STAGE IB CULTURAL RESOURCE SURVEY
OF THE
EAST SIDE PROJECT
STATEN ISLAND INDUSTRIAL PARK
BLOOMFIELD, STATEN ISLAND, NEW YORK

by

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of

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New York, New York

FEBRUARY 1983

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I. INTRODUCTION

A. PROJECT DESCRIPTION

The New York City Public Development Corporation and the Port Authority of New York and New Jersey propose to develop a 415-acre portion of the Staten Island Industrial Park in the Bloomfield area of Staten Island, New York. This development is called the East Side Project and will include an office park, designated wetlands, and a satellite communications center or teleport.

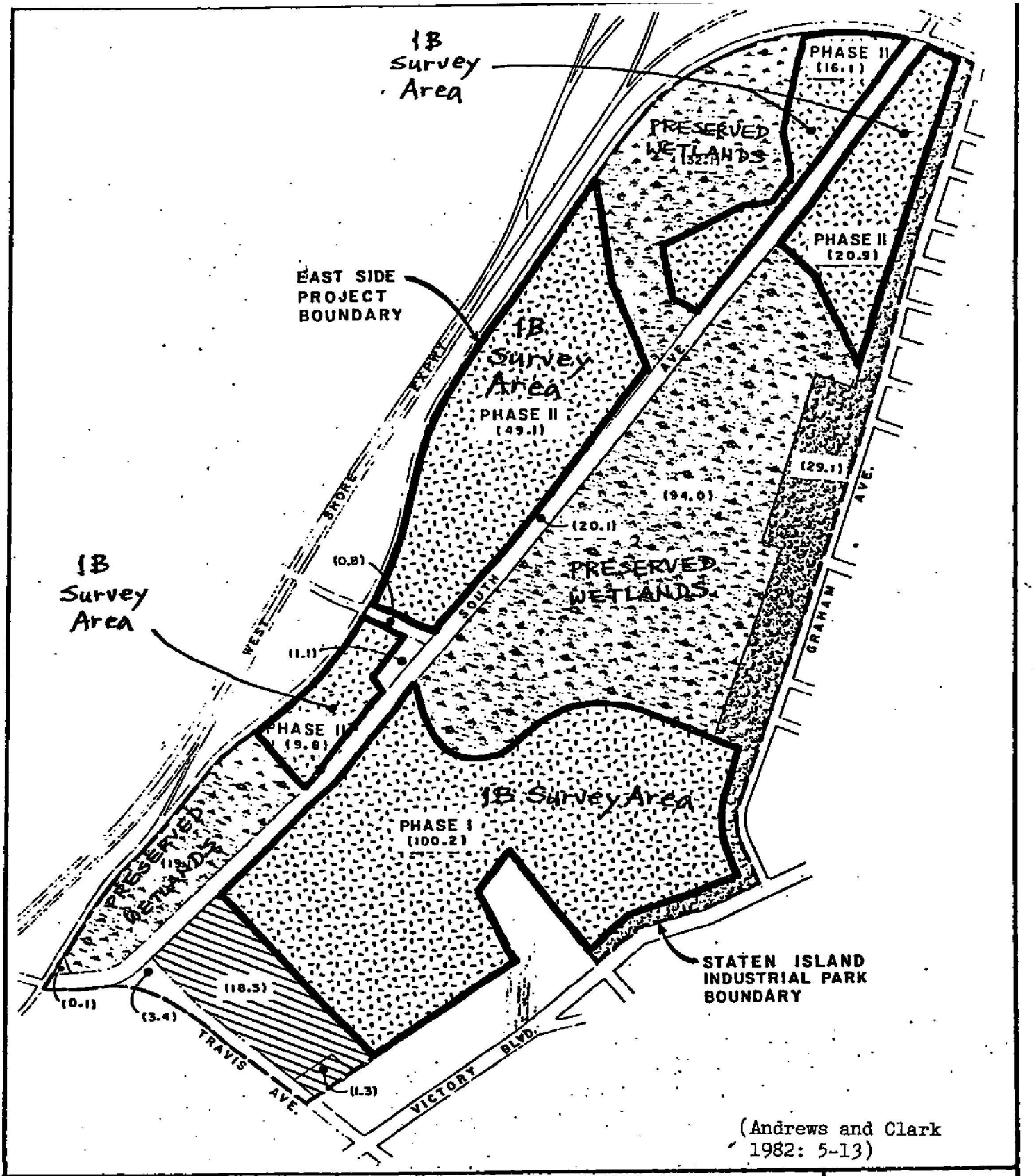
This report presents the results of archeological reconnaissance and testing of the East Side Project site conducted in the winter of 1982-83 by Historic Conservation and Interpretation, Inc. (hereafter HCI) of Newton, New Jersey for Andrews and Clark, Inc., consulting engineers, of New York City. Edward J. Lenik of HCI was the Primary Investigator on this stage IB cultural resource survey, and Brian Morrell served as the Field Crew Chief. The project was under the general supervision of Primary Investigator Edward S. Rutsch, President of HCI.

B. STUDY AREA

The study area consists of approximately 200 acres of land, proposed for development, within the 415-acre East Side Project site (see Figure 1). It includes five parcels of land delineated as

"IB Survey Area" on the map entitled "PROPOSED LAND USE FIGURE 5-1" and furnished to HCI by Andrews and Clark (see Figure 2). Several areas on this map are designated as "Preserved Wetlands" and are excluded from this Stage IB Cultural Resource Survey.

The project area is located in the northwestern quadrant of Staten Island, New York. Specifically, it is located immediately south of the Staten Island Expressway (I-278) and east of the West Shore Expressway (Route 440). The East Side Project site is bounded by the Service Road of the Staten Island Expressway on the north and the West Shore Expressway on the west, by Travis Avenue on the south, and Victory Boulevard and Graham Avenue on the east. A complete description of each section within the study area follows later in this report.



(Andrews and Clark 1982: 5-13)

EAST SIDE PROJECT

Staten Island Industrial Park

Environmental Impact Statement

PRESERVED WETLAND
BUFFER STRIP
ROADWAY R.O.W.
EXCLUDED LAND
DEVELOPED LAND
(3.4) NO. OF ACRES

0 900 FEET

FIGURE 2.
PROPOSED LAND USE

FIGURE 5-1

II. PREHISTORIC SUMMARY

Documentary research pertaining to the East Side Project zone, as well as various site files, indicates that the areas along the tidal marshes of the Kill Van Kull and Arthur Kill were apparently extensively inhabited by aboriginal peoples in prehistoric times. A previous Stage IA Cultural Resource Survey of the study area revealed the existence of four prehistoric sites in and around the project zone (Rutsch and Hartman 1982: 9). Two of these sites were identified as being within the study area and they are designated as the Bloomfield or Watchogue Site (New York State Museum Number 4596), and the Bull's Head Site (New York State Museum Number 4597).

The research report by Rutsch and Hartman indicates that the Bull's Head Site is located "on a knoll just north of Victory Boulevard" (Rutsch and Hartman 1982: 9). The site was reported by Arthur C. Parker in 1920, who stated that graves were allegedly found on this site, and that it was known locally as the "burying ground." In addition, several grooved stone axes were reportedly found on this site, but Parker's attempts to locate any "remaining graves" were apparently unsuccessful (Parker 1920: 682).

The general location of the Bloomfield or Watchogue Site is shown on a portion of the U.S.G.S. map, Arthur Kill Quadrangle, 7.5 minute series 1966, by Rutsch and Hartman (Rutsch and Hartman 1982: 10). This site's approximate location is south of present-day Merrill Avenue and

west of South Avenue. Once again, Parker's previous study stated that a variety of artifacts--such as grooved axes, pottery, pipes, and projectile points--had been found on all the dunes and sandhills in the area (Parker 1920: 681). All of these reported artifacts were surface finds.

III. ARCHEOLOGICAL RESEARCH DESIGN

> An archaeological site is an accumulation of materials that are the residues of cultural activity. These accumulations can provide both qualitative and quantitative information about the activities, ecology, and cultural and chronological relationships of the human occupants of the site. (Ragir 1975: 283)

The stated purpose or research design of this Stage IB Cultural Resource Survey was fourfold:

1. To specifically locate on the landscape two prehistoric sites which were reported to be within the study area. These two sites are known as the Bloomfield Site (NYSM #4596) and the Bull's Head Site (NYSM #4597).

2. To assess the nature and extent of prehistoric occupation at these two sites.

3. To locate, recover, and record cultural features and artifacts through surface collecting and archeological sampling, and

4. If prehistoric cultural remains were present, to assess their potential "significance." Significance is defined as possessing a quality or qualities which meet one or more of the criteria for inclusion on the National Register of Historic Places.

The archeological sampling strategy that was developed to implement the above research design had to address several problems or conditions that were present at the East Side Project site. First,

the field survey had to contend with a forested environment in most of the 200-acre study area. Secondly, much of the study area has undergone considerable disturbance. That is, several sections have been extensively bulldozed, developed with private homes, garages, commercial establishments and horse stables, and filled in or dumped upon by building debris, junked cars, and a host of domestic garbage. Finally, the reported existence of two prehistoric sites within the project area called for a sampling strategy that would include an intensive look at these potential culture-bearing zones. These potential sites were of course impacted or affected by many of the problems cited above.

The field survey and sampling strategy utilized at the East Side Project site included the following methods and procedures:

First, an intensive pedestrian survey was conducted in all areas of the site. We anticipated making a surface collection of prehistoric artifacts which would be extremely helpful in specifically locating the Bloomfield and Bull's Head sites and function as a guide in the sub-surface testing which was to follow. Unfortunately, the local environmental problems described earlier made it impossible to conduct a complete walk-over survey of the region. We were faced with the problem of low surface visibility due primarily to dumping activity and the forest ground cover of leaves and brush. However, all open areas were examined closely on a continuing basis during the course of this project. Shovel clearing of undergrowth was conducted where necessary to enhance our examination of the ground surface.

Secondly, a series of test trenches excavated by a backhoe was dug at various locations within the project area. These trenches were 10 feet long by 3 feet wide and were excavated into culturally sterile soil. The purpose of these backhoe trenches was to determine the soil stratigraphy in the various sections of the site and, of course, to uncover evidence of prehistoric occupation. A total of ten backhoe trenches were dug at strategically located points within the project zone.

Third, test excavations were conducted throughout the project area in a planned, systematic manner at two levels of intensity. The reported locations of the Bloomfield and Bull's Head sites were shovel tested more intensively than other areas. The tests at these presumed sites were systematically spaced at 50-foot intervals. In all of the other undisturbed areas, the shovel testing was conducted at 100-foot intervals. In addition, many random test pits were excavated throughout the project site where physical conditions dictated such an approach, or where there seemed to be the possibility of the presence of cultural material. The subsurface shovel tests measured 12 inches by 12 inches and were excavated to culturally sterile depths, or to those dictated by physical factors such as roots, rocks, or water. The soil from each test was carefully hand troweled to recover any cultural material. A total of 625 subsurface tests were dug at the East Side Project site.

Finally, the cultural material recovered from the study area was washed, numbered, catalogued, and analyzed. The results of the pedestrian survey, shovel testing, and artifact analysis will be discussed later in this report.

IV. ENVIRONMENTAL SETTING

The surface of Staten Island is made up of many varied and interesting landforms. Each land feature originated through the action of some past or present geological process which has led to the establishment of a variety of indigenous flora and fauna. In turn, these factors have had a tremendous impact on early man and his settlement and subsistence patterns in this area. The following narrative is a synopsis of the major natural environmental characteristics of the study area. A more detailed description of each project section is presented in the field study portion of this report, Section V.

Geologically, the East Side Project site is considered a part of the Coastal Plain physiographic province. The bedrock geology is Triassic sedimentary sandstone of the Newark Series which is covered with Pleistocene glacial sediments and marine alluvium (Leng and Davis 1930: 4). An outcrop of Palisades Diabase intrudes into the strata near the intersection of Travis Avenue and Victory Boulevard. Loose red, orange, tan, gray, and black sands and clay are found in the area. Continental glaciation affected the surficial geology of Staten Island as the glacier advanced and receded at least three times in the last million years. The study area consists of glacial outwash composed of material deposited by streams from the melting ice sheet. These deposits are present throughout the area where rivers and streams carried debris from the receding glacier. An occasional glacial erratic or boulder was encountered in

the southern and eastern portions of the site, and these boulders are a vivid reminder of the former presence of the glacier.

The topography of the East Side Project site appears to be generally low and flat, but the terrain does slope gently from the southeast to the north and west. The highest elevations occur along the southeastern border of the site, along Victory Boulevard, where the elevations are approximately 42 feet above mean sea level. Along the eastern edge, bordering on Graham Avenue, elevations occur as high as 28 feet above mean sea level. In general, much of the northern and western portions of the project area are wetlands with very low elevations ranging from 2 to 4 feet above mean sea level.

The modern terrestrial plant habitats of this section of the outer Coastal Plain consist of salt marshes, fresh water marshes, swamps and floodplains, and uplands and flats that are not excessively drained. In the open and wet areas of the site, the dominant vegetation is reed grass or *Phragmites australis*. Many sections of the project area are densely wooded with oak, maple, birch, and beech trees as the predominant species. These trees, for the most part, are of fairly recent growth. The land was undoubtedly "wooded off" or cleared of trees several times in historic times during the settlement and establishment of homes, communities and the development of agricultural activities.

During this Stage IB study, pheasants, woodcock, and a variety of other bird species were observed in the study area. Rabbit tracks and droppings were also observed in the southern portion of the site together with rodents such as rats and mice. The latter are probably the predominant form of mammals at the site, particularly near developed areas and where dumping has taken place.

V. FIELD SURVEY

A total of 625 subsurface tests plus 10 backhoe trenches were excavated throughout the East Side Project site. A list and description of each of these tests is presented in the Appendix of this report. In addition, an intensive pedestrian survey or field reconnaissance was conducted in the entire project area.

The study area was divided into seven sections or units in order to 1) obtain maximum data from the site; 2) develop specialized field tactics in response to local environmental conditions; and 3) to facilitate the recording of data and reporting of the results. Therefore, the analysis and results of our field work is presented in a section-by-section format below.

A. SECTION I: THE BULL'S HEAD SITE

This section is the largest portion of the study area, consisting of 100.2 acres. It is bounded on the north by a "Preserved Wetlands" area, by Graham Avenue and Victory Boulevard on the east and southeast, Travis Avenue along its south side, and South Avenue on the west side.

In general, the northeasterly half of Section I is the most disturbed portion of the site. That is, much of it has been cleared of trees, farmed at one time, bulldozed, dumped upon, and developed to some extent (see Figure 3). This was unfortunate since it was this area that was considered to be the prime culture-bearing zone and the probable location of the Bull's Head prehistoric site.

FIGURE 3. General view looking northeast at the northeast portion of Section I, the reported location of the Bull's Head site. (Edward Lenik, photographer, 1983.)

An inflated tennis court was constructed and is currently in operation in the northeast corner of the site. The land immediately surrounding the tennis courts is low, swampy and disturbed. There is a small wooded area to the west and southwest of the tennis courts that is also low and wet ground.

The major portion of the northeasterly segment of Section I is open, flat ground covered with Phragmites, ryegrass, milkweed, scattered white birch trees, and low growing shrubs such as swamp laurel. Red sumac grows throughout this area as well, and one apple tree was observed in the middle of the field. The historical maps indicate that this area was a farm at one time. In fact the farmhouse and its outbuilding still stand, empty and abandoned, just off Victory Boulevard. Furthermore, there appears to be some slight traces of plow furrows or ridges at the northern end of this open field that have somehow survived undisturbed.

There are numerous dump sites throughout the northeastern half of Section I. We observed many piles of earth, building debris, domestic garbage, and scattered blocks of concrete, rock, wood, and a variety of trash (see Figure 4). Historical research, conducted by Andrews and Clark, indicates that the topography has been changed due to the dumping of fill materials (Andrews and Clark 1982: 4-51). This fill was placed on the northeastern side in connection with the residential development along Graham Avenue, and contained construction debris. Junked cars, trailers, and automobile tires abound in the area as well. Also, the land is scarred and crisscrossed with dirt roads and bulldozer cuts. These conditions made archeological testing and reconnaissance extremely difficult. In fact, test excavation was impossible throughout much of the area.

FIGURE 4. Looking west at one of several dump sites located within Section I. (Edward Lenik, photographer, 1983.)

The southwestern half of Section I is almost entirely wooded (see Figure 5). The land immediately behind the private properties which border on Victory Boulevard is higher ground and contains an older stand of trees, some of which measure two or more feet in diameter. In the remaining portion of this site the trees are of more recent growth. The predominant species of trees are red oak, white oak, maples, and white birch, and there are some thickets or cat briars throughout the area.

A portion of the southwestern segment of Section I has also been disturbed and dumped upon. For example, a large area immediately behind the Nansen Picnic Grounds has been excavated and bulldozed into a deep open pit. Also, the southern edge of Section I has been extensively bulldozed, and large piles of earth, building debris, junked cars, and garbage are found here. Once again, the original topography of the land was changed along the southern border of the site as a result of the dumping of fill materials. According to the New York City Department of Sanitation, "clean fill" material was used for the expansion of the ballfields in the vicinity of the United Parcel Service property on Travis Avenue (Andrews and Clark 1982: 4-51).

Junked or abandoned automobiles are found scattered throughout all wooded sections of the project area, especially in Section I. A considerable amount of garbage has been dumped along the western edge of Section I where it borders on South Avenue. Several dirt roads and trails also crisscross through the southwestern segment of Section I. Archeological reconnaissance and testing was difficult to perform here as well, and virtually impossible in some portions of the site.

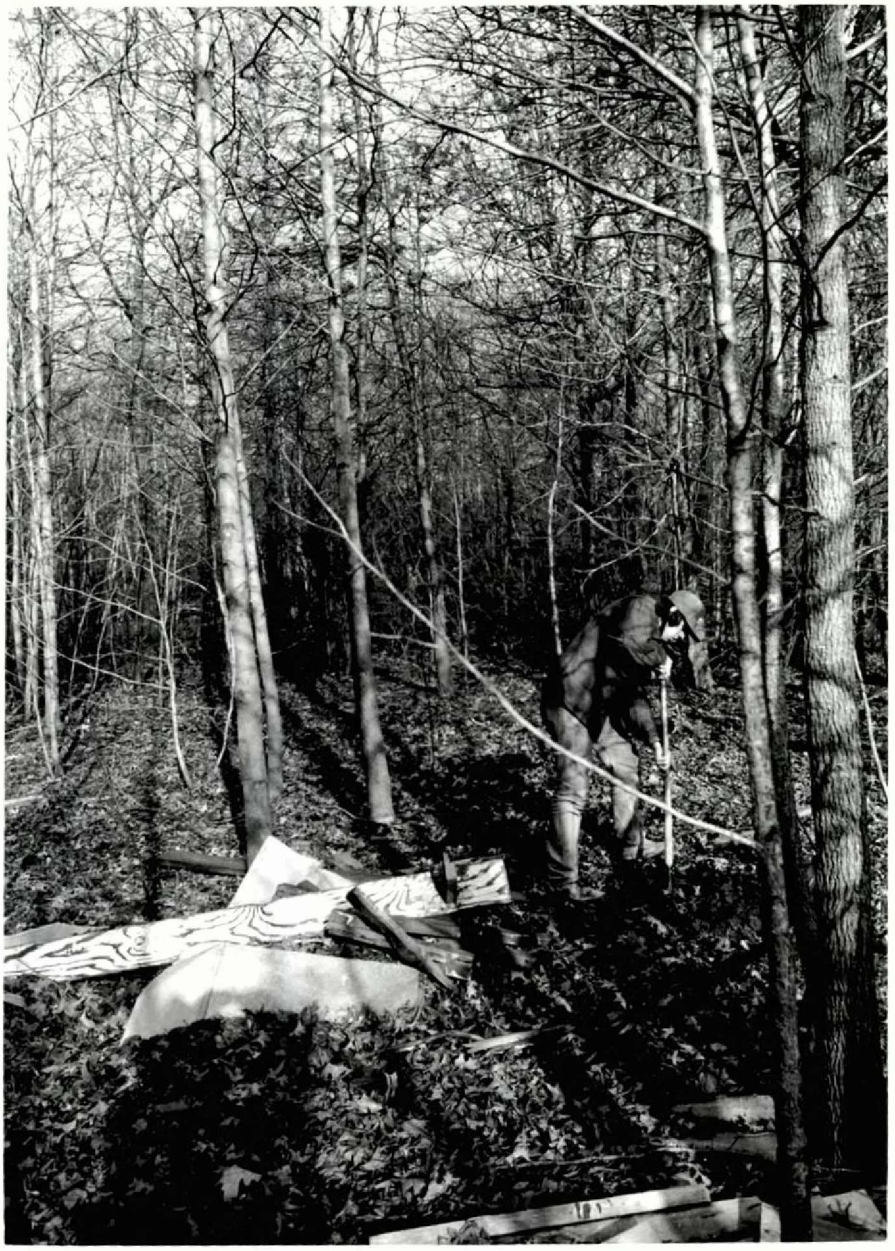


FIGURE 5. Westward view of shovel test being excavated in southwest portion of Section I. (Edward Lenik, photographer, 1983.)

Four backhoe trenches were dug within Section I. Two of these trenches were placed in the northeastern half and two in the southwestern half. The description and location of these trenches is as follows:

Trench No. 1 was "L" shaped, measuring 10 feet long on each leg, 3 feet wide, 3½ feet deep, and was located in the open field in the northeast section (see Figures 1, 6, and 7). The soil profile encountered in this trench consisted of a thin layer of brown topsoil, 2 inches deep, underneath which there was a stratum of red clay containing an occasional quartzite pebble. Red sandstone was encountered at the bottom of the trench. No cultural material was recovered in this test.

Trench No. 2 was also dug at the north end of the open field (see Figure 1). It was excavated in an "L"-shaped manner as well, and measured 10 feet X 3 feet X 4 feet. The topsoil cover in this trench varied in thickness from 8 inches to 14 inches. A tan to tan/orange-colored sandy soil was found immediately beneath the topsoil. Underlying this stratum was a third soil layer consisting of gray and red clay (see Figures 8 and 9). No artifacts were recovered from this trench.

Trench No. 3 was excavated in the wooded area just to the east of South Avenue (see Figure 1). This trench was a single, 15-foot-long cut, that was 3 feet wide and 3½ feet deep. It was not possible to dig L-shaped trenches in the wooded areas because of the difficulty in maneuvering the backhoe around trees. Two soil strata were encountered in Trench No. 3: a 4-inch-thick layer of black topsoil, underlain by red clay (see Figure 10). No artifacts were recovered from this trench.

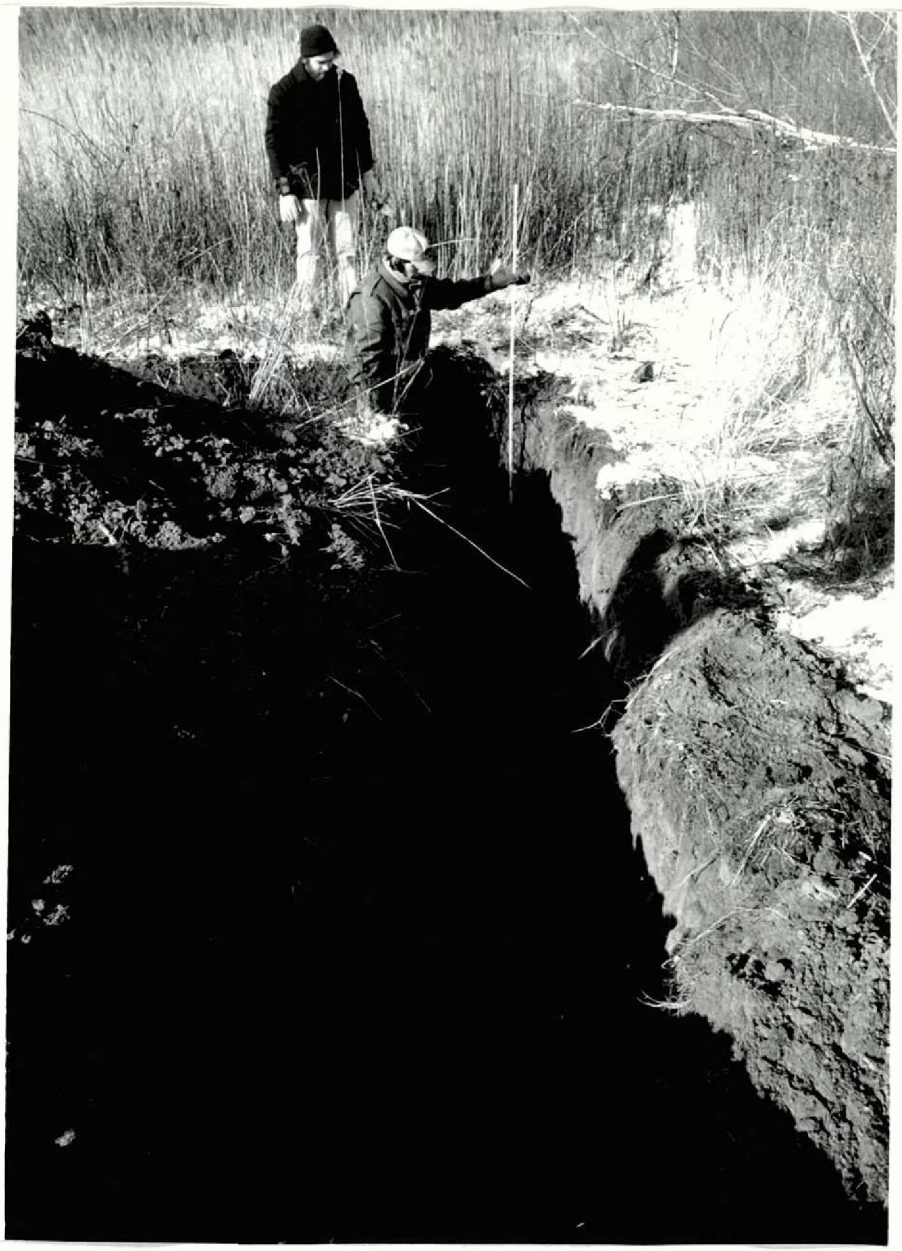
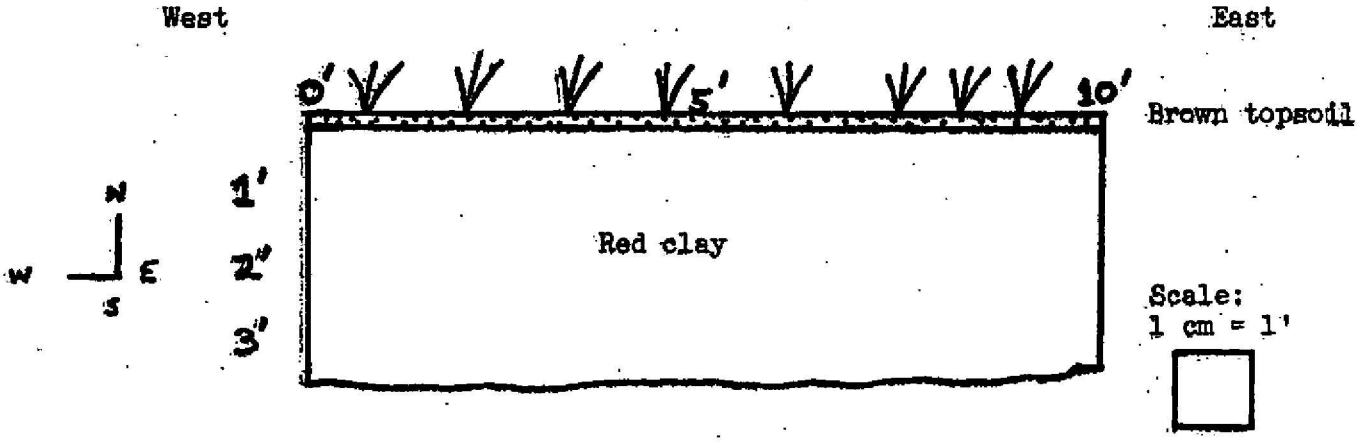


FIGURE 6. Looking north at L-shaped backhoe trench No. 1 located in the northeast sector of Section I. (Edward Lenik, photographer, 1983.)

East Side Project
Staten Island Industrial Park

FIGURE 7. Trench 1 Profile
12/13/82



Location and Description:

Trench 1 is an L-shaped test located in Section I on a high knoll overlooking wetlands to the north. The ground cover is grass. The topsoil is thin (0-2") and brown in color. The red clay stratum contains occasional quartzite pebbles. Red sandstone was encountered at the bottom of the trench. The north-south profile of the trench is identical to the profile above. No artifacts were recovered.

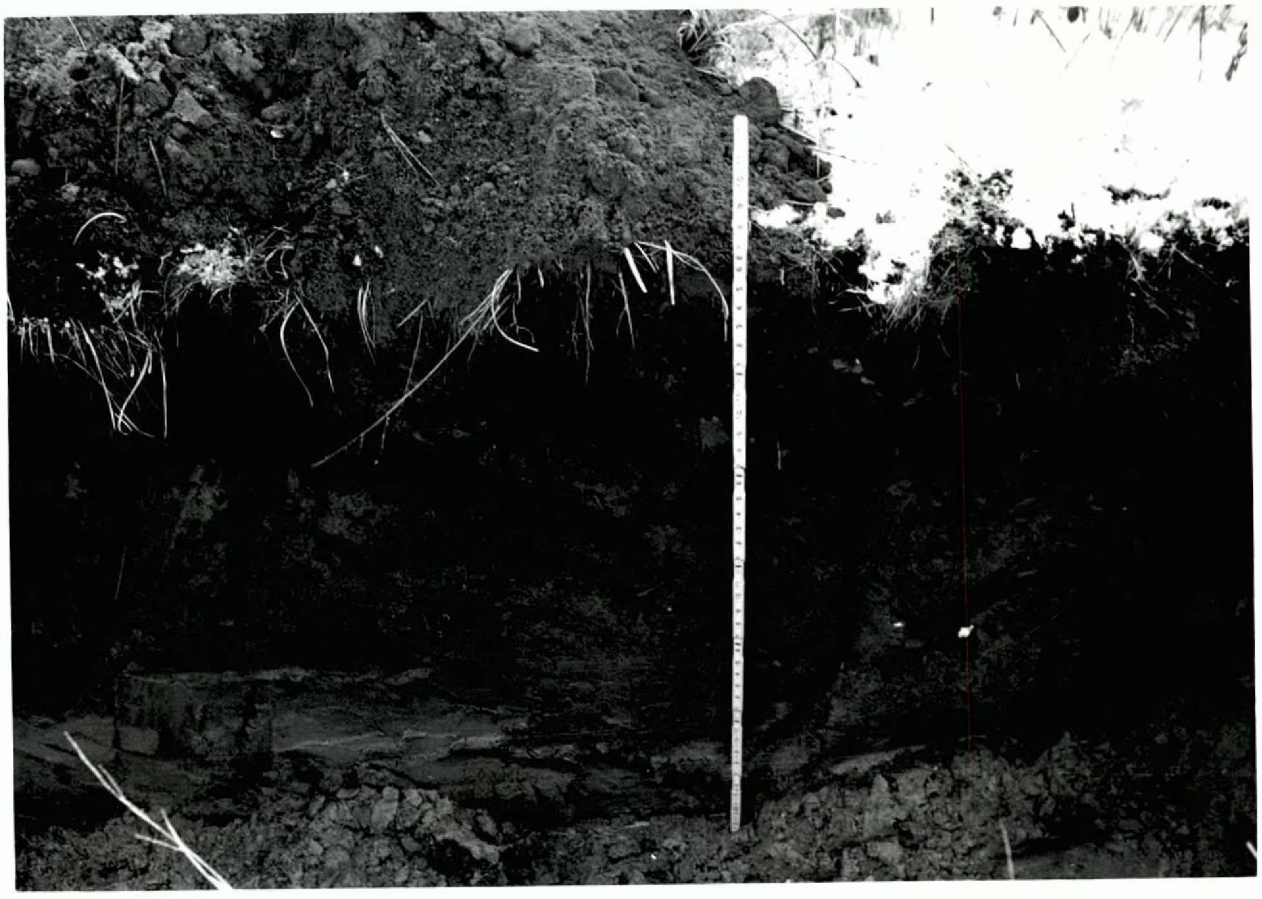


FIGURE 8. Looking east at stratigraphic profile of Trench No. 2. (Edward Lenik, photographer, 1983.)

East Side Project
Staten Island Industrial Park

FIGURE 9. Trench 2 Profile
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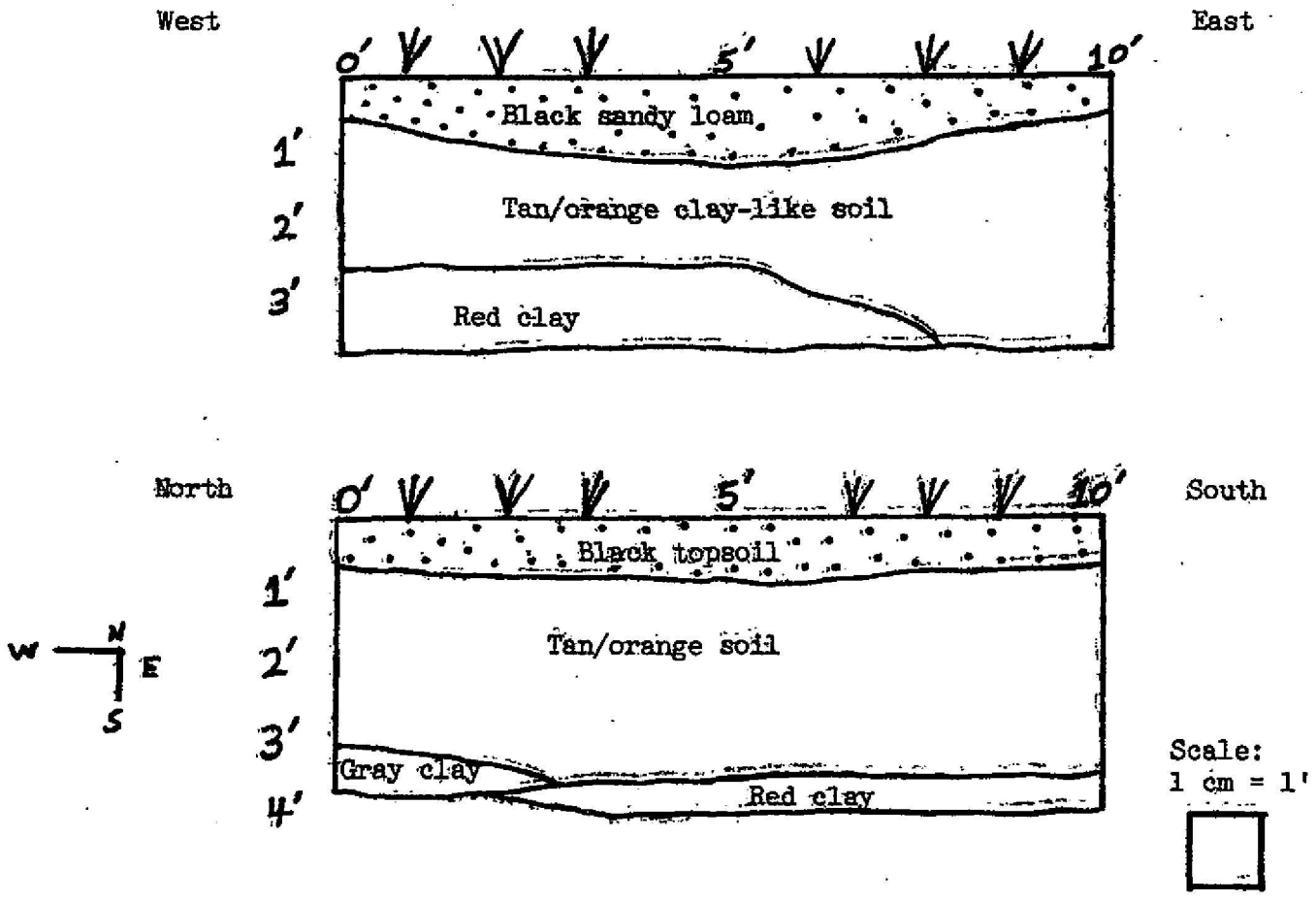
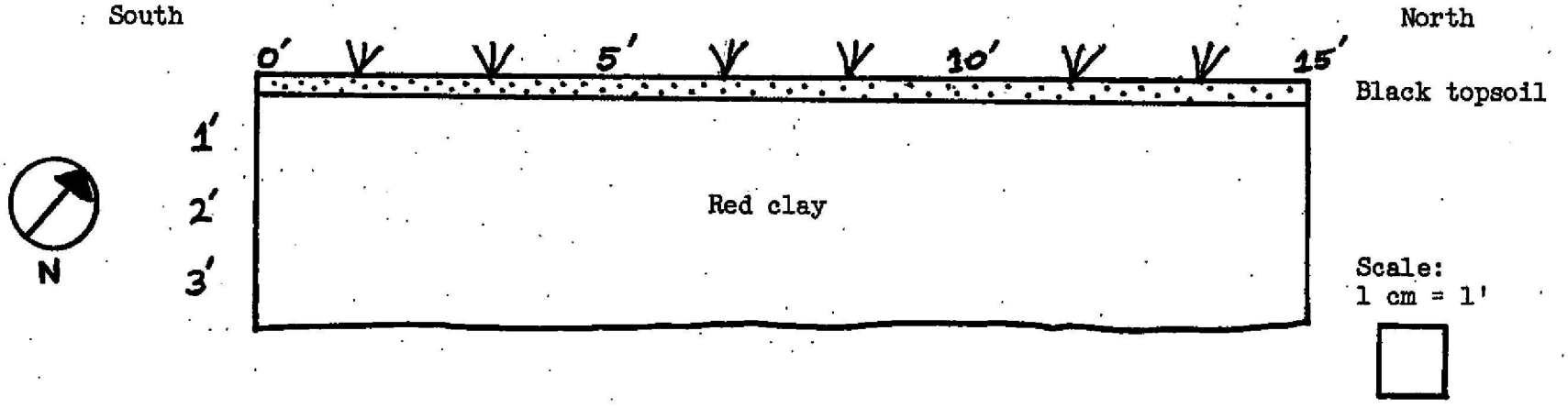


Location and Description:

Trench 2 is an L-shaped test located in Section I on a high, flat area overlooking the wetlands. This area was probably former farm land. Ground cover is heavy grass. Depth of topsoil varies from 8 to 14 inches thick. No artifacts were recovered.

East Side Project
Staten Island Industrial Park

FIGURE 10. Trench 3 Profile
12/13/82



Location and Description:

Trench 3 is located in Section I, east of South Avenue and north of a ballfield. It is within a heavily wooded area and was extended to a length of 15 feet. The uppermost layer consists of a 0-to-4-inch-thick layer of black topsoil. No artifacts were recovered.

Trench No. 4 was also placed in the wooded southwestern portion of Section I (see Figure 1). This trench was 10 feet long, 3 feet wide, 3 feet deep, and consisted of three soil strata (see Figure 11). There was a 3-inch-thick upper layer of leaf mulch and black topsoil, underneath which was a tan/brown sandy soil extending to a depth of 15 inches. From 15 inches to 36 inches was found a hard-packed red clay. No cultural material was found in Trench No. 4.

The total number of subsurface shovel tests excavated throughout Section I was 288. Of this number, 106 tests were excavated within the northeastern segment of the section in the presumed location of the Bull's Head Site. For the most part, these 106 tests were closely spaced at 50-foot intervals. Some, however, were dug at random in undisturbed areas of this zone.

A variety of soil conditions was encountered in the tests excavated in the northeastern segment of Section I. Some of the tests revealed that a great deal of ground disturbance had occurred at this site. For example, some areas have been entirely stripped of topsoil cover, and several tests revealed evidence of soil mixing and dumping. However, in general, only two strata were encountered in most of these tests. The thickness of the black topsoil cover varied from test to test--ranging in thickness from zero to as much as 14 inches. The color and texture of the subsoil varied also, consisting of red clay, or a tan/orange-colored sand, or a tan-to-gray-colored sand.

Several modern or historic period artifacts were recovered from the tests excavated in the northeastern portion of Section I. Numerous pieces of coal were found in many of the tests, as well as small brick

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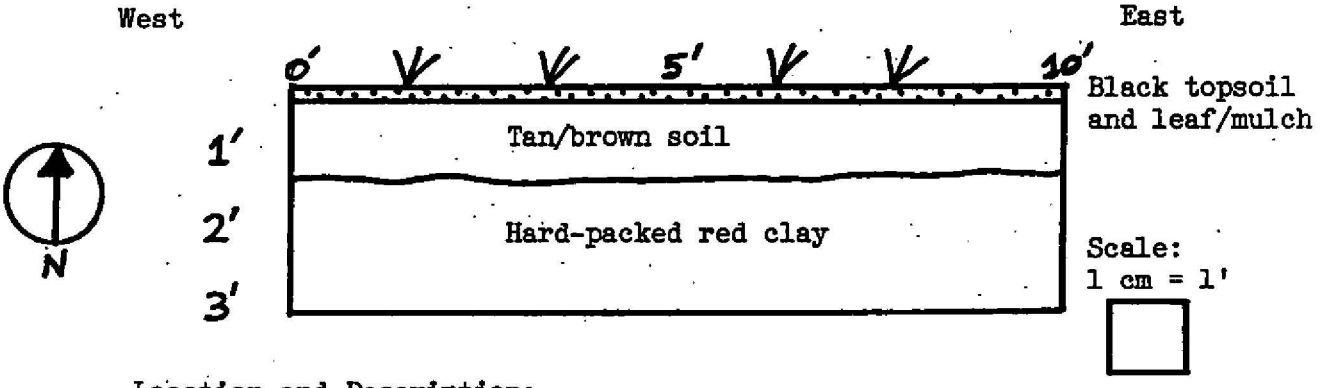
Staten Island Industrial Park

FIGURE 11. Trench 4 Profile
12/14/82



Location and Description:

Trench 4 is located just west of the north central part of Section I. In a wooded area, the site has a 0-3" layer of leaf mulch and topsoil beneath which is a tan/brown soil extending from 3 to 15" deep. No artifacts were recovered.

fragments, sewer pipe fragments, mortar, pieces of wood, shell and plastic, roofing tarpaper, and small pieces of unidentifiable rusted iron. All of these items date to the twentieth century, and they were recorded and later discarded. A few artifacts were recovered that were able to be dated to an earlier period, and these were retained for analysis. A description of the tests and associated artifacts from the northeast segment of Section I follows. Refer to Figure 1 for test locations, and to the Appendix (Section VIII) for a complete listing of test profiles.

Test Pit 1, located in the open field, produced a number of artifacts in the 12-inch-thick topsoil layer. In this stratum, we found one piece of coal and one fragment of brick, which were discarded. We also recovered one fragment of amber-colored bottle glass, one fragment of ironstone china, and one fragment of whiteware. The ceramic sherds are of a type that date from the nineteenth to the twentieth centuries. In addition, a piece of English flint was recovered from the topsoil of this test, and another fragment was surface collected from the dirt road which is located just to the east of this test. A few other fragments of English flint were also observed imbedded in the roadbed near the north end of Section I. This English flint has a lustrous black color with a thin outer layer of white chalk. According to Noel-Hume, this flint comes from beds of chalk found only in England (Noel-Hume 1969: 219). Hence, it had to be carried or brought into the East Side Project site. The bottom stratum of test 1 was a sterile layer of red clay that extended to a depth of 17 inches.

Test Pit 20 was also located in the open field of Section I. Stratum A of this test was black topsoil which extended to a depth of 10 inches. One piece of coal and a bottle fragment were recovered from this layer. The bottle fragment was a portion of the base that had the number "16" molded on the bottom, and two letters from a name on the side panel, "ER..." This bottle fragment probably dates to the late nineteenth century. Soil stratum B was red clay that extended from 10 to 17 inches and was devoid of cultural material.

Test Pit 49 was located at the upper end of the open former farm field. Stratum A was a 7-inch-thick layer of dark brown loam that contained two brick fragments, and one piece of whiteware with a trace of blue transfer print design. This whiteware fragment dates from the nineteenth to the early twentieth centuries. Stratum B was a sterile tan/orange-colored sand that was excavated to a depth of 16 inches.

Test Pit 65 was located along the eastern edge of the open field. Stratum A was a dark brown sandy loam that extended to a depth of 11 inches. This topsoil layer contained one piece of coal, cinder, and brick, and a fragment of plain, undecorated whiteware. Stratum B was a tan/orange-colored sand that extended from 11 to 17 inches and was sterile.

Test Pit 86 was located in a wooded area immediately to the north of the inflated tennis courts. The upper stratum was a 4-inch-thick layer of black topsoil that was devoid of cultural material. Stratum B, however, was tan/orange sandy soil that contained one iron horseshoe fragment, and was excavated to a depth of 19 inches.

Test Pit 89 was located in a wooded area to the west of the inflated tennis courts. The upper soil layer, stratum A, was black topsoil that was 3 inches deep and devoid of cultural material. Stratum B was a tan-colored sandy soil that extended from 3 inches to 10 inches. Stratum B contained 2 pieces of coal, 1 piece of cinder, and 2 fragments of clear pressed glass. Stratum C was a tan/orange sand that was excavated to a depth of 22 inches and was sterile.

Test Pit 90 was also in the wooded area to the west of the inflated tennis courts. Stratum A was a 4-inch-thick layer of black topsoil that contained 6 pieces of coal. Stratum B was tan-colored sandy soil that was excavated to a depth of 20 inches. One iron horseshoe fragment was recovered from this soil layer.

Test Pit 94 was located in the wooded area west of the inflated tennis courts. Soil stratum A was a 3-inch-thick layer of black topsoil that contained one fragment of undecorated whiteware. Stratum B was tan/orange-colored sand that continued to the limit of this test at 22 inches.

A total of 182 shovel tests were excavated in the forested southwestern segment of Section I. In these tests, the black topsoil cover and humus ranged in thickness from 2 to 6 inches. Underneath the topsoil was generally found a browish-colored sandy loam. The lowest stratum, however, varied in color and texture such as red clay, or a tan/orange-colored sand, or a gray sand, red or orange-colored sand, or mixtures of several of these colors. A few artifacts of historical or recent origin were recovered in this series of tests. One prehistoric artifact was found as well.

Test Pit 150 was located in a wooded strip of land which borders on the south side of Nansen Park Picnic Grounds, which fronts on Victory Boulevard. Stratum A, a black topsoil and humus layer extended to a depth of 6 inches. We recovered one gray chert flake from this soil layer. This prehistoric artifact is the discarded waste material from the aboriginal tool making or refurbishing process. Stratum B was a sterile red clay layer that was excavated to a depth of 21 inches.

Test Pit 154 was also in the wooded area on the south side of the Nansen Park Picnic Grounds. Stratum A was a black topsoil and humus layer that extended to a depth of 5 inches. One piece of thin, dark green glass, and one fragment of clear bottle glass were found in this soil layer. Stratum B was a brownish-colored sand that was excavated to a depth of 19 inches and did not contain any artifacts.

Test Pit 186 was located along the western edge of Section I, just off South Avenue. Stratum A was 5 inches thick, and was a black topsoil and humus layer. One piece of coal and 1 silver spoon were recovered from stratum A. The silver spoon was marked on its handle "PAT. 1924" and "1835 R. WALLACE." Stratum B was a tan/orange-colored sand that was sterile, and was excavated to a depth of 27 inches.

A small building foundation was found in the wooded area of Section I some 150 feet to the east of South Avenue (see Figure 12). This foundation was a poured concrete structure that measured 36 by 18 feet. Piles of building debris, garbage, and several abandoned automobiles litter the entire perimeter of this former structure. Its function could not be determined, but it undoubtedly dates from this century.

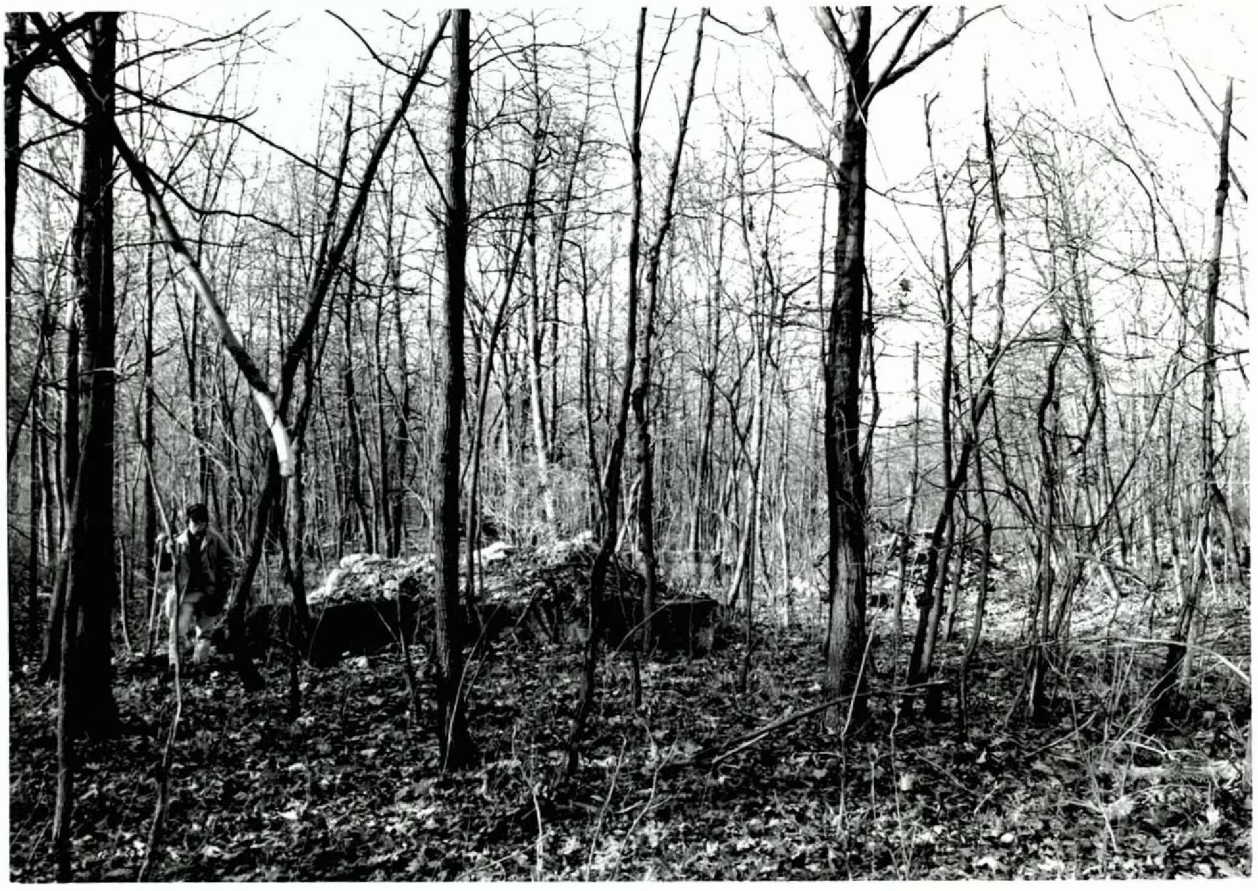


FIGURE 12. View looking south at shovel testing adjacent to 20th century concrete foundation in Section I. (Edward Lenik, photographer, 1983.)

In summary, although Section I was intensively tested and surface collected, the results failed to confirm the existence of the Bull's Head Site which was thought to be located in the northeastern portion. Only one stone flake of the prehistoric period was found near the southern end of this section. This, however, constitutes very meager evidence of any former prehistoric occupation in the area. The historic period artifact finds are interesting but not significant in terms of their context and meaning. The two horseshoe fragments, for example, which were found in the northeastern portion of Section I, may relate to the former agricultural activity which took place in this area of the site. The silver spoon, although interesting and intriguing, appears to be an isolated find unrelated to any historical period structures or features. Finally, the pieces of English flint were obviously brought in and simply dumped or discarded at the site. Therefore, Section I can with confidence be characterized as culturally non-sensitive.

B. SECTION II

Section II of the archeological survey is a 10.9-acre parcel of land that is bounded by Bridge Avenue* on the north, South Avenue on the east, a preserved wetlands area on the south, and a dirt service road on its westerly side that parallels the West Shore Expressway. This section is primarily a mixed hardwood forest with a small freshwater swamp located in the center of the section near its southern boundary. A considerable amount of dumping has taken place along both

* Note: Street maps identify this road as Vernon Avenue. However, the present road signs read Bridge Avenue.

the northern and eastern edges of Section II (see Figure 13). Furthermore, the northern edge, which borders on Bridge Avenue, has been badly disturbed by road construction activity and the topography has been scarred and altered in a strip of about 50 feet along the road.

The mixed hardwood forest in this section consists of red oak, black oak, white oak, maples, and a scattering of white birches. At the northern end of Section II we encountered a considerable amount of brambles, catbriars, and climbing vines. Dense Phragmites occur along South Avenue. In general, the trees in this section are small and numerous, and together with the dense ground cover made archeological testing extremely difficult.

Forty subsurface shovel tests and one backhoe trench were excavated in Section II. Most of the shovel tests were placed at 100-foot intervals but several were dug at random based on our assessment of the local topography. The backhoe trench was excavated in a spot readily accessible to the machine, some 200 feet south of Bridge Avenue and 50 feet west of South Avenue.

Backhoe Trench No. 5 was 10 feet long by 3 feet wide by 4 feet deep (see Figures 1 and 14). Stratum A was a thick layer of black topsoil that extended to a depth of 12 inches. Stratum B was a tan/orange-colored sand that went from a depth of 12 to 20 inches. Stratum C consisted of a gray colored sand which was excavated to a maximum depth of 48 inches, at which point water began to seep into the trench. No artifacts were recovered.

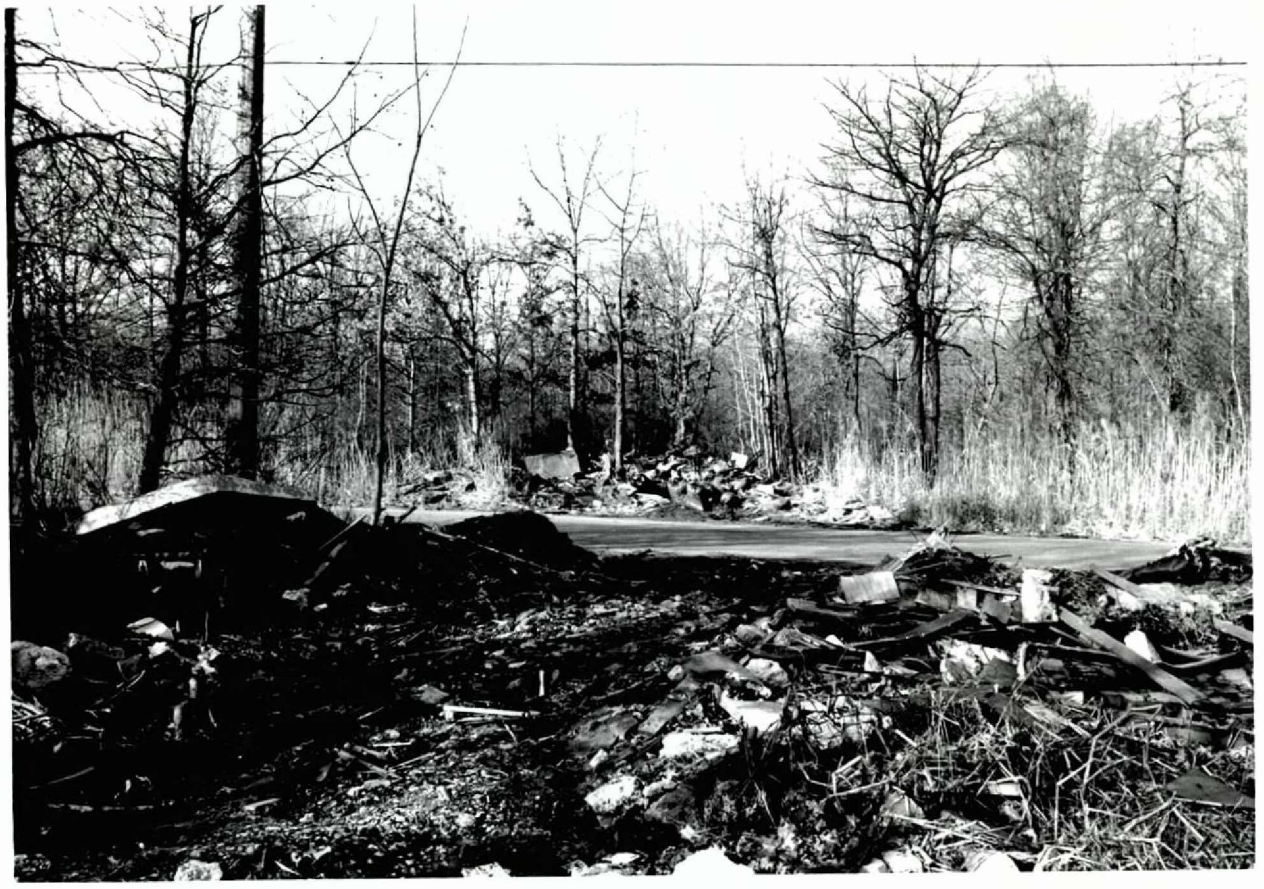


FIGURE 13. Looking west across South Avenue toward Section II and garbage dumping area. (Edward Lenik, photographer, 1983.)

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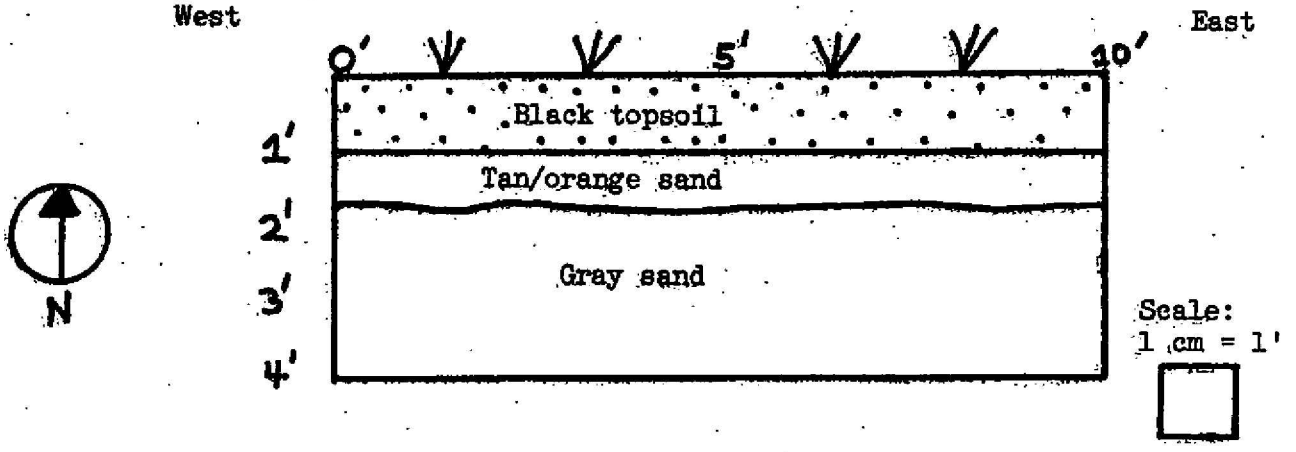
FIGURE 14. Trench 5 Profile
12/13/82



Location and Description:

Trench 5 is located in Section II, west of South Avenue and south of Bridge Street. A thick 12" layer of topsoil was encountered over an 8" layer of tan/orange sand and a lower stratum of gray sand. Water was hit at the bottom of the test. No artifacts were recovered.

The shovel tests excavated within Section II revealed a variety of subsurface soil conditions or strata. The topsoil cover in this section was black and ranged in thickness from 3 to 14 inches. Stratum B, underlying the black topsoil and humus, was generally a brown, or gray/black-colored sandy soil. Stratum C was a tan/orange-colored sand. In some places water was encountered at depths of between 16 and 18 inches.

Cultural remains were encountered in only one of the 40 tests excavated in Section II. Four small fragments of clear glass were recovered from the black topsoil layer, stratum A of Test Pit 340. These fragments of glass were probably from a bottle. However, the pieces did not possess any distinguishing characteristics and were considered non-diagnostic and were discarded. Stratum B of this test was a black to gray-colored sand that extended from 6 to 10 inches in depth and was sterile. Stratum C was tan/orange sand that went to a depth of 15 inches when work was halted because water was encountered.

The results of our backhoe trench, shovel tests, and pedestrian survey indicate that Section II is culturally sterile and non-sensitive.

C. SECTION III: THE BLOOMFIELD SITE

Section III is a parcel of land bounded by Merrill Avenue on the north, South Avenue on the east, Bridge Avenue on the south, and the East Service Road (sometimes called Glen Avenue) of the West Shore Expressway on the west (see Figure 1). A gas and petroleum pipeline right-of-way cuts through the center of Section III in an east-to-west direction. The Bloomfield or Watchogue prehistoric site was reportedly located within this section.

A considerable portion of Section III has been disturbed, developed, and utilized, particularly the northwestern quadrant of the site. There are private homes and horse stables on the south side of Merrill Avenue, along both sides of Hughes Avenue, and along the south side of Bloomfield Avenue. This latter street is presently only one block long, as it was cut off from its western end by the West Shore Expressway. There is a vacant lot on the north side of Bloomfield Avenue that has been excavated, bulldozed and is currently being utilized as a manure dumping area by the nearby residents who clean out their horse stables.

The northeastern quadrant of Section III has been considerably bulldozed and developed as well (see Figure 15). An extensive area near the southwest corner of Merrill Avenue and South Avenue has been extremely disturbed by bulldozing and subsequent construction. The remains of a driveway entrance and a concrete foundation are present near this intersection. Large piles of earth, 8 to 10 feet high, are present along the east and south sides of this disturbed corner of land. Domestic garbage and building debris has been dumped along the edge of both Merrill and South avenues. This northeast quadrant of Section III is currently being utilized as a horse exercise ring, and a fenced-in dog yard is located at the remains of the concrete foundation. This northern segment of Section III was thought to have formerly contained a major portion of the Bloomfield prehistoric site.

As discussed earlier, a pipeline right-of-way crosses through the center of Section III. The route of this pipeline is approximately 150 feet wide and this zone has been disturbed by construction activity and dumping which followed later. The southern and western edges of

FIGURE 15. View of a portion of Section III and the Bloomfield Site. The land in the foreground has been bulldozed and the stripped soil piled up along the edge of the property. The center of the photograph shows extensive development of the area as horse stables. (Edward Lenik, photographer, 1983.)

Section III have also been disturbed by road construction for approximately 30 to 50 feet in from Bridge Avenue and the East Service Road. Dumping has taken place along these roads and South Avenue on the east. The entire periphery of Section III is littered with domestic garbage of all kinds including abandoned furniture, refrigerators and building debris.

The undisturbed land in Section III consists of a mixed hardwood forest that is poorly developed. The land is flat, low and swampy on the southeasterly side bordering on South Avenue. Red oaks, white oaks, and gray birch are the principal trees growing in this section. The understory is dense in some areas and consists of rhododendron, laurel, cat briars, goldenrod, milkweed and ryegrass. Phragmites are found growing in the swampy area bordering on South Avenue.

Two backhoe trenches were excavated within Section III (see Figure 1). Trench No. 6 was L-shaped and was located in the southern section of the site, some 100 feet north of Bridge Avenue. This trench measured 10 by 3 feet in each leg. The soil stratigraphy encountered consisted of three layers (see Figure 16). Stratum A was black topsoil and humus that varied in thickness from 6 to 8 inches. Stratum B was a dark gray sand that extended to a maximum depth of 18 inches below ground level. Stratum C was a tan/brown-colored sand that extended to a depth of 36 inches. No cultural material was recovered.

Backhoe Trench No. 7 was placed at the center of Section III, immediately to the north of the pipeline right-of-way. This trench measured 10 by 3 feet and was 3½ feet deep. Four layers of soil were encountered (see Figure 17). Stratum A was a 12-inch-thick layer of

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FIGURE 16. Trench 6 Profile
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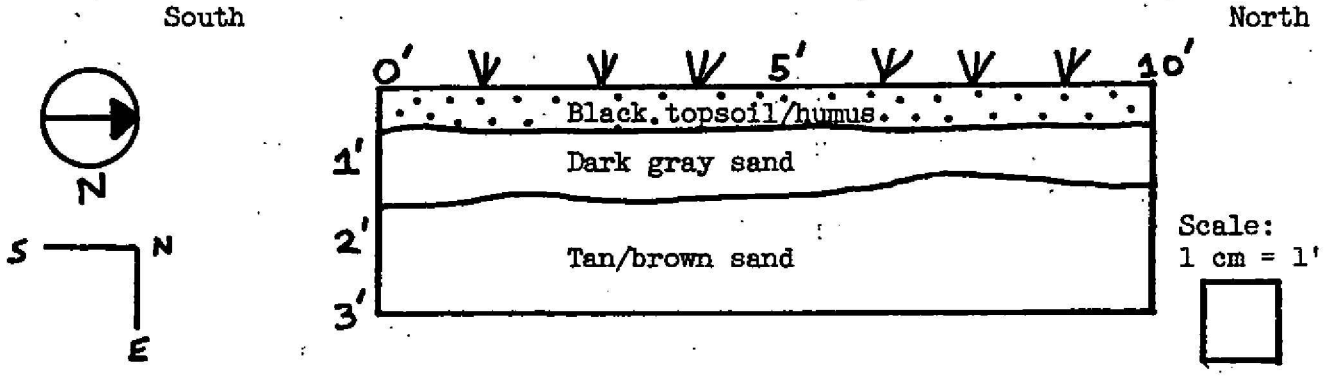

Location and Description:

Trench 6 is an L-shaped test located in the southern end of Section II on the north side of Bridge Street. The site of the test has been considerably disturbed due to nearby road construction and recent garbage dumping. The east-west stratigraphy of the trench is similar to the profile above. No artifacts were recovered.

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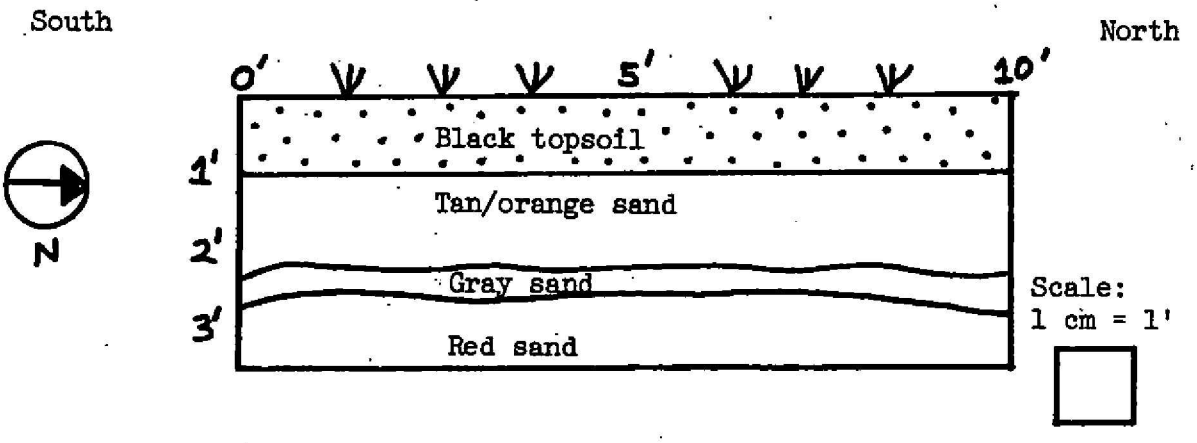
FIGURE 17. Trench 7 Profile
12/13/82



Location and Description:

Trench 7 was located in Section III just north of the gas transmission line. In a wooded area, the test had a 12 inch-thick topsoil layer and was excavated to a depth of 3'6", at which point water was encountered. No artifacts were recovered.

black topsoil and humus. Stratum B was a tan/orange sand that extended from 12 to 27 inches. Stratum C was a thin layer of gray-colored sand some 4 to 6 inches thick. The deepest layer, Stratum D, consisted of red sand. The excavation of the trench was halted when water was encountered at a depth of 3½ feet.

Within Section III, 91 subsurface shovel tests were excavated. Of this total, 16 were excavated in the extreme northeastern segment of the site previously described as disturbed and currently utilized as a horse ring. These 16 tests confirmed the visible extensive disturbance and destruction that had taken place in this area. There was no topsoil layer present in most of these tests, clearly indicating that the area had been scraped by a bulldozer. In general, we encountered a tan/orange colored sand which we excavated to a depth of 32 to 38 inches. Furthermore, a situation of reverse stratigraphy was found in a few of these tests. That is, the tan/orange-colored sand was on the surface and was underlain by black soil mixed with coal and ash.

Coal was found in a few of the 16 shovel tests that were dug within the northeastern segment of Section III, as well as bits of concrete, wood, and rusted iron. Test Pit 562 produced a fragment of cow bone and bits of rusted iron in the upper Stratum A. This layer was disturbed and consisted of a mixed brown, orange, and black-colored sand. Hence this bone fragment was in a disturbed context and of little value in reconstructing the cultural history of the site. Stratum B of test 562 was tan/orange sand that was excavated to a depth of 29 inches and found to be devoid of cultural material. Finally, one surface artifact was recovered from the driveway leading into the horse ring

area. This artifact was a brown jasper core that had been fractured and possibly worked. This specimen may be aboriginal in origin. However, it is impossible to determine whether this fracturing was caused by a deliberate human act or by a vehicle going over it in the driveway.

Excavations in the undisturbed and primarily wooded portions of Section III consisted of 75 shovel tests (see Figure 1). Most of these tests were spaced 50 feet apart, but several were dug at random because of the local topographic conditions. For the most part, we encountered three soil strata in these tests. There was an upper layer of black topsoil and humus which ranged in thickness from 2 to 20 inches. The middle stratum consisted of a black-to-gray-to-brown-colored sand, and the lower stratum was a gray or tan/orange sand. One artifact was recovered from this series of tests. In Test Pit 313 we recovered a piece of asphalt from Stratum A, a black topsoil layer that was 3 inches thick. This artifact was recorded and discarded. Stratum B in this test extended from 3 to 6 inches in depth and was sterile. Stratum C was tan/orange sand and was taken down to a depth of 23 inches. It was also sterile.

Once again, our extensive reconnaissance and subsurface testing of Section III failed to confirm the existence of the Bloomfield or Watchogue sites. Furthermore, several of the current residents and visitors to the Bloomfield section were consulted as to whether they had ever found any prehistoric artifacts--"arrowheads" in particular--in the area. All replied negatively. These facts, together with the extensive

ground disturbance that has occurred at the site, leads us to conclude that the area is non-sensitive. No further testing is recommended in Section III.

D. SECTION IV

Section IV of the East Side Project survey is a trapezoid-shaped parcel of land located between South Avenue and the East Service Road (Glen Avenue) of the West Shore Expressway (see Figure 1). It is bounded on the north by a wooded "Preserved Wetlands" area, and on the south side by Merrill Avenue. Our survey indicates that the landscape in this section has been altered considerably, particularly in recent times.

The extreme western portion of this tract of land has been extensively developed and utilized. There are private homes, garages, and horse stables located along both sides of Hughes Avenue. The West Shore Stables, in particular, is a large commercial type building that fronts on Hughes Avenue and extends west to the edge of the East Service Road. A cattle pen, an enclosed horse ring, and a large open and bulldozed section which is utilized as a horse exercise area, are located to the east of Hughes Avenue.

Reconnaissance of the area revealed that this tract of land was also extensively developed into horseback riding trails. These trails are utilized by people frequenting the boarding stables nearby. Several bridal paths and dirt roads meander and cross each other throughout Section IV. These trails and roads were clearly cut through the landscape, probably with a bulldozer. In our field survey, we observed many mounds of earth along these trails. Also, the present level of the

dirt roads is 1 to 2 feet lower than the adjacent natural ground level. A great deal of dumping has taken place throughout the site, especially along the margins of South Avenue, Merrill Avenue, and the East Service Road (Glen Avenue). Abandoned automobiles and a variety of other debris were found scattered throughout Section IV.

The forest cover in the remaining and presumably undisturbed areas of Section IV varies considerably. The extreme eastern and northern portions of this section consist of mixed hardwoods such as maples, red oak, black oak, white oak, some white and gray birch and dense vines or thickets. The interior or center portion of the site is covered with thickets of laurel and very young trees with low canopy height. This portion of the site was probably an open field just a few years ago.

Because of the extreme disturbance of the landscape which we encountered, plus the varied and dense forest cover, it was not possible to carry out systematic grid-like testing in this area. Instead, we employed a random sample design in order to give us broad coverage throughout the site especially in undisturbed areas. One backhoe trench and 113 subsurface shovel tests were excavated within this section.

Backhoe Trench No. 8 was located and excavated in the southeastern portion of Section IV (see Figure 1). This trench was 10 feet long, 3 feet wide, and 3½ feet deep. Three soil strata were revealed by this excavation (see Figure 18). Stratum A was an upper layer of black topsoil that was 7 inches deep. Stratum B consisted of a 2 to 2½-foot thick layer of a tan/reddish-colored sand. Stratum C, at the bottom, was a gray-colored sand that was excavated to a depth of 3½ feet. No artifacts were recovered.

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FIGURE 18. Trench 8
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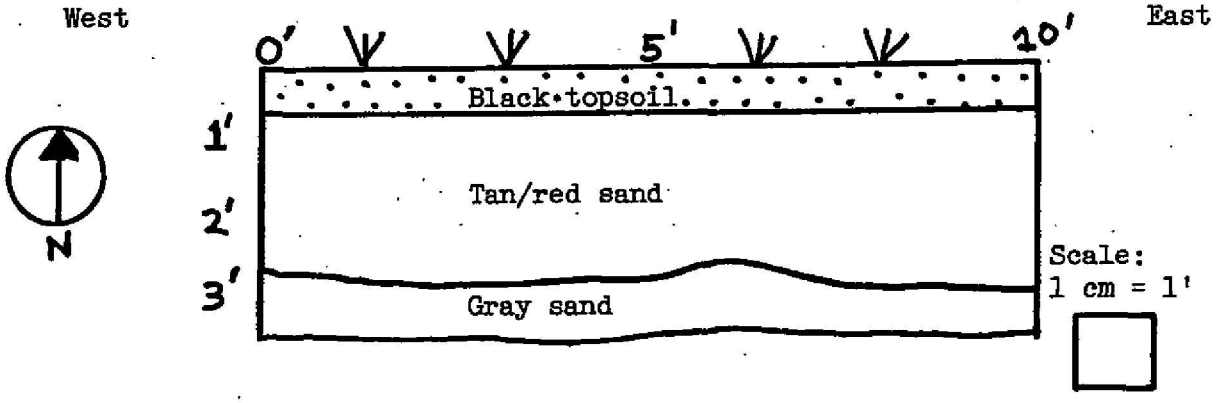

Location and Description:

Trench 8 is located in the southern segment of Section IV, just north of Merrill Avenue. Several horse bridal paths as well as junked cars and piles of dirt are in this relatively open area. A 7 inch-thick layer of topsoil was found over sandy subsoil. The test was excavated to a depth of 3 feet 6 inches. No artifacts were recovered.

In general, the shovel tests revealed a similar stratigraphic sequence throughout the site. The upper layer of topsoil was thin, and consisted of black to grayish-black colored sandy soil. In many areas, however, the black topsoil layer was gone, having been stripped or eroded away. The underlying subsoil was also sand and tended to vary slightly in color from test to test, such as tan/orange, brown, and reddish-brown. There was an exception to this general stratigraphic pattern at the northern end of Section IV. In this portion of the site, the land slopes and drains gradually toward the wetlands on the north, and our tests often revealed a subsurface layer of gray sand, gray clay, and water.

The survey and testing of Section IV resulted in the recovery of some cultural material. Most of the artifacts that were recovered were modern American items, but we did find two prehistoric specimens as well.

Test Pit 414 was located near the center of Section IV. The ground cover in this location was grass. Stratum A was 4 inches deep and was a brown sandy soil. Two pieces of coal, 3 small pieces of milk glass, 1 automobile spark plug, and one fragment of a red flowerpot were recovered from this layer. These artifacts clearly date to the twentieth century and were duly recorded and then discarded. Stratum B was a disturbed soil layer of black, gray, and orange sand that extended from 4 to 7 inches. Stratum C was a tan/orange sand that was excavated to a depth of 26 inches. Both of these lower strata were devoid of cultural material.

Test Pit 416 was also located in the center of the site. Stratum A was a 6-inch-thick layer of black topsoil that contained 1 brick fragment which was recorded and then discarded. Stratum B was a brown-colored sand that extended from 6 to 16 inches but did not contain any cultural material.

Stratum C was tan/orange sand that was dug to a maximum depth of 24 inches and was also sterile.

Test Pit 438 was located in the southwestern quadrant of the site behind the homes on Hughes Avenue. The soil layers in this test showed evidence of being disturbed. Stratum A consisted of brown topsoil that was 5 inches deep. One piece of iron wire was recovered from this soil layer. Stratum B was black sand that went from 5 to 8 inches in depth. Stratum C was again a brown sandy layer that extended from 8 to 13 inches. Stratum D, the lowest layer, was tan/orange sand that was excavated to a depth of 25 inches. All of these lower strata were sterile.

Test Pit 393 was located in a wooded area between the East Service Road (Glen Avenue) and a dirt road which was formerly the western extension of Lambert's Lane. One prehistoric artifact was recovered from this test. Stratum A was 4 inches deep and consisted of a black topsoil and humus layer that was sterile. Stratum B was a brown-colored sand that extended from 4 to 6 inches, and was also sterile. Stratum C was a tan/orange-colored sand that was excavated to a depth of 23 inches. One tan-colored argillite flake was recovered from the upper portion of Stratum C. This artifact is clearly prehistoric in origin and is a waste flake from the stone toolmaking process. The bulb of percussion is visible on this specimen. Additional shovel tests were made in the vicinity of Test Pit 393, but they failed to produce more evidence of prehistoric cultures.

One prehistoric stone knife was recovered from the surface of the ground at the extreme southeastern corner of Section IV. This artifact was found on the top of a mound of earth that had been bulldozed

into this area. There were chunks of macadam on the top surface of this mound and also at ground level in the immediate area. It was not possible to ascertain where this bulldozed mound of earth had originated. The soil may have been bulldozed from an adjacent horse trail, or it may have been pushed in from the corner of Merrill Avenue and South Avenue.

The stone knife is made of a tan-colored chert that is heavily weathered and stained a dark brown color on one side. It is triangular in shape and measures 3-1/8 inches long (80 mm), 2-3/4 inches wide (70 mm), and has a maximum thickness of 3/4 inch (21 mm). Microscopic examination of this artifact revealed the presence of some edge wear, thus indicating that it was utilized as a cutting tool. This stone tool looks like a large triangular projectile point except that it has a raised hump on one face. This hump remained on one face of the implement after the prehistoric flintknapper had completed the thinning process, and it could not be removed without breaking the piece (Brennan 1975: 93). This type of tool has been characterized as a finished implement by previous researchers and called a "hump-backed" knife (Munson and Munson 1972: 31).

In summary, the evidence recovered for prehistoric occupation within Section IV is virtually negligible. Only one artifact, a flake, resulted from the excavation of 113 shovel tests and 1 backhoe trench. Our intensive surface collecting of this site also produced only one stone tool in a very disturbed context. This section of the project area has been extensively scarred and altered, particularly during the nineteenth and twentieth centuries. Therefore, we conclude that the area is non-sensitive and no further testing is recommended.

E. SECTION V

This section of the project area is a small pie-shaped piece of land bordered by Lambert's Lane on the north, South Avenue on the east, and surrounded by preserved wetlands on the south and west sides (see Figure 1). More than two-thirds of this section is a dense mixed hardwood forest. The northern end of this tract of land has been developed. There are two one-story and two two-story frame structures located on the south side of Lambert's Lane that are presently occupied. To the south of these homes is a large wooden barn, a frame shed, and a stable; to the east are two trailers.

The forested area of Section V consists primarily of red oaks, white oaks, black oaks, and white and gray birch trees. There is a scattering of young maple trees throughout the site and young locust trees are growing at the northern end. Once again, a considerable amount of dumping has taken place along South Avenue, and the garbage often extends as much as 50 feet to the west, into the woods. Phragmites and also goldenrod are growing abundantly along the edge of South Avenue. One backhoe trench and 20 subsurface shovel tests were excavated within Section V.

Trench No. 9 was located and excavated in approximately the middle of the site, some 75 feet into the woods to the west of South Avenue (see Figure 1). This trench measured 10 feet long by 3 feet wide by 3½ feet deep (see Figure 19). Soil Stratum A was a black sandy topsoil that was 6 inches in depth. Stratum B was a tan/orange-colored glacial outwash sand that extended from 6 to 36 inches in depth. Stratum C, the lowest, was gray sand that was excavated to a depth of 42 inches. Work

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FIGURE 19. Trench 9 Profile
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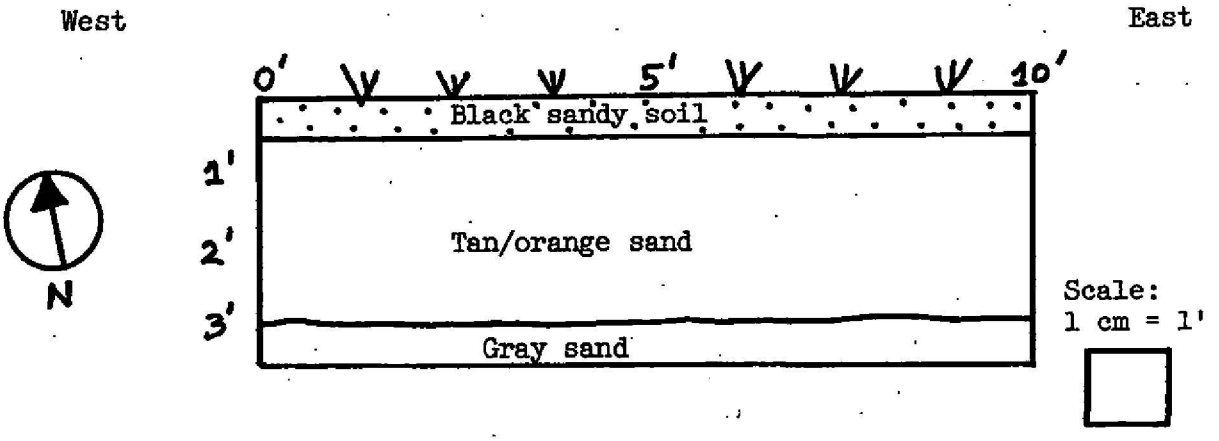

Location and Description:

Trench 9 is located in the eastern area of Section V, 50 feet in from the west side of South Avenue. The site is heavily wooded with considerable garbage dumped along the edge of South Avenue and the adjacent woods. The topsoil layer was a consistent 6-inch stratum with leaf mulch on top. Sandy subsoil was excavated to a depth of 3 feet 6 inches, at which point water was encountered. No artifacts were recovered.

was halted at this point because water began to seep into the trench. No cultural material was recovered.

The stratigraphy encountered in the 20 test pits excavated throughout the site was generally consistent. Soil Stratum A was a black topsoil and humus layer that ranged in thickness from 3 to 11 inches. Stratum B, immediately beneath the topsoil, was a light brown sandy soil. Finally, Stratum C was a tan/orange or yellowish-colored subsoil.

Artifact recoveries were extremely sparse in Section V. Test Pit 472 produced one fragment of clear glass from an apparently disturbed soil layer. Stratum A of Test Pit 472 was a 4-inch-thick layer of black topsoil and humus. Stratum B was dark brown sandy soil that extended from a depth of from 4 to 14 inches. These two soil layers were sterile. Stratum C was a two-inch-thick layer of black sand that contained the fragment of clear glass. This piece of glass is non-diagnostic and was recorded and then discarded. Stratum D, the lowest in this test, consisted of tan sand that was yellowish at the very bottom. This final stratum was excavated to a depth of 24 inches and was sterile.

One piece of coal was recovered from the topsoil layer of Test Pit 473. This item was duly recorded and discarded as well. No prehistoric artifacts were recovered from Section V.

This section of the project area has no prehistoric or historic significance as confirmed by the previous documentary research as well as the current field reconnaissance and testing. Therefore, this portion of the project area is not culturally significant or sensitive.

F. SECTION VI

Section VI is also a pie-shaped piece of land located on the western side of South Avenue and north of Lambert's Lane (see Figure 1). The preserved wetlands form the western border of this parcel and the East Service Road (Glen Avenue) is the northern boundary. The entire section is a dense, mixed hardwood forest.

This parcel of land has a very thick ground cover consisting of cat briars, vines, and brambles. The trees growing here are relatively young, and include maple, white oak, red oak, and white birch. The ground is soft and somewhat swampy. The middle portion of Section VI gives the appearance of having been open and cleared land, probably in recent times. Swamp laurel is growing in this area together with very small birch trees. This entire tract was probably a wetlands area at one time but is slowly shifting into an uplands forest.

The construction of the adjacent West Shore Expressway and the Staten Island Expressway with their service roads and ramps has had a profound effect upon the landscape in this area. The highway construction disturbed the natural drainage of the site and, of course, scarred the land. A considerable amount of dumping has taken place along the northern and eastern edges of Section VI, along the East Service Road (Glen Avenue) and South Avenue. Garbage of every description, from automobiles to refrigerators, has been dumped along these roads and this material extends into the woods for approximately 30 to 40 feet. Phragmites and staghorn sumac are growing abundantly along the edge of South Avenue.

The task of surveying and test excavating Section VI was extremely difficult because of the vegetation and conditions described above. It was not possible to get the backhoe onto this tract of land and thus a

trench was not excavated within this section. In fact, it was extremely difficult for out field crew to walk through this area. Nevertheless, 52 shovel tests were excavated within Section VI, and for the most part, these tests were placed at 100-foot intervals.

In general, the 52 shovel tests indicated that the soil within Section VI was undisturbed. The soil stratigraphy was consistent throughout the area with very little variation. The typical stratigraphic sequence was as follows: Stratum A was a black topsoil and humus layer that ranged in depth from 2 to 8 inches. Stratum B, underneath the topsoil, was generally a brown sandy soil that also varied in thickness from 2 to 12 inches. On occasion Stratum B was found to be a gray-colored sand. Stratum C, the deepest soil layer, was a tan/orange-colored sand.

A few artifacts were recovered from the shovel tests within Section VI. Coal was encountered in the topsoil layers of test pits No. 511, 516, 517, and 519.

Test Pit 523 produced a piece of clear bottle glass from Stratum A's 3-inch thick black topsoil layer. This glass fragment is ¼ inch thick (6 mm) and shows evidence of a mold seam. A name was molded into the glass but only the following letters remain: "JACOB..." This artifact may be a fragment from an early twentieth-century milk bottle. Stratum B in this test was sterile brown sandy soil that extended from 3 to 12 inches. Stratum C was a tan/orange-colored sand that was also sterile and was excavated to a depth of 24 inches.

Test Pit 525 revealed a disturbed upper layer of soil that contained some cultural material. Stratum A was 7 inches deep and consisted of a mixed black and brown sandy soil. This soil layer contained 1 fragment of pressed glass, 1 fragment of window glass, 1 fragment

of white porcelain, 1 thick fragment of whiteware, and a whiteware rim of a dish that has a molded floral design. The artifacts probably date from the late nineteenth to the middle of the twentieth century. Stratum B was a sterile tan/orange sand that was excavated to a depth of 25 inches.

No prehistoric artifacts or features were found in the pedestrian survey and testing of Section VI. Although we recovered some scattered cultural material of recent origin from the site, no historical features or structures were encountered. Therefore, Section VI is judged to be culturally non-sensitive and no further work is recommended.

G. SECTION VII

Section VII is a 20.9-acre parcel of land located in the extreme northeastern portion of the East Side Project site (see Figure 1). On the north it is bounded by the service road called Fahy Avenue, on the east by a buffer zone along Felton Street, on the south by preserved wetlands and on the west by South Avenue. An east-west street called Lambert's Lane crosses the lower end of this tract of land.

The topography of this section is low, flat, and wet, and the vegetative cover is varied (see Figure 20). Two segments of this tract are formerly connected wetlands that are in a state of transition. There are also two open and two developed areas. One area of development is at the northern end where the land has been altered and filled by road construction. The other is near the southeast corner of South Avenue and Lambert's Lane where thereare 3 two-story homes. Across the street from these homes, on the north side of Lambert's Lane, is an open area

FIGURE 20. Eastward view of part of Section VII.
(Edward Lenik, photographer, 1983.)

that is utilized for parking by the local residents. There are several abandoned cars here as well. The balance of this section is a mixed hardwood forest.

Portions of the northern half of Section VII are densely wooded with young white birch trees and small shrubs. A drainage ditch which contains water runs along the western edge of this section paralleling South Avenue. Another ditch, also containing water, runs perpendicular to South Avenue and out into an open wetlands area. Our field reconnaissance revealed the existence of two additional drainage ditches running from east to west through the northern end of this tract, but these ditches are now dry.

The southern portion of Section VII, south of Lambert's Lane, has an open grassy field that runs into a young stand of white birch trees and then continues down into a swampy area with a stand of hardwoods. A considerable amount of garbage dumping has taken place along the east side of South Avenue and especially along both sides of Lambert's Lane. In fact, at one point there was so much garbage dumped along Lambert's Lane that the road was virtually impassible by automobile.

One backhoe trench and 23 shovel tests were excavated within Section VII. The backhoe trench was placed and excavated in an open grassy field north of Lambert's Lane (see Figure 1). This was designated as Trench No. 10, and it measured 10 feet long, 3 feet wide, and 3 feet deep. Three soil strata were encountered (see Figure 21). Stratum A was a black sandy soil that varied in thickness from 8 to 12 inches. Stratum B was a gray colored clay that extended to a depth of 25 inches.

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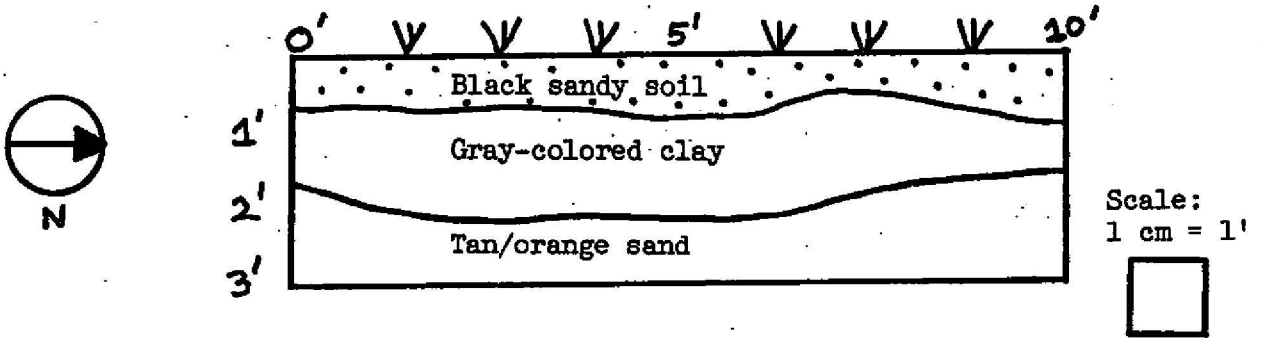
FIGURE 21. Trench 10 Profile
12/14/82

South North



Location and Description:

Trench 10 is located just south of the central area of Section VII, north of Lambert's Lane, and east of South Avenue. The site is a wet, grass-covered area. Sandy soil was revealed, with water located at a depth of 3 feet. No artifacts were recovered.

Stratum C, the deepest layer, was a tan/orange-colored sand that was excavated to a depth of 36 inches. Water quickly began to seep into this trench and work was halted. No artifacts were recovered. Unfortunately, after this trench was excavated and recorded, the backhoe became mired in the soft sand and seeping water and had to be extracted from the site.

Fourteen shovel tests were excavated in the area south of Lambert's Lane. The soil stratigraphy in this zone consisted of an upper layer of dark brown or black topsoil ranging from 2 to 12 inches in thickness. Stratum B was a brown, sometimes gray, or sometimes tan sandy soil. Stratum C was a yellowish-colored sand. Water was frequently encountered in many of these tests.

Only one artifact was recovered from the 14 tests at the south end of the site. Test Pit 488 produced one piece of coal from its thin 2-inch layer of black topsoil and humus. Stratum B of this test was a brown sandy layer that extended from 2 to 11 inches in depth and was sterile. Stratum C was a yellowish subsoil excavated to a depth of 26 inches and was also sterile.

Nine shovel tests were dug in the wooded area at the northern end of Section VII. The stratigraphic sequence in this area was as follows: Stratum A was a black topsoil and humus layer. Stratum B was a dark gray sand, and Stratum C was a light gray sand. In all these 9 tests water was encountered at a depth of 18 inches. No artifacts were recovered from this series of tests.

Further testing of Section VII was abandoned after consultation with archeologists from the New York City Landmarks Preservation Commission because of the wet and swampy conditions throughout the site. The area is poorly drained and pools of water were continually present, particularly around the private homes on Lambert's Lane. In our opinion, the area is culturally sterile and further work is not warranted.

VI. ANALYSIS, SUMMARY, AND RECOMMENDATIONS

Our search for evidence of prehistoric occupation at the East Side Project site included a number of different approaches. First, a thorough pedestrian survey of the project area was conducted. This involved a careful walk-over and observation of the landscape, including a study of the topography, vegetation, and the changes wrought by human agencies in the past. In this reconnaissance procedure, eroded and previously bulldozed or excavated areas were checked for the presence of artifacts or features. Trails, dirt roads, stream banks, and dried-up stream beds, wooded and open areas, higher ground and swampy zones were also examined carefully. Our search for surface evidence of prehistoric occupation was an intensive one, conducted by an experienced field crew.

Secondly, an attempt was made to learn as much as possible about the project area by consulting with local residents and informants. We spoke to local people at every opportunity--particularly in the presumed locations of the Bull's Head and Bloomfield sites. The result of these discussions was completely negative, and the following examples will serve to illustrate this point. One individual who resides on Victory Boulevard on property abuting Section I of the project area stated that we were searching for "arrowheads" in the wrong place. This person claimed to be a lifelong resident of the area, and to his knowledge no Indian artifacts were ever found in Section I. In fact, he had personally

stripped and removed the topsoil from a large area on the south side of the Nansen Park Picnic Grounds. Instead, he stated that relics were frequently found near the present Con Edison plant, a site which is outside of our project area. This statement was an obvious reference to the Neck Creek Site (NYSM #4598).

Another informant told us that he found "arrowheads" at the northern end of Section IV, adjacent to the nearby wetlands (Pastrano 1982: personal communication). He led our field party to his alleged find spot, where we proceeded to carefully examine the locality once again. The ground cover at the northern end of Section IV consists of low brush and leaves and the area is low and swampy. Thus we were highly skeptical of his reported arrowhead finds. Nevertheless, we excavated several additional shovel tests in the area but the results were negative. Furthermore, this informant could not produce any of the alleged artifacts he claims to have found on this site.

Finally, we excavated 625 shovel test pits within the entire project area. Our subsurface sampling design included systematic grid pattern testing, random testing, and site specific testing. The latter method involved digging test pits in areas where the topography indicated a likelihood of prehistoric occupation.

The results of our field work have revealed meager evidence of prehistoric occupation within the East Side Project site (see Figure 22). No prehistoric cultural material was found within the reported location of the Bloomfield or Watchogue Site. However, one argillite waste flake was found in the northwestern portion of Section IV, and a stone knife

FIGURE 22. Prehistoric artifacts recovered from the East Side Project area. Top left, brown jasper core recovered from surface in Section III. Top right, argillite flake recovered from Stratum C of Test Pit 393 in Section IV. Bottom center, large chert "hump-backed" knife from surface of Section IV. Bottom right, gray chert flake from Stratum A, Test Pit 150, in Section I. (Edward Lenik, photographer, 1983.)

was recovered from the surface of the ground in the southeastern corner of this same section. Section IV lies to the north of the reported location of the Bloomfield Site and may be a part of this same prehistoric site. Nevertheless, our meager finds were disappointing but not surprising.

The documentary references to the Bloomfield Site are vague and the community of Bloomfield or Watchogue is a general or ill-defined area. Furthermore, Skinner and Parker both describe Indian relics as being found on the surface of "dunes and sandhills" in the area (Skinner 1914: 102; Parker 1920: 681). Such dunes and sandhills do not exist in this locality at the present time. The Bloomfield Site was undoubtedly destroyed by the construction of the West Shore Expressway, as well as by the continued development, utilization, and alteration of the landscape in the remaining portions of this former community.

Our intensive survey and testing of the Bull's Head Site, reportedly located on a knoll just north of Victory Boulevard, also failed to uncover evidence of prehistoric occupation in this area. Only one prehistoric artifact was recovered from the 288 shovel tests excavated within Section I of the project area. This specimen--a gray chert flake--was recovered from a wooded area immediately adjacent to the southern edge of the Nansen Park Picnic Grounds. The area where this artifact was found is at an elevation of approximately 36 feet above mean sea level, the highest within the East Side Project site. The land immediately to the south of this area is intensively developed with commercial and residential structures.

In our opinion, the prehistoric Bull's Head Site is not located within the East Side Project area. As Rutsch and Hartman pointed out previously, the "notations of the sites located within and adjacent to the study area are cursory," and were "made in a preliminary fashion during the inventory days of the early twentieth century" (Rutsch and Hartman 1982: 38). The Bull's Head Site was probably located somewhere to the southeast of our project area. In the late nineteenth century, a small body of water called "Bull's Head Pond" existed in the area between the Richmond Turnpike (present day Victory Boulevard) and Signs Road (Leng 1896). A community called Bull's Head still exists today at the intersection of Victory Boulevard and Richmond Avenue, just to the north of this pond site. The area today is intensively developed with private homes and commercial establishments. Furthermore, Parker's survey site 7, which mentions "graves" and an alleged prehistoric "burying ground" refers to the Chelsea Site (NYSM #4627), which is located to the west and outside of our project area (Parker 1920: 681-82).

In summary, the early twentieth century survey reports, which are often cited in cultural resource management studies, must be examined critically and with a great deal of skepticism. These early reports are often vague as to location, and frequently refer to collections long since gone or dispersed, or to hearsay reports. Such data must be carefully cross-checked and correlated with historical maps and present-day maps. The names, places, roads, and sites often change or disappear

entirely as time passes by. However, in the final analysis, a systematic field investigation must be conducted to determine the presence or absence of cultural remains. Our field work within the East Side Project area has clearly determined that the site is culturally non-sensitive, and that the proposed development will have no impact upon the cultural resource base of the area.

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VIII. APPENDICES

A. TEST EXCAVATION RECORDS

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
1	0-12	Black disturbed soil	1 frag. stoneware; 1 pc. whiteware; 1 pc. English flint; 1 bottle frag. pc. of coal; brick
	12-17	Red clay	Sterile
2	0-10	Red/gray clay, disturbed	None
3	0-12	Black soil	Brick and ceramic pipe frag.; discarded
	12-19	Red clay	None
4	0-14	Gravel-like hard-packed blacksoil with stones	Brick frag.
	14-18	Red clay	None
5	0-6	Black topsoil	1 pc. coal; redware flowerpot frag. (discarded)
	6-12	Hard-packed red clay	None
6	0-7	Black topsoil	Brick frag.; 1 pc. coal (discarded)
	7-18	Red clay	None
7	0-12	Red clay (grass on top)	None; area stripped of topsoil
8	0-13	Red clay (grass on top)	None; no topsoil cover
9	0-15	Red clay (grass on top)	2 pcs. coal (discarded)
10	0-13	Brown loam	None
	13-20	Red clay	None
11	0-14	Dark brown loam	1 pc. coal (discarded)
	14-18	Gray clay	None
12	0-2	Dark brown loam	None
	2-16	Red clay	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
13	0-2	Dark brown loam	None
	2-12	Orange/tan soil	None
	12-19	Gray clay	None
14	0-1	Dark brown loam	None
	1-18	Red clay	None
15	0-2	Dark brown loam	None
	2-16	Red clay	None
16	0-3	Dark brown loam	None
	3-17	Red clay	None
17	0-3	Dark brown loam	1 pc. coal; wood (discarded)
	3-18	Red clay	None
18	0-4	Black topsoil/loam	None
	4-18	Red clay	None
19	0-8	Black loam	1 pc. coal; sewer pipe
	8-14	Red clay	None
20	0-10	Black topsoil	1 pc. coal; bottle glass frag.
	10-17	Red clay	None
21	0-12	Black, stony soil; disturbed	Mortar frag.; brick frag.; oyster shell frag. (all discarded)
	12-16	Red clay	None
22	0-14	Black sandy soil, stones; hard packed; water at bottom	1 pc. coal; sewer pipe frag. (discarded)
23	0-12	Black sandy soil, disturbed, hard packed	1 pc. coal; sewer pipe frag. (discarded)
24	0-4	Black, sandy soil	1 pc. coal; wood; brick frag. (discarded)
	4-15	Red clay	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
25	0-3	Dark brown loam	None
	3-14	Red clay	None
26	0-4	Dark brown loam	None
	4-20	Red clay	None
27	0-4	Dark brown loam	None
	4-18	Red clay	None
28	0-10	Dark brown loam	None
	10-17	Red clay	None
29	0-5	Dark brown loam	None
	5-16	Red clay	None
30	0-5	Dark brown loam	None
	5-17	Tan/orange soil	None
31	0-14	Red clay, hard packed; no topsoil (area stripped)	None
32	0-16	Red clay and brown loam, mixed; rock; disturbed	None
33	0-4	Black/brown loam	None
	4-18	Tan/orange soil	None
34	0-16	Black sandy soil; disturbed	1 pc. tile pipe, 1 pc. coal; shell frag.; wood (discarded)
35	0-20	Black soil mixed with gray clay and tan clay; disturbed	Coal (2 pcs.)
36	0-4	Dark brown loam	None
	4-15	Red clay	None
37	0-3	Dark brown loam	None
	3-16	Red clay	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
38	0-3	Dark brown loam	None
	3-17	Red clay	None
39	0-18	Red clay, stripped of all topsoil	None
40	0-5	Black/brown loam	None
	5-19	Tan/orange soil	None
41	0-2	Brown loam	None
	2-16	Gray/orange clay	None
42	0-4	Dark brown loam	None
	4-20	Tan/orange soil	None
43	0-3	Dark brown loam	None
	3-18	Red clay	None
44	0-5	Brown loam	None
	5-20	Tan/orange sandy soil	None
45	0-8	Red/brown mixed soil; stripped of topsoil	None
	8-18	Tan/gray clay	None
46	0-2	Dark brown loam	1 pc. mirror glass (discarded)
	2-17	Red clay	None
47	0-6	Dark brown loam	None
	6-17	Tan/orange sand	None
48	0-7	Dark brown loam	None
	7-18	Red clay	None
49	0-7	Dark brown loam	2 Brick frags.; 1 frag. whiteware with blue transfer print design
	7-16	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
50	0-5	Dark brown loam	None
	5-21	Red sand	None
51	0-4	Dark brown loam	None
	4-14	Mottled gray/tan/red soil	None
52	0-12	Dark brown loam	Brick frag.; coal; pc. plastic (discarded)
	12-17	Mottled gray/tan/red soil	None
53	0-7	Dark brown loam	None
	7-18	Mottled gray/tan/red soil	None
54	0-7	Dark brown loam	None
	7-16	Gray/tan/orange sand	None
55	0-3	Brown/black loam	2 pcs. coal (discarded)
	3-17	Mottled gray/tan/orange soil	None
56	0-10	Brown/black sandy loam	1 pc. mortar; 2 pcs. coal; rusted iron frag. (discarded)
	10-22	Mottled gray/tan/orange sand	None
57	0-8	Dark brown/black sandy loam	1 pc. coal; 1 small pc. clear glass (discarded)
	8-18	Tan/gray sand	None
58	0-12	Dark brown sandy loam	4 pcs. coal
	12-20	Tan/orange sand	None
59	0-11	Brown sandy loam	None
	11-20	Tan/orange sand	None
60	0-12	Brown sandy loam	2 pcs. coal
	12-17	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
61	0-10	Brown sandy loam	1 pc. cinder
	10-19	Red clay	None
62	0-10	Dark brown loam	None
	10-18	Red clay	None
63	0-10	Dark brown loam	1 pc. cinder
	10-18	Red clay	None
64	0-8	Dark brown loam	1 pc. coal
	8-18	Tan/orange sand	None
65	0-11	Dark brown sandy loam	1 frag. whiteware; 1 pc. coal; cinder; pc. brick (discarded)
	11-17	Tan/orange sand	None
66	0-14	Brown sandy loam	None
	14-20	Tan/gray subsoil	None
67	0-10	Black/brown sandy loam	1 pc. brick
	10-19	Mottled tan/gray/red sand	None
68	0-15	Black/brown	None
	15-20	Mottled tan/gray/red sand	None
69	0-13	Brown sandy loam	3 pcs. coal
	13-18	Mottled tan/gray, reddish sand	None
70	0-12	Black/brown sandy loam	None
	12-18	Tan/gray sand	None
71	0-10	Dark brown sandy loam	None
	10-17	Tan/orange sand	None
72	0-9	Black/brown sandy loam	None
	9-19	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
73	0-3	Black humus/soil	2 pcs. coal (discarded)
	3-12	Dark brown sandy loam	None
	12-22	Tan/orange sand	None
74	0-3	Black humus	None
	3-9	Dark brown soil	None
	9-23	Tan/orange sand	None
75	0-1	Black humus/loam	1 cinder, 3 pcs. coal
	1-8	Brown sandy loam	None
	8-21	Tan/orange sand	None
76	0-2	Black humus/loam	None
	2-8	Brown sandy loam	None
	8-18	Tan/orange sand	None
77	0-16	Dark brown loamy sand	1 pc. coal
	16-22	Tan/orange sand	None
78	0-3	Black humus/loam	None
	3-17	Dark brown sandy loam	None
	17-24	Tan/orange soil	None
79	0-14	Dark brown sandy loam	3 pcs. burned coal
	14-21	Tan/orange sand	None
80	0-10	Dark brown sandy loam	1 pc. coal
	10-20	Tan/orange sand	None
81	0-2	Black soil and humus	None
	2-18	Tan/orange soil	None
82	0-4	Black soil and humus	1 pc. roofing tarpaper (discarded)
	4-20	Tan sandy soil	None
83	0-4	Black soil and humus	None
	4-22	Tan sandy soil	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
84	0-6	Black soil and humus	None
	6-22	Tan sandy soil	1 pc. window glass (discarded)
85	0-4	Black soil and humus	3 pcs. burned coal (discarded)
	4-20	Tan to tan/orange sandy soil	None
86	0-4	Black topsoil	None
	4-19	Tan/orange sandy soil	Horseshoe frag.
87	0-3	Black topsoil	None
	3-26	Tan/orange sandy soil	None
88	0-3	Black topsoil	6 pcs. coal
	3-24	Tan/orange sandy soil	None
89	0-3	Black topsoil	None
	3-10	Tan sandy soil	2 frags. pressed glass; 2 pcs. coal; 1 klinker (discarded)
	10-22	Tan/orange sand	None
90	0-4	Black topsoil	6 pcs. coal (discarded)
	4-20	Tan sandy soil	horseshoe frag.
91	0-3	Black topsoil	None
	3-28	Tan/orange sand	None
92	0-3	Black topsoil	None
	3-12	Light brown sand	3 pcs. coal; 1 klinker; 2 pcs. iron rust (discarded)
	12-26	Tan/orange sand	None
93	0-3	Black topsoil	1 pc. coal
	3-16	Light brown sand	None
	16-27	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
94	0-3	Black topsoil	1 frag. whiteware
	3-22	Tan/orange sand	None
95	0-3	Black topsoil	None
	3-12	Brown sand	None
	12-26	Tan/orange subsoil	None
96	0-4	Black topsoil	None
	4-15	Brown sand	None
	15-24	Tan/orange subsoil	None
97	0-16	Sandy brown soil, wet	None
	16-26	Tan/orange soil and water	None
98	0-3	Black topsoil	None
	3-15	Brown sand	None
	15-26	Tan/orange subsoil	None
99	0-5	Black topsoil	None
	5-12	Brown sand	None
	12-28	Tan/orange subsoil	None
100	0-5	Black topsoil	None
	5-14	Brown sand	None
	14-28	Tan/orange sand	None
101	0-5	Black topsoil	1 brick frag. (discarded)
	5-15	Brown sand	None
	15-22	Tan/orange sand	None
102	0-4	Black topsoil	None
	4-16	Brown sand	None
	16-26	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
103	0-3	Black topsoil	None
	3-14	Brown sand	None
	14-20	Tan/orange sand	None
104	0-4	Black topsoil	1 pc. rusted tin(?) (discarded)
	4-16	Brown sand	None
	16-26	Tan/orange sand	None
105	0-4	Black topsoil	None
	4-11	Brown sand	None
	11-26	Tan/orange sand	None
106	0-2	Black topsoil	None
	2-8	Brown sand	None
	8-20	Gray soil, hard packed	None
107	0-6	Brown topsoil	None
	6-21	Red clay	None
108	0-10	Brown topsoil	None
	10-20	Red clay, hard packed	None
109	0-9	Brown topsoil	None
	9-26	Red clay	None
110	0-10	Brown topsoil	None
	10-20	Red clay, hard packed	None
111	0-3	Black topsoil	None
	3-12	Brown loam	None
	12-27	Red clay	None
112	0-4	Black topsoil/humus	None
	4-18	Red clay, hard packed	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
113	0-3	Black topsoil	None
	3-7	Brown sandy soil	None
	7-20	Red clay	None
114	0-4	Black soil/humus	None
	4-18	Red clay	None
115	0-5	Black topsoil/humus	1 brick frag.
	5-10	Brown soil	None
	10-21	Tan/orange clay	None
116	0-5	Black topsoil	None
	5-18	Tan/orange clay	None
117	0-3	Black topsoil	None
	3-20	Tan clay	None
118	0-3	Black topsoil	None
	3-7	Brown soil	None
	7-20	Tan clay	None
119	0-3	Black topsoil	None
	3-20	Red clay	None
120	0-5	Black topsoil/humus	None
	5-24	Tan/orange sand	None
121	0-5	Black topsoil/humus	None
	5-20	Red clay, hard-packed	None
122	0-3	Black topsoil/humus	None
	3-18	Red clay	None
123	0-3	Black topsoil/humus	None
	3-10	Gray/brown; disturbed	None
	10-22	Tan/orange clay	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
124	0-3	Black topsoil/humus	None
	3-20	Red clay	None
125	0-2	Black topsoil	None
	2-8	Brown soil	None
	8-19	Red clay	None
126	0-3	Black topsoil/ humus	None
	3-10	Brown soil	None
	10-22	Tan/orange clay	None
127	0-2	Black soil/humus	None
	2-20	Mottled brown/gray clay	None
128	0-4	Black soil/humus	None
	4-22	Tan/orange clay	None
129	0-4	Black soil/humus	None
	4-19	Tan/orange clay	None
130	0-3	Black soil/humus	None
	3-20	Tan/orange clay	None
131	0-6	Black topsoil	None
	6-13	Brown soil	None
	13-22	Tan/orange clay	None
132	0-3	Black topsoil	None
	3-26	Tan/orange sand	None
133	0-5	Black topsoil/humus	None
	5-21	Tan/orange clay	None
134	0-4	Black topsoil/humus	None
	4-10	Brown soil	None
	10-19	Tan/orange clay	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
135	0-4	Black topsoil/humus	None
	4-18	Red clay	None
136	0-5	Black topsoil/humus	None
	5-10	Gray clay	None
	10-26	Tan/orange sand	None
137	0-4	Black topsoil/humus	None
	4-13	Gray/brown clay	None
	13-24	Tan/orange sand	None
138	0-4	Black topsoil/humus	None
	4-21	Red clay	None
139	0-4	Black topsoil/humus	None
	4-20	Red clay	None
140	0-6	Black topsoil/humus	None
	6-19	Tan/orange clay	None
141	0-4	Black topsoil/humus	None
	4-20	Tan/orange clay	None
142	0-5	Black topsoil/humus	None
	5-22	Tan/orange clay	None
143	0-3	Black topsoil/humus	None
	3-21	Red clay	None
144	0-4	Brown soil	None
	4-21	Red clay	None
145	0-3	Black topsoil/humus	None
	3-10	Brown clay	None
	10-20	Tan/orange clay (wet)	None
146	0-4	Black topsoil/humus	None
	4-20	Red clay	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
147	0-5	Black topsoil/humus	None
	5-19	Red clay	None
148	0-5	Brown sandy soil	None
	5-20	Red clay	None
149	0-7	Brown sandy soil	1 pc. coal (discarded)
	7-22	Red clay	None
150	0-6	Black topsoil/humus	1 Gray chert flake
	6-21	Red clay	None
151	0-3	Black topsoil/humus	None
	3-8	Brown/gray sand	None
	8-20	Tan/orange sand; hard packed	None
152	0-5	Brown sandy soil	None
	5-19	Red clay	None
153	0-2	Brown sandy soil } disturbed	None
	2-3	Black soil } disturbed	None
	3-20	Brown sand } disturbed	None
154	0-5	Black topsoil/humus	None
	5-19	Brown sand	1 pc. thin green glass; 1 pc. clear glass (bottle?)
155	0-3	Black topsoil	None
	3-18	Brown sandy soil	None
156	0-5	Brown sandy soil	None
	5-20	Red clay	None
157	0-6	Black topsoil/humus	None
	6-20	Red clay	None
158	0-26	Red clay (no topsoil)	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
159	0-4	Black topsoil/humus	None
	4-19	Tan/orange clay	None
160	0-4	Black topsoil/humus	None
	4-20	Tan/gray sand (wet)	None
161	0-2	Red soil } disturbed	None
	2-4	Black topsoil } disturbed	None
	4-12	Brown sandy soil } disturbed	None
	12-18	Gray clay, hard packed	None
162	0-5	Black topsoil/humus	Iron bolt (discarded)
	5-18	Red clay	None
163	0-4	Black topsoil/humus	None
	4-19	Red clay	None
164	0-4	Black humus/topsoil	None
	4-26	Tan/orange sand	None
165	0-3	Black topsoil/humus	None
	3-20	Red clay	None
166	0-3	Black topsoil/humus	None
	3-20	Red clay	None
167	0-4	Black topsoil/humus	None
	4-21	Red clay	None
168	0-4	Black topsoil/humus	None
	4-22	Red clay	None
169	0-3	Black topsoil/humus	None
	3-19	Red clay	None
170	0-4	Black topsoil/humus	None
	4-19	Red clay	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
171	0-5	Black topsoil/humus	None
	5-20	Red clay	None
172	0-3	Black topsoil/humus	None
	3-18	Red clay	None
173	0-4	Black topsoil/humus	None
	4-20	Red sandy soil	None
174	0-5	Black topsoil/humus	None
	5-22	Red/brown clay	None
175	0-3	Black topsoil/humus	None
	3-8	Brown sandy soil	None
	8-20	Tan/orange soil/clay	None
176	0-4	Black topsoil/humus	None
	4-9	Gray sandy soil	None
	9-24	Tan/orange soil/clay	None
177	0-3	Black topsoil/humus	None
	3-25	Tan/brown sandy soil	None
178	0-3	Black topsoil/humus	None
	3-22	Tan/orange sandy soil	None
179	0-3	Black topsoil/humus	None
	3-23	Reddish/brown sandy soil	None
180	0-4	Black topsoil/humus	None
	4-25	Reddish/brown sandy soil	None
181	0-4	Black topsoil/humus	None
	4-10	Brown sandy soil	None
	10-21	Red clay	None
182	0-4	Black topsoil/humus	None
	4-19	Red sandy soil (wet)	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
183	0-4	Black topsoil/humus	None
	4-21	Light brown sandy soil	None
184	0-3	Black topsoil/humus	None
	3-8	Brown sandy soil	None
	8-21	Reddish/brown soil	None
185	0-5	Black topsoil/humus	None
	5-18	Red clay (wet)	None
186	0-5	Black topsoil/humus	1 pc. coal (discarded); spoon
	5-27	Tan/orange sand	None
187	0-3	Black topsoil/humus	None
	3-24	Tan/brown sand	None
188	0-4	Black topsoil/humus	None
	4-28	Tan/orange sand	None
189	0-4	Black topsoil/humus	None
	4-28	Tan/orange sand	None
190	0-4	Black topsoil/humus	None
	4-12	Brown sandy soil	None
	12-25	Tan/orange sand	None
191	0-3	Black topsoil/humus	None
	3-10	Brown sandy soil	None
	10-21	Tan/orange clay	None
192	0-5	Black topsoil/humus	None
	5-22	Tan/orange sand	None
193	0-6	Black topsoil/humus	None
	6-25	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
194	0-5	Black topsoil/humus	None
	5-10	Brown sandy soil	None
	10-22	Tan/orange sand	None
Building foundation, 18 X 36 ft., located approximately 150 feet east of South Avenue, constructed of poured concrete. Area littered with junked cars, tires, and building debris. Dirt road leads to the site.			
195	0-3	Black topsoil/humus	None
	3-11	Light gray sand	None
	11-29	Tan/orange sand	None
196	0-4	Black topsoil/humus	None
	4-25	Tan/orange sand	None
197	0-24	Black/brown sandy soil	None
198	0-5	Black topsoil/humus	None
	5-26	Tan/orange sand	None
199	0-5	Black topsoil/humus	None
	5-26	Tan/orange sand	None
200	0-5	Black topsoil	1 pc. coal
	5-26	Tan/orange sand	None
201	0-4	Black topsoil/humus	None
	4-22	Tan/brown sand	None
202	0-7	Black topsoil/humus	None
	7-27	Light gray sand	None
203	0-4	Black topsoil/humus	None
	4-28	Tan/orange sand	None
204	0-4	Black topsoil/humus	None
	4-10	Dark gray sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
205	0-5	Black topsoil/humus	None
	5-24	Dark gray sand	None
206	0-5	Black topsoil/humus	None
	5-12	Dark gray sand	None
	12-28	Light gray sand	None
207	0-4	Black topsoil/humus	None
	4-12	Dark gray sand	None
	12-21	Light gray sand	None
208	0-5	Black topsoil/humus	None
	5-13	Dark gray sand	None
	13-26	Light gray sand	None
209	0-5	Black topsoil/humus	None
	5-11	Brown sandy soil	None
	11-19	Tan/orange soil, hard packed	None
210	0-4	Black topsoil/humus	None
	4-26	Brown sandy soil	None
211	0-12	Disturbed black/brown/ orange sand	1 pc. auto windshield glass
	12-27	Tan/orange sand	None
212	0-3	Black topsoil/humus	None
	3-7	Brown sand	None
	7-26	Tan/orange sand	None
213	0-4	Black topsoil/humus	None
	4-26	Tan/orange sand	None
214	0-2	Gray sand	None
	2-27	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
215	0-3	Black topsoil/humus	None
	3-24	Tan/orange sand	None
216	0-5	Black topsoil/humus	None
	5-28	Tan/orange sand	None
217	0-3	Black topsoil/humus	None
	3-26	Tan/orange sand	None
218	0-4	Black topsoil/humus	None
	4-27	Tan/orange sand	None
219	0-5	Black topsoil/humus	None
	5-24	Tan/orange sand	None
220	0-4	Black topsoil/humus	None
	4-18	Tan/orange clay (?)	None
221	0-5	Black topsoil/humus	None
	5-22	Brown sandy soil	None
222	0-3	Black topsoil/humus	None
	3-11	Brown sandy soil	None
	11-17	Tan/orange clay, hard packed	None
223	0-3	Black topsoil/humus	None
	3-8	Brown sandy soil	None
	8-20	Red sandy soil	None
224	0-13	Black topsoil/humus	None
	13-18	Tan clay, hard	None
225	0-3	Black topsoil/humus	None
	3-21	Red sandy soil	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
226	0-3	Black topsoil/humus	None
	3-12	Black sandy soil	None
	12-19	Light gray clay	None
227	0-4	Black topsoil/humus	None
	4-20	Red/brown sandy soil	None
228	0-4	Black topsoil/humus	None
	4-9	Brown sandy soil	None
	9-20	Red clay, hard	None
229	0-4	Black topsoil/humus	None
	4-25	Tan/orange sand	None
230	0-4	Black topsoil/humus	None
	4-20	Reddish/brown sand	None
231	0-6	Black topsoil/humus	None
	6-18	Red clay, hard	None
232	0-5	Black topsoil/humus	None
	5-17	Red clay (wet)	None
233	0-4	Black topsoil/humus	None
	4-18	Red clay, hard and wet	None
234	0-4	Black topsoil/humus	None
	4-18	Red clay, wet and hard	None
235	0-5	Black topsoil/humus	None
	5-21	Red sandy soil	None
236	0-5	Black topsoil/humus	None
	5-18	Red clay, wet and hard	None
237	0-4	Black topsoil/humus	None
	4-20	Red clay, wet	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
238	0-5	Black topsoil/humus	None
	5-19	Red clay	None
239	0-3	Black topsoil/humus	None
	3-18	Reddish/brown clay	None
240	0-4	Black topsoil/humus	None
	4-20	Reddish/brown clay	None
241	0-4	Black topsoil/humus	None
	4-22	Reddish/brown sandy soil	None
242	0-3	Black topsoil/humus	None
	3-20	Red clay	None
243	0-3	Black topsoil/humus	None
	3-19	Red clay	None
244	0-3	Black topsoil/humus	None
	3-19	Red clay	None
245	0-2	Black topsoil/humus	None
	2-18	Red clay, very hard	None
246	0-4	Black topsoil/humus	None
	4-19	Red clay	None
568	0-3	Brown topsoil/humus	1 pc. coal
	3-19	Red clay, hard packed	None
569	0-4	Black topsoil/humus	None
	4-20	Red clay, wet	None
570	0-5	Black topsoil/humus	None
	5-22	Red clay, hard packed	None
571	0-4	Black/brown topsoil	None
	4-21	Red clay	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
572	0-3	Black topsoil/humus	None
	3-21	Red sand, claylike	None
573	0-3	Black topsoil/humus	None
	3-6	Brown/gray clay	None
	6-21	Gray/tan/orange clay	None
574	0-3	Black topsoil/humus	None
	3-9	Brown sandy soil	None
	9-28	Gray/tan sand	None
575	0-4	Black topsoil/humus	None
	4-25	Gray/tan sand	None
576	0-2	Black topsoil/humus	None
	2-25	Red sandy soil	None
577	0-3	Black topsoil/humus	None
	3-22	Tan/brown sand	None
578	0-6	Brown humus/leaves	None
	6-21	Dark gray clay	None
579	0-4	Black topsoil/humus	None
	4-21	Red claylike soil	None
580	0-5	Black topsoil/humus	None
	5-23	Tan/orange clay	None
581	0-4	Black topsoil/humus	None
	4-24	Gray/tan sand	None
582	0-4	Black topsoil/humus	None
	4-25	Light gray/tan/orange sand	None
Jan. 1983:			
594	0-3	Black topsoil/humus	None
	3-11	Gray/tan sand	None
	11-27	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Jan. 1983 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
595	0-4	Black topsoil/humus	None
	4-12	Gray sand	None
	12-21	Gray/tan/orange clay	None
596	0-10	Black topsoil/humus	None
	10-20	Gray clay, wet	None
597	0-3	Black topsoil/humus	None
	3-9	Brown sandy soil	None
	9-20	Tan/orange sand, hard packed	None
598	0-3	Black topsoil/humus	None
	3-10	Brown sandy soil	None
	10-22	Tan/orange claylike soil	None
599	0-3	Black topsoil/humus	None
	3-8	Dark gray sand	None
	8-21	Gray/tan/orange clay	None
600	0-4	Black topsoil/humus	None
	4-14	Brown sandy soil	None
	14-25	Tan/orange sand	None
601	0-4	Black topsoil/humus	None
	4-13	Brown sandy soil	None
	13-23	Tan/orange soil, hard packed	None
602	0-5	Black topsoil/humus	None
	5-11	Brown sandy soil	None
	11-18	Tan/orange soil, roots	None
603	0-5	Black topsoil/humus	None
	5-13	Brown sandy soil	None
	13-27	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Jan. 1983 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
604	0-3	Black topsoil and humus	None
	3-26	Reddish sandy soil with stones	None
605	0-4	Black topsoil/humus	None
	4-13	Brown sandy soil	None
	13-20	Tan/orange clay	None
606	0-10	Dark brown sandy topsoil	None
	10-15	Tan/orange clay and rock	None
607	0-4	Dark brown topsoil	None
	4-10	Brown sandy soil	None
	10-26	Tan/orange sand	None
608	0-16	Reddish sandy soil and rock; disturbed	None
609	0-4	Black topsoil/humus	None
	4-9	Brown sandy soil	None
	9-29	Tan/orange sand	None
610	0-4	Black topsoil and humus	None
	4-12	Light gray sand	None
	12-26	Tan/orange sand, wet	None
611	0-2	Brown topsoil	None
	2-20	Red clay	None
612	0-4	Black sandy topsoil/humus	None
	4-21	Tan/orange soil with rock, hard packed	None
613	0-3	Black topsoil/humus	None
	3-19	Dark gray clay	None
614	0-4	Black topsoil/humus	None
	4-8	Light gray sand	None
	8-22	Tan/orange sand and shale	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Jan. 1983 Section: I

Test No.	Depth (in.)	Description of Strata	Cultural Remains
615	0-6	Black topsoil/humus	None
	6-11	Brown sandy soil	None
	11-25	Bright red/orange sand	None
616	0-2	Black topsoil and humus	None
	2-5	Brown sandy soil	None
	5-16	Reddish sandy/clay with roots	None
617	0-3	Black topsoil and humus	None
	3-8	Brown sand	None
	8-22	Reddish sand/clay	None
618	0-3	Black topsoil/humus	None
	3-7	Brown sand	None
	7-21	Tan/orange sand	None
619	0-2	Black topsoil/humus	None
	2-5	Brown sandy soil	None
	5-14	Reddish sandy soil	None
	14-21	Tan clay, hard packed	None
620	0-3	Black topsoil/humus	None
	3-9	Brown sandy soil	None
	9-22	Reddish sand/clay	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: II

Test No.	Depth (in.)	Description of Strata	Cultural Remains
317	0-4	Black topsoil/humus	None
	4-10	Brown soil	None
	10-24	Tan/orange sand	None
318	0-7	Black topsoil/humus	None
	7-13	Brown sand	None
	13-25	Tan/orange sand	None
319	0-12	Black topsoil/humus	None
	12-15	Brown sand	None
	15-24	Tan/orange sand	None
320	0-15	Black topsoil	None
	15-26	Tan/orange sand	None
321	0-14	Black sandy soil	None
	14-18	Gray sand/water	None
322	0-13	Black sandy soil	None
	13-15	Gray sand/water	None
323	0-9	Black topsoil/humus	None
	9-17	Black sand	None
	17-24	Gray sand	None
324	0-7	Black topsoil/humus	None
	7-21	Tan/orange sand	None
325	0-5	Black topsoil/humus	None
	5-11	Brown sand	None
	11-27	Tan/orange sand	None
326	0-5	Black topsoil/humus	None
	5-11	Black/gray sand	None
	11-25	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: II

Test No.	Depth (in.)	Description of Strata	Cultural Remains
327	0-3	Black topsoil/humus	None
	3-19	Black/gray sand	None
328	0-3	Black topsoil/humus	None
	3-20	Black/gray sand	None
329	0-3	Black topsoil/humus	None
	3-29	Tan/orange sand	None
330	0-5	Black topsoil/humus	None
	5-29	Tan/orange sand	None
331	0-3	Black topsoil/humus	None
	3-9	Dark gray clay	None
	9-19	Light gray sand	None
332	0-3	Black topsoil/humus	None
	3-20	Black/gray sand	None
333	0-5	Black topsoil/humus	None
	5-27	Tan/orange sand	None
334	0-3	Black topsoil/humus	None
	3-7	Brown sand	None
	7-29	Tan/orange sand	None
335	0-3	Black topsoil/humus	None
	3-8	Brown sand	None
	8-21	Tan/orange sand	None
336	0-6	Black topsoil/humus	None
	6-10	Dark gray sand	None
	10-22	Light gray sand	None
337	0-4	Black topsoil/humus	None
	4-8	Brown/gray sand	None
	8-28	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: II

Test No.	Depth (in.)	Description of Strata	Cultural Remains
338	0-2	Black topsoil/humus	None
	2-5	Brown/gray sand	None
	5-28	Tan/orange sand	None
339	0-5	Black topsoil/humus	None
	5-16	Black/gray sand (water)	None
340	0-6	Black topsoil/humus	4 frags. clear glass (discarded)
	6-10	Black/gray sand	None
	10-15	Tan/sand and water	None
341	0-4	Black topsoil/humus	None
	4-7	Brown sand	None
	7-27	Tan/orange sand	None
342	0-3	Black topsoil/humus	None
	3-5	Brown sand	None
	5-24	Tan/orange sand	None
343	0-4	Black topsoil/humus	None
	4-9	Dark gray sand	None
	9-12	Tan sand/water	None
344	0-6	Black topsoil/humus	None
	6-10	Dark gray sand	None
	10-24	Tan/gray sand, water	None
345	0-4	Black topsoil/humus	None
	4-9	Brown sand	None
	9-33	Tan/orange sand	None
346	0-4	Black topsoil/humus	None
	4-10	Brown sand	None
	10-30	Tan/orange sand/water	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: II

Test No.	Depth (in.)	Description of Strata	Cultural Remains
347	0-3	Black topsoil/humus	None
	3-6	Brown sand	None
	6-26	Tan/orange sand	None
348	0-3	Black topsoil/humus	None
	3-7	Brown sand	None
	7-27	Tan/orange sand	None
349	0-3	Black topsoil/humus	None
	3-10	Mixed brown/orange sand	None
	10-32	Tan/orange sand	None
350	0-5	Black topsoil/humus	None
	5-20	Tan sand with red streaks; water at 18 in.	None
351	0-3	Black topsoil/humus	None
	3-8	Brown sand	None
	8-28	Gray sand; water at 23 in.	None
352	0-3	Black topsoil/humus	None
	3-6	Black/gray sand	None
	6-24	Tan/orange sand	None
354*	0-4	Black topsoil/humus	None
	4-9	Black/gray sand	None
	9-29	Tan sand with splotches of red sand	None
583	0-7	Black topsoil/sand/ humus	None
	7-32	Tan/orange sand	None

*Note: Owing to a numbering mistake, there is no test 353

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: II

Test No.	Depth (in.)	Description of Strata	Cultural Remains
584	0-2	Black/gray sand	None
	2-33	Tan/orange sand	None
585	0-9	Black topsoil/humus	None
	9-16	Reddish/brown soil, roots	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: III

Test No.	Depth (in.)	Description of Strata	Cultural Remains
247	0-3	Black topsoil/humus	None
	3-12	Black/gray sand	None
	12-29	Gray sand	None
248	0-5	Black topsoil/humus	None
	5-15	Black/gray sand	None
	15-28	Gray sand	None
249	0-20	Black topsoil/humus	None
	20-29	Black/gray sand	None
250	0-3	Brown humus layer	None
	3-11	Black/gray sand	None
	11-29	Gray sand	None
251	0-3	Black/brown humus	None
	3-12	Black/gray sand	None
	12-27	Gray sand	None
252	0-6	Black topsoil/humus	None
	6-21	Tan/orange sand	None
253	0-3	Black topsoil/humus	None
	3-13	Light gray/black sand	None
	13-27	Gray sand	None
254	0-4	Brown humus/leaves	None
	4-16	Black/gray sand	None
	16-26	Gray sand	None
255	0-10	Black/gray sandy topsoil	None
	10-28	Tan/orange sand	None
256	0-5	Black sandy topsoil/humus	None
	5-27	Tan/orange sand	None
257	0-6	Black sandy topsoil	None
	6-26	Gray sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: III

Test No.	Depth (in.)	Description of Strata	Cultural Remains
258	0-6	Black topsoil	None
	6-10	Brown sand	None
	10-22	Tan sand	None
259	0-10	Black sandy topsoil/humus	None
	10-27	Gray sand	None
260	0-5	Black sandy topsoil	None
	5-26	Tan/orange sand	None
261	0-7	Black topsoil	None
	7-13	Dark gray sand	None
	13-26	Tan/orange sand	None
262	0-6	Black topsoil/humus	None
	6-15	Black/brown sand	None
	15-26	Tan/orange sand	None
263	0-7	Black topsoil/humus	None
	7-14	Black sandy soil	None
	14-22	Gray sand, water	None
264	0-10	Black sandy topsoil	None
	10-20	Gray sand, water	None
265	0-16	Black topsoil; water level	None
266	0-4	Black topsoil/humus	None
	4-12	Black sandy soil	None
	12-26	Gray sand	None
267	0-3	Black topsoil/humus	None
	3-6	Gray sand	None
	6-29	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: III

Test No.	Depth (in.)	Description of Strata	Cultural Remains
268	0-4	Black topsoil/humus	None
	4-12	Black sandy soil	None
	12-24	Gray sand	None
269	0-8	Black sandy topsoil	None
	8-26	Tan/orange sand	None
270	0-4	Black sandy topsoil	None
	4-25	Tan/orange sand	None
271	0-7	Black sandy topsoil	None
	7-29	Gray sand	None
272	0-7	Black sandy topsoil	None
	7-25	Tan/orange sand	None
273	0-8	Black sandy topsoil	None
	8-26	Tan/orange sand	None
274	0-15	Black sandy topsoil	None
	15-24	Gray sand	None
275	0-14	Black sandy topsoil	None
	14-23	Gray sand	None
276	0-4	Brown humus/leaves	None
	4-16	Black sandy soil	None
	16-26	Brown sand	None
277	0-14	Black/gray sand	None
	14-20	Gray sand	None
278	0-13	Black sandy soil	None
	13-26	Gray sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: III

Test No.	Depth (in.)	Description of Strata	Cultural Remains
279	0-6	Black topsoil (sandy)	None
	6-20	Tan/orange sand	None
280	0-3	Black topsoil/humus	None
	3-5	Brown sand	None
	5-29	Tan/orange sand	None
281	0-4	Black topsoil/humus	None
	4-22	Tan/orange sand	None
282	0-3	Black topsoil/humus	None
	3-6	Brown sand	None
	6-29	Tan/orange sand	None
283	0-6	Black sandy topsoil/ humus	None
	6-26	Light gray sand	None
284	0-2	Black topsoil/humus	None
	2-4	Brown sand	None
	4-27	Tan/orange sand	None
285	0-4	Black topsoil/humus	None
	4-7	Brown sand	None
	7-24	Tan/orange sand	None
286	0-4	Black topsoil/humus	None
	4-6	Black/brown sand	None
	6-24	Tan/orange sand	None
287	0-2	Black topsoil (sandy)	None
	2-27	Tan/orange sand	None
288	0-3	Black topsoil/humus	None
	3-6	Brown sand	None
	6-25	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: III

Test No.	Depth (in.)	Description of Strata	Cultural Remains
289	0-4	Black topsoil/humus	None
	4-8	Brown sand	None
	8-24	Tan/orange sand	None
290	0-4	Black topsoil/humus	None
	4-6	Brown sand	None
	6-23	Tan/orange sand	None
291	0-4	Black topsoil/humus	None
	4-10	Black/gray sand	None
	10-24	Light gray sand	None
292	0-5	Black sandy soil	None
	5-29	Light gray sand	None
293	0-5	Black topsoil/humus	None
	5-9	Black/brown sand	None
	9-23	Tan/orange sand	None
294	0-6	Black topsoil/humus	None
	6-29	Tan/orange sand	None
295	0-3	Black topsoil/humus	None
	3-6	Black/gray sand	None
	6-22	Tan/orange sand	None
296	0-18	Black/gray/orange sand; disturbed	None
297	0-4	Black topsoil/humus	None
	4-7	Black sandy soil	None
	7-28	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: III

Test No.	Depth (in.)	Description of Strata	Cultural Remains
298	0-2	Black topsoil/humus	None
	2-4	Brown sand	None
	4-29	Tan/orange sand	None
299	0-3	Black topsoil/humus	None
	3-5	Black/gray sand	None
	5-29	Tan/orange sand	None
300	0-1	Brown mulch/humus	None
	1-4	Black topsoil	None
	4-7	Brown sand	None
	7-28	Tan/orange sand	None
301	0-6	Black topsoil/humus	None
	6-21	Dark gray sand	None
302	0-6	Black topsoil/humus	None
	6-22	Dark gray sand	None
303	0-5	Black topsoil/humus	None
	5-26	Black/gray sand	None
304	0-3	Black topsoil/humus	None
	3-5	Black/gray sand	None
	5-27	Light gray sand	None
305	0-4	Black topsoil/humus	None
	4-21	Black/gray sand	None
306	0-8	Black topsoil/humus	None
	8-21	Brown sand	None
307	0-4	Black topsoil/humus	None
	4-8	Brown sand	None
	8-22	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: III

Test No.	Depth (in.)	Description of Strata	Cultural Remains
308	0-3	Black topsoil/humus	None
	3-7	Brown sand	None
	7-22	Tan/orange sand	None
309	0-2	Black topsoil/humus	None
	2-6	Brown/gray sand	None
	6-23	Tan/orange sand	None
310	0-7	Brown sand	None
	7-26	Tan/orange sand	None
311	0-3	Black topsoil/humus	None
	3-8	Brown sand	None
	8-24	Tan/orange sand	None
312	0-6	Black topsoil/humus	None
	6-8	Brown sand	None
	8-24	Tan/orange sand	None
313	0-3	Black topsoil/humus	1 pc. asphalt (discarded)
	3-6	Brown sand	None
	6-23	Tan/orange sand	None
314	0-7	Black topsoil/humus	None
	7-9	Brown sand	None
	9-26	Tan/orange sand	None
315	0-2	Brown leaf mold/humus	Nonw
	2-5	Black sandy soil	None
	5-7	Gray (light) sand	None
	7-26	Brown (wet) sand	None
316	0-11	Black sandy soil/humus	None
	11-27	Light gray sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: III

Test No.	Depth (in.)	Description of Strata	Cultural Remains
551	0-36	Tan/orange sand	None
552	0-3	Black topsoil	None
	3-6	Brown sand	None
	6-32	Tan/orange sand	None
553	0-37	Tan/orange sand	None
554	0-34	Tan/orange sand	None
555	0-5	Black topsoil	None
	5-29	Tan/orange sand	None
556	0-3	Brown sand	None
	3-7	Red sand--dense, hard packed	None
	7-22	Tan/orange sand	None
557	0-8	Gray/tan/orange sand	None
	8-20	Black soil; disturbed	3 pcs. coal
558	0-15	Brown soil with coal ash, building material (concrete), wood, coal; disturbed	None
559	0-38	Tan/orange sand	None
560	0-8	Tan/orange sand	None
	8-16	Black soil with coal	None
561	0-3	Tan/pink sand	None
	3-13	Mixed gray/tan and orange sand	None
	13-17	Black soil with ash	None
	17-24	Black sand	None
562	0-14	Brown/orange/black sand; disturbed	Bits of rusted iron; cow bone
	14-29	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: III

Test No.	Depth (in.)	Description of Strata	Cultural Remains
563	0-8	Reddish/tan sand	None
	8-?	Concrete	None
586	0-11	Black sandy topsoil	None
	11-21	Light gray sand	None
587	0-4	Brown sandy soil	None
	4-24	Tan/orange sand	None
588	0-10	Mixed black, tan, and orange soil (disturbed)	None
	10-29	Tan/orange sand	None
589	0-2	Black topsoil/humus	None
	2-32	Tan/orange sand	None
590	0-6	Black topsoil/humus	None
	6-28	Tan/orange sand	None
591	0-14	Tan sand and black soil, mixed; disturbed	None
	14-26	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
355	0-3	Brown topsoil/leaves	None
	3-27	Tan/orange sand	None
356	0-10	Black/gray sand	None
	10-18	Red brown soil, hard packed	None
357	0-4	Black topsoil/humus	None
	4-10	Black/gray sand	None
	10-25	Tan sand	None
358	0-6	Black/gray sand	None
	6-28	Tan/orange sand	None
359	0-4	Black topsoil/humus	None
	4-10	Black/gray sand	None
	10-29	Tan/orange sand	None
360	0-5	Brown topsoil/loam	None
	5-12	Black/gray sand	None
	12-18	Tan sand, hard packed	None
361	0-10	Black/gray sandy soil	None
	10-22	Tan/orange sand	None
362	0-13	Black topsoil/humus	None
	13-23	Tan/orange sand	None
363	0-3	Black topsoil/humus	None
	3-10	Black/gray sand	None
	10-12	Black topsoil	None
	12-28	Tan/brown sand	None
364	0-8	Black topsoil/humus	None
	8-24	Tan/brown sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
365	0-9	Black topsoil/humus	None
	9-28	Tan/orange sand	None
366	0-4	Black topsoil/humus	None
	4-7	Brown sandy soil	None
	7-26	Tan/orange sand	None
367	0-3	Black topsoil	None
	3-24	Tan/orange sand	None
368	0-4	Black topsoil	None
	4-12	Brown sand	None
	12-26	Tan/orange sand	None
369	0-14	Black/gray sand	None
	14-27	Tan/orange sand	None
370	0-12	Black topsoil/humus; water encountered	None
371	0-5	Black topsoil/humus	None
	5-14	Gray muck, water	None
372	0-4	Black topsoil	None
	4-8	Brown sand	None
	8-26	Tan/orange sand	None
373	0-7	Black topsoil/humus	None
	7-11	Dark gray clay	None
	11-19	Tan/orange/gray clay, water	None
374	0-3	Black topsoil/humus	None
	3-12	Tan/orange sand	None
	12-22	Brown sandy soil	None
	22-24	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
375	0-5	Black topsoil/humus	None
	5-17	Gray muck (wet)	None
376	0-5	Black topsoil	None
	5-9	Brown sand	None
	9-26	Tan/orange sand	None
377	0-5	Black topsoil	None
	5-7	Brown sand	None
	7-29	Tan/orange sand	None
378	0-5	Black topsoil	None
	5-16	Dark gray sand, water	None
379	0-4	Black topsoil	None
	4-18	Black/gray muck	None
380	0-9	Black topsoil	None
	9-16	Tan/gray sand, water	None
381	0-10	Black topsoil	None
	10-16	Light gray sand, water	None
382	0-4	Black topsoil	None
	4-8	Brown sand	None
	8-24	Tan/orange sand	None
383	0-8	Black topsoil	None
	8-14	Brown sand	None
	14-26	Tan/orange sand	None
384	0-7	Black topsoil	None
	7-11	Dark gray sand	None
	11-16	Tan/gray sand, water	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
385	0-5	Black topsoil	None
	5-15	Dark gray sand	None
	15-26	Tan/gray sand	None
386	0-5	Black topsoil/humus	None
	5-7	Brown sand	None
	7-26	Tan/orange sand	None
387	0-4	Black topsoil/humus	None
	4-7	Brown sand	None
	7-25	Tan/orange sand	None
388	0-3	Black topsoil/humus	None
	3-13	Brown sand	None
	13-24	Tan/orange sand	None
389	0-3	Black topsoil/humus	None
	3-5	Brown sand	None
	5-27	Tan/orange sand	None
390	0-4	Black topsoil/humus	None
	4-7	Brown sand	None
	7-24	Tan/orange sand	None
391	0-3	Black topsoil/humus	None
	3-6	Brown sand	None
	6-24	Tan/orange sand	None
392	0-4	Black topsoil/humus	None
	4-7	Brown sand	None
	7-25	Tan/orange sand	None
393	0-4	Black topsoil/humus	None
	4-6	Brown sand	None
	6-23	Tan/orange sand	1 Tan/brown argillite flake

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
394	0-3	Black topsoil/humus	None
	3-6	Brown sand	None
	6-22	Tan/orange sand	None
395	0-6	Black topsoil/humus	None
	6-34	Tan/orange sand	None
396	0-3	Black topsoil/humus	None
	3-6	Brown sand	None
	6-26	Tan/orange sand	None
397	0-4	Black topsoil/humus	None
	4-6	Brown sand	None
	6-22	Tan/orange sand	None
398	0-2	Black topsoil/humus	None
	2-4	Brown sand	None
	4-25	Tan/orange sand	None
399	0-2	Black topsoil/humus	None
	2-4	Brown sand	None
	4-28	Tan/orange sand	None
400	0-3	Black topsoil/humus	None
	3-5	Brown sand	None
	5-26	Tan/orange sand	None
401	0-4	Black topsoil/humus	None
	4-7	Brown sand	None
	7-22	Tan/orange sand	None
402	0-15	Black topsoil/humus	None
	15-29	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
403	0-2	Black topsoil	None
	2-7	Brown sand	None
	7-10	Black sandy soil	None
	10-29	Tan/orange sand	None
404	0-3	Brown sand	None
	3-11	Tan/orange sand	None
	11-15	Light gray sand	None
	15-19	Black sandy soil (original surface)	None
	19-28	Tan/orange sand	None
405	0-5	Black topsoil/humus	None
	5-10	Brown sand	None
	10-24	Tan/orange sand	None
406	0-6	Black topsoil/humus	None
	6-16	Black/gray sand	None
	16-22	Tan/orange sand	None
407	0-3	Black topsoil/humus	None
	3-8	Brown sand	None
	8-24	Tan/orange sand	None
408	0-10	Black/gray sandy soil	None
	10-27	Tan/orange sand	None
409	0-3	Black topsoil/humus	None
	3-6	Brown sand	None
	6-28	Tan/orange sand	None
410	0-3	Brown humus	None
	3-9	Black sandy soil	None
	9-14	Tan/gray sand	None
	14-22	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
411	0-2	Brown humus	None
	2-4	Black sandy soil	None
	4-28	Tan/orange sand	None
412	0-4	Black topsoil/humus	None
	4-14	Brown sand	None
	14-26	Tan/orange sand	None
413	0-3	Black topsoil/humus	None
	3-10	Black/gray sand	None
	10-28	Tan/orange sand	None
414	0-4	Brown topsoil/grass	2 pcs. coal; 3 small pcs. milk glass; spark plug; flowerpot frag.
	4-7	Black/gray/orange sand, mixed; disturbed	None
	7-26	Tan/orange sand	None
415	0-3	Black topsoil/humus	None
	3-13	Brown sand	None
	3-13	Brown sand	None
	13-32	Tan/orange sand	None
416	0-6	Black topsoil/humus	1 Brick frag. (discarded)
	6-16	Brown sand	None
	16-24	Tan/orange sand	None
417	0-4	Black topsoil/humus	None
	4-10	Black/gray sand	None
	10-15	Brown sand	None
	15-28	Tan/orange sand	None
418	0-5	Black sandy soil	None
	5-9	Brown sand	None
	9-26	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
419	0-4	Black topsoil/humus	None
	4-20	Mixed black/gray/orange sand; disturbed	None
	20-25	Tan/orange sand	None
420	0-3	Black topsoil/humus	None
	3-13	Black/gray sand	None
	13-24	Tan/orange sand	None
421	0-4	Mixed black/red/gray sand; disturbed	None
	4-14	Dark gray sand	None
	14-24	Tan/orange sand	None
422	0-4	Black topsoil/humus	None
	4-16	Brown/tan sand	None
	16-34	Tan/orange sand	None
423	0-7	Mixed brown/tan/gray sand; disturbed	None
	7-16	Tan/orange; disturbed	None
	16-21	Black sand; disturbed	None
	21-28	Tan/orange sand	None
424	0-5	Black topsoil/humus	None
	5-16	Black/gray sand	None
	16-26	Tan/orange sand	None
425	0-2	Brown humus	None
	2-14	Black/gray sand	None
	14-25	Tan/gray/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
426	0-4	Brown sand/humus	None
	4-8	Reddish sand	None
	8-18	Black sandy soil	None
	18-25	Tan/orange sand	None
427	0-4	Black topsoil/humus	None
	4-6	Black/gray sand	None
	6-27	Tan/orange sand	None
428	0-4	Black topsoil/humus	None
	4-11	Brown sand	None
	11-27	Tan/orange sand	None.
429	0-3	Black topsoil/humus	None
	3-11	Black sandy soil	None
	11-25	Tan/orange sand	None
430	0-8	Brown sand	None
	8-24	Tan/orange sand	None
431	0-8	Black/brown topsoil	None
	8-23	Tan/orange sand; hard packed	None
432	0-9	Brown sand/grass	None
	9-27	Tan/orange sand	None
433	0-2	Brown humus	None
	2-9	Brown/gray sand	None
	9-29	Tan/orange sand	None
434	0-4	Brown sand	None
	4-15	Mixed black/gray/tan/ orange sand	None
	15-22	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
435	0-4	Brown humus and sand	None
	4-11	Mixed brown/tan/gray sand	None
	11-26	Tan/orange sand	None
436	0-8	Brown sandy loam	None
	8-24	Tan/orange sand	None
437	0-3	Black topsoil/humus	None
	3-7	Brown sand	None
	7-23	Tan/orange sand	None
438	0-5	Brown topsoil; disturbed	1 pc. iron wire (discarded)
	5-8	Black sand; disturbed	None
	8-13	Brown sand; disturbed	None
	13-25	Tan/orange sand	None
439	0-4	Brown/gray sand	None
	4-24	Tan/orange sand	None
440	0-5	Black/gray sand	None
	5-13	Tan/gray sand	None
	13-23	Tan/orange sand	None
441	0-6	Brown/gray sand	None
	6-25	Tan/orange sand	None
442	0-5	Black topsoil/humus	None
	5-9	Dark gray sand	None
	9-15	Gray/brown sand	None
	15-21	Brown sand	None
443	0-7	Black topsoil/humus	None
	7-10	Brown sand	None
	10-25	Reddish/tan sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
444	0-4	Brown humus	None
	4-12	Tan/orange sand	None
	12-19	Black sand	None
	19-22	Gray clay	None
445	0-6	Black topsoil/humus	None
	6-11	Black/gray sand	None
	11-24	Tan/orange sand	None
446	0-8	Black topsoil	None
	8-25	Brown sand	None
447	0-7	Black topsoil/sand	None
	7-24	Tan/orange sand	None
448	0-5	Black topsoil/humus	None
	5-26	Tan/orange sand	None
449	0-4	Black topsoil/humus	None
	4-28	Tan/orange sand	None
450	0-3	Black topsoil/humus	None
	3-27	Tan/orange sand	None
451	0-3	Black topsoil/humus	None
	3-27	Tan/orange sand	None
452	0-4	Black topsoil/humus	None
	4-6	Brown/gray sand	None
	6-28	Tan/orange sand	None
453	0-2	Black topsoil/humus	None
	2-26	Tan/orange sand	None
454	0-3	Black topsoil/humus	None
	3-5	Brown sand	None
	5-29	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
455	0-6	Black topsoil/humus	None
	6-24	Tan/orange sand	None
456	0-6	Black topsoil/humus	None
	6-24	Tan/orange sand	None
457	0-3	Brown sand	None
	3-26	Tan/orange sand	None
458	0-2	Black topsoil	None
	2-3	Brown sand	None
	3-25	Tan/orange sand	None
459	0-3	Black topsoil/humus	None
	3-6	Brown sand	None
	6-24	Tan/orange sand	None
460	0-4	Black topsoil/humus	None
	4-8	Brown sand	None
	8-26	Tan/orange sand	None
564	0-4	Black topsoil/humus	None
	4-13	Black sandy soil	None
	13-26	Gray/tan sand	None
565	0-3	Black topsoil/humus	None
	3-14	Black sand	None
	14-25	Tan/gray sand	None
566	0-6	Black topsoil/humus	None
	6-24	Brown sand	None
567	0-4	Black topsoil/humus	None
	4-23	Brown sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: IV

Test No.	Depth (in.)	Description of Strata	Cultural Remains
592	0-2	Black sandy soil	None
	2-24	Tan/orange sand	None
593	0-27	Tan/orange sand (no topsoil cover)	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: Brian Morrell Date: Dec. 1982 Section: V

Test No.	Depth (in.)	Description of Strata	Cultural Remains
461	0-3	Black humus	None
	3-7	Light brown sandy soil	None
	7-23	Yellow sandy soil	None
462	0-3	Black humus	None
	3-6	Light brown sandy soil	None
	6-24	Yellow sandy soil	None
463	0-3	Black humus	None
	3-7	Light brown sandy soil	None
	7-22	Yellow tan sand	None
464	0-3	Black topsoil and humus	None
	3-6	Light brown sandy soil	None
	6-24	Yellow sandy soil	None
465	0-3	Black topsoil and humus	None
	3-7	Light brown sandy soil	None
	7-24	Yellow sandy soil	None
466	0-3	Black topsoil and humus	None
	3-7	Brown sandy soil	None
	7-26	Tan sand	None
467	0-3	Black topsoil and humus	None
	3-6	Brown sandy soil	None
	6-22	Yellow sand	None
468	0-3	Black topsoil and humus	None
	3-6	Light brown sandy soil	None
	6-26	Yellow sandy soil	None
469	0-8	Black topsoil and humus	None
	8-13	Light brown sandy soil	None
	13-24	Yellow sandy soil	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: Brian Morrell Date: Dec. 1982 Section: V

Test No.	Depth (in.)	Description of Strata	Cultural Remains
470	0-3	Black topsoil and humus	None
	3-7	Light brown sandy soil	None
	7-22	Yellow sand, wet; water at bottom	None
471	0-4	Black topsoil and humus	None
	4-7	Light brown sandy soil	None
	7-24	Yellow sandy soil; water at bottom	None
472	0-4	Black topsoil and humus	None
	4-14	Dark brown sandy soil	None
	14-16	Black sand; disturbed	1 recent clear glass frag. (discarded)
	16-24	Tan sand, yellow at bottom	None
473	0-3	Black topsoil and humus	1 pc. coal
	3-11	Brown sandy soil	None
	11-26	Yellow sand	None
474	0-3	Humus	None
	3-26	Yellow sand	None
475	0-3	Black topsoil and humus	None
	3-24	Yellow sand; water at bottom	None
476	0-5	Black topsoil and humus	None
	5-25	Yellow sand; water at bottom	None
477	0-11	Brown disturbed loam	None
	11-26	Yellow sand	None
478	0-7	Black topsoil/humus	None
	7-11	Dark brown sand	None
	11-25	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: Brian Morrell Date: Dec. 1982 Section: V

Test No.	Depth (in.)	Description of Strata	Cultural Remains
479	0-5	Black topsoil/humus	None
	5-11	Brown sand	None
	11-23	Tan/gray sand	None
480	0-4	Black topsoil/humus	None
	4-9	Black/gray sand	None
	9-22	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: VI

Test No.	Depth (in.)	Description of Strata	Cultural Remains
499	0-7	Black topsoil/humus	None
	7-12	Mottled gray/black sand	None
	12-29	Tan/orange sand	None
500	0-5	Black topsoil/humus	None
	5-11	Black/gray sand	None
	11-24	Tan/orange sand	None
501	0-6	Black topsoil/sand and humus	None
	6-8	Brown sand	None
	8-26	Tan/orange sand	None
502	0-8	Black topsoil/humus	None
	8-11	Brown sand	None
	11-22	Tan/orange sand	None
503	0-5	Black topsoil/humus	None
	5-9	Brown sandy soil	None
	9-23	Tan/orange sand	None
504	0-6	Black topsoil/humus	None
	6-8	Brown sand	None
	8-26	Tan/orange sand	None
505	0-6	Black topsoil/humus	None
	6-12	Tan/gray sand	None
	12-24	Tan/orange sand	None
506	0-5	Black topsoil/humus	None
	5-8	Brown sand	None
	8-22	Tan/orange sand	None
507	0-6	Black topsoil/humus	None
	6-18	Gray/brown sand	None
	18-29	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: VI

Test No.	Depth (in.)	Description of Strata	Cultural Remains
508	0-6	Black topsoil/humus	None
	6-10	Brown sand	None
	10-22	Tan/orange sand	None
509	0-4	Black topsoil/humus	None
	4-8	Brown sand	None
	8-24	Tan/orange sand	None
510	0-3	Black topsoil/humus	None
	3-8	Brown sand	None
	8-26	Tan/orange sand	None
511	0-4	Black topsoil/humus	1 pc. coal (discarded)
	4-8	Brown sand	None
	8-29	Tan/orange sand	None
512	0-3	Black topsoil/humus	None
	3-12	Brown sand	None
	12-28	Tan/orange sand	None
513	0-3	Black topsoil/humus	None
	3-7	Brown sand	None
	7-25	Tan/orange sand	None
514	0-3	Black topsoil/humus	None
	3-7	Brown sand	None
	7-24	Tan/orange sand	None
515	0-4	Black topsoil/humus	None
	4-9	Brown sand	None
	9-26	Tan/orange sand	None
516	0-5	Black topsoil/humus	1 pc. coal
	5-13	Brown sand	None
	13-24	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: VI

Test No.	Depth (in.)	Description of Strata	Cultural Remains
517	0-5	Black topsoil/humus	1 pc. coal (discarded)
	5-8	Brown sand	None
	8-24	Tan/orange sand	None
518	0-4	Black topsoil/humus	None
	4-9	Brown sand	None
	9-27	Tan/orange sand	None
519	0-4	Black topsoil/humus	1 pc. coal (discarded)
	4-8	Brown sand	None
	8-22	Tan/orange sand	None
520	0-3	Black topsoil/humus	1 pc. cinder
	3-10	Brown sand	None
	10-24	Tan/orange sand	None
521	0-4	Black topsoil/humus	1 pc. cinder (discarded)
	4-7	Brown sand	None
	7-26	Tan/orange sand	None
522	0-6	Black topsoil	None
	6-30	Tan/orange sand	None
523	0-3	Black topsoil/humus	1 pc. bottle glass
	3-12	Brown sand	None
	12-24	Tan/orange sand	None
524	0-6	Black sand	None
	6-12	Black/gray mixed sand	None
	12-28	Tan/orange sand	None
525	0-7	Black/brown sand; disturbed	1 pc. window glass, 1 pc. pressed glass; 2 frags. whiteware; 1 frag. porcelain
	7-25	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: VI

Test No.	Depth (in.)	Description of Strata	Cultural Remains
526	0-3	Black topsoil/humus	None
	3-9	Brown sand	None
	9-14	Gray sand	None
	14-28	Tan/gray/orange sand	None
527	0-4	Black topsoil/humus	None
	4-8	Brown sand	None
	8-25	Tan/orange sand	None
528	0-4	Black topsoil/humus	None
	4-9	Bray/brown sand	None
	9-26	Tan/orange sand	None
529	0-5	Black topsoil/humus	None
	5-8	Gray/brown sand	None
	8-24	Red/tan/orange sand	None
530	0-6	Black topsoil/humus	None
	6-27	Tan/gray sand	None
531	0-2	Black topsoil/humus	None
	2-14	Black sand	None
	14-28	Gray/tan/orange sand	None
532	0-8	Black topsoil/humus	None
	8-27	Dark and light gray sand and tan/orange sand	None
533	0-5	Black topsoil/humus	None
	5-13	Black sand	None
	13-22	Gray/tan/orange sand	None
534	0-3	Black topsoil/humus	None
	3-7	Brown sand	None
	7-29	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: VI

Test No.	Depth (in.)	Description of Strata	Cultural Remains
535	0-3	Black topsoil/humus	None
	3-10	Dark gray sand	None
	10-27	Gray/orange/tan sand	None
536	0-4	Black topsoil/humus	None
	4-11	Dark gray sand	None
	11-29	Gray/tan/orange sand	None
537	0-4	Black topsoil/humus	None
	4-11	Brown sand	None
	11-28	Gray/tan/orange sand	None
538	0-4	Black topsoil/humus	None
	4-10	Brown sand	None
	10-22	Gray/tan/orange sand	None
539	0-3	Black topsoil/humus	None
	3-9	Gray/brown sand	None
	9-29	Gray/tan/orange sand	None
540	0-3	Black topsoil/humus	None
	3-13	Dark gray sand	None
	13-22	Light gray sand, water	None
541	0-3	Black tospoil/humus	None
	3-14	Brown sand	None
	14-28	Tan/orange sand	None
542	0-3	Black topsoil/humus	None
	3-9	Brown/gray sand	None
	9-24	Gray/tan/orange sand	None
543	0-3	Black topsoil/humus	None
	3-15	Brown sand	None
	15-23	Gray/tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: VI

Test No.	Depth (in.)	Description of Strata	Cultural Remains
544	0-5	Black topsoil/humus	None
	5-14	Brown sand	None
	14-27	Gray/tan/orange sand	None
545	0-4	Black topsoil/humus	None
	4-7	Brown sand	None
	7-28	Tan/orange sand	None
546	0-4	Black topsoil/humus	None
	4-12	Brown sand	None
	12-22	Tan/orange sand	None
547	0-2	Brown humus (fill)	None
	2-7	Light gray sand (fill)	None
	7-9	Black topsoil/humus	None
	9-13	Brown sand	None
	13-25	Tan/orange sand	None
548	0-4	Black topsoil/humus	None
	4-10	Brown sand	None
	10-22	Tan/orange sand	None
549	0-3	Brown humus and red clay	None
	3-29	Tan/orange sand	None
550	0-5	Black topsoil/humus	None
	5-8	Brown sandy soil	None
	8-26	Tan/orange sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: Brian Morrell Date: Dec. 1982 Section: VII

Test No.	Depth (in.)	Description of Strata	Cultural Remains
481	0-12	Brown sandy loam	None
	12-26	Yellow sand	None
482	0-5	Brown sandy loam	None
	5-25	Yellow sand	None
483	0-5	Dark brown sandy loam	None
	5-24	Yellow sand	None
484	0-3	Black humus	None
	3-11	Brown sandy loam	None
	11-26	Yellow sand	None
485	0-2	Black topsoil and humus	None
	2-10	Brown sandy loam	None
	10-26	Yellow sand	None
486	0-2	Black topsoil and humus	None
	2-8	Brown sandy loam	None
	8-22	Yellow sand	None
487	0-2	Black topsoil and humus	None
	2-7	Brown sandy soil	None
	7-23	Yellow sand	None
488	0-2	Black topsoil and humus	1 pc. coal
	2-11	Brown sandy soil	None
	11-26	Yellow sand	None
489	0-2	Black topsoil and humus	None
	2-14	Brown sandy soil	None
	14-24	Yellow sand	None
490	0-2	Black topsoil and humus	None
	2-11	Dark gray sandy soil	None
	11-22	Tan/gray sand	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: Brian Morrell Date: Dec. 1982 Section: VII

Test No.	Depth (in.)	Description of Strata	Cultural Remains
491	0-4	Black topsoil and humus	None
	4-11	Dark brown sandy soil	None
	11-18	Gray/tan sand	None
	18-21	Tan sand; water	None
492	0-3	Black topsoil and humus	None
	3-21	Dark brown sandy soil; water at bottom	None
493	0-3	Wet dark black sandy muck; water at 3 in.	None
494	0-3	Wet, dark black muck and water	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Dec. 1982 Section: VIII

Test No.	Depth (in.)	Description of Strata	Cultural Remains
495	0-4	Black topsoil/humus	None
	4-12	Dark gray sand, wet	None
	12-18	Light gray sand and water	None
496	0-5	Black topsoil/humus	None
	5-9	Dark gray sand, wet	None
	9-15	Light gray sand and water	None
497	0-5	Black topsoil/humus (fill); disturbed	None
	5-10	Tan/orange sand (fill); disturbed	None
	10-14	Black topsoil/humus (original ground level)	None
	14-17	Dark gray sand, wet	None
	17-19	Light gray sand and water	None
498	0-10	Black topsoil/humus	None
	10-13	Dark gray sand, wet	None
	13-18	Light gray sand, water	None

TEST EXCAVATION RECORDS
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Recorder: E.J. Lenik Date: Jan. 1983 Section: VII

Test No.	Depth (in.)	Description of Strata	Cultural Remains
621	0-4	Black topsoil/humus	None
	4-14	Light gray sand	None
	14-20	Hard-packed brown clay	None
622	0-14	Black topsoil/humus	None
	14-18	Tan/orange sand and water	None
623	0-4	Black topsoil/humus	None
	4-11	Light gray sand	None
	11-19	Tan/orange sand and water	None
624	0-3	Black topsoil/humus	None
	3-8	Dark gray sand	None
	8-18	Light gray sand and water	None
625	0-4	Black topsoil/humus	None
	4-11	Dark gray sand	None
	11-19	Gray/tan/orange sand and water	None

B. ARTIFACT INVENTORY

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/17/82 Section I Test No. 1 Stratum A Depth 0-12"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-1A	Core of black English flint	1	
	Bottle glass fragment; amber color	1	
	Ironstone or granite china fragment	1	Date range, 1813-1900+
	Refined earthenware fragment; whiteware	1	c. 1820-1900+
	Coal	1	Discarded
	Brick fragment (small)	1	Discarded

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/17/82 Section I Test No. 20 Stratum A Depth 0-10"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-20A	Bottle basal fragment, aquamarine color, molded "16" on base, molded letters "...ER" on side panel	1	Post-1860
	Coal	1	Discarded

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/17/82 Section I Test No. 49 Stratum A Depth 0-7"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-49A	Refined earthenware fragment; whiteware; blue transfer print design	1	Date range, c. 1820-1900+
	Brick fragments	2	Discarded

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/17/82 Section I Test No. 65 Stratum A Depth 0-11"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-65A	Refined earthenware fragment; whiteware	1	Date range, c. 1820-1900+
	Coal	1	Discarded
	Cinder	1	Discarded
	Brick fragment	1	Discarded

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/21/82 Section I Test No. 86 Stratum B Depth 4-19"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-86B	Iron horseshoe fragment	1	

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/21/82 Section I Test No. 89 Stratum B Depth 3-10"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-89B	Pressed glass fragments; clear color	2	
	Coal	2	Discarded
	Cinder	1	Discarded

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/21/82 Section I Test No. 90 Stratum B Depth 4-20"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-90B	Iron horseshoe fragment	1	

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/21/82 Section I Test No. 94 Stratum A Depth 0-3"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-94A	Refined earthenware fragment; whiteware	1	Date range, 1820-1900+

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/21/82 Section I Test No. 150 Stratum A Depth 0-6"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-150A	Chert flake (prehistoric); gray color	1	

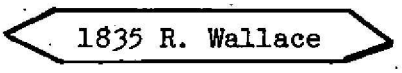
ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/21/82 Section I Test No. 154 Stratum B Depth 5-19"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-154B	Glass fragment; thin, dark green color	1	
	Bottle glass fragment with partially raised letter present; clear color	1	

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/22/82 Section I Test No. 186 Stratum A Depth 0-5"

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-186A	Silver soup spoon, marked on handle: "Pat. 1924" 	1	
	Coal	1	Discarded

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/27/82 Section IV Test No. 393 Stratum C Depth 6-23"

Catalog No.	Description	Quantity	Remarks
ESP SIIP IV-393C	Argillite flake (prehistoric), tan color	1	

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/29/82 Section VI Test No. 523 Stratum A Depth 0-3"

Catalog No.	Description	Quantity	Remarks
ESP SIIP VI-523A	Bottle glass fragment: clear color; mold seam present; raised letters: "JACOB..."	1	

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/29/82 Section VI Test No. 525 Stratum A Depth 0-7"

Catalog No.	Description	Quantity	Remarks
ESP SIIP VI-525A	Window glass fragment; aquamarine color	1	
	Pressed glass; basal fragment; clear color	1	
	Porcelain fragment; white color	1	
	Refined earthenware rim fragment; whiteware; molded floral design	1	Date range, c. 1820-1900+
	Refined earthenware fragment; whiteware	1	Date range, c. 1820-1900+

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/21/82 Section I Test No. _____ Stratum _____ Depth Surface

Catalog No.	Description	Quantity	Remarks
ESP SIIP I-S	Cores of black English flint	3	
	Bottle glass fragment with molded design:		
	"BRC."		
	"12..."		
	"..istered"; green color	1	

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/30/82 Section III Test No. _____ Stratum _____ Depth Surface

Catalog No.	Description	Quantity	Remarks
ESP SIIP III-S	Jasper core; brown color	1	

ARTIFACT INVENTORY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

Date: 12/27/82 Section IV Test No. _____ Stratum ____ Depth Surface

Catalog No.	Description	Quantity	Remarks
ESP SIIP IV-S	"Hump-backed" knife; material, tan chert: Length: 3 1/8" (80mm) Width: 2 3/4" (70mm) Thickness: 3/4" (21mm)	1	Triangular

FIGURE 1

TEST EXCAVATIONS AND STUDY UNITS
STAGE IB CULTURAL RESOURCE SURVEY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

FEBRUARY, 1983 FIGURE 1

HCI, INC.
NEWTON, NJ

0 200 400
FEET

KEY

- TEST EXCAVATION
- TEST TRENCH (1-10)
- SECTION BOUNDARY
- III SECTION NUMBER

STATEN ISLAND EXPRESSWAY
FAHY AVE.
FELTON STREET
PRESERVED WETLANDS
WETLANDS
PARKING AREA
HORSE RING EXERCISE AREA
MANURE DUMP
HORSE EXERCISE RING
BLOOMFIELD AVENUE
EAST SERVICE ROAD OR GLEN AVENUE
GAS PETROLEUM PIPELINE
SWAMPY
BRIDGE AVENUE
WEST SHORE EXPRESSWAY
SWAMP
CONCRETE FOUNDATION
BULLDOZED AREA
SWAMP AND FILLED AREAS
ABANDONED FARMHOUSE
NANSEN PICNIC GROUNDS
BALL FIELD
UNITED PARCEL SERVICE

TEST EXCAVATIONS AND STUDY UNITS
STAGE 1B CULTURAL RESOURCE SURVEY
EAST SIDE PROJECT, STATEN ISLAND INDUSTRIAL PARK

FEBRUARY, 1983 FIGURE 1

HCI, INC.
NEWTON, NJ

0 200 400
FEET

KEY

- TEST EXCAVATION
- TEST TRENCH (1-10)
- SECTION BOUNDARY
- III SECTION NUMBER

FIGURE 1

STATEN ISLAND EXPRESSWAY
FAHY AVE.
FELTON STREET
PRESERVED WETLANDS
WETLANDS
PARKING AREA
HORSE RING + EXERCISE AREA
MANURE DUMP
HORSE EXERCISE RING
BLOOMFIELD AVENUE
EAST SERVICE ROAD OR GLEN AVENUE
GAS PETROLEUM PIPELINE
SWAMPY
WEST SHORE EXPRESSWAY
(BRIDGE AVENUE)
SWAMP
CONCRETE FOUNDATION
BULLDOZED AREA
SWAMP AND FILLED AREAS
ABANDONED FARMHOUSE
NANSEN PICNIC GROUNDS
BALL FIELD
UNITED PARCEL SERVICE