

186-02 JAMAICA AVENUE

BOROUGH OF QUEENS, NEW YORK

Remedial Investigation Report

E-Designation: E-175

OER Project Number: 14EHAZ274Q

Prepared for:

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Daren Murphy, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for 186-02 Jamaica Avenue, Queens, New York (OER Project #: 14EHAZ274Q). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

<u>Daren Murphy</u>	<u>6/11/14</u>	<u>Daren Murphy</u>
Qualified Environmental Professional	Date	Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 186-02 Jamaica Avenue in the Hollis section of Borough of Queens, New York and is identified as Block 10352 and Lot 108 on the New York City Tax Map. Figure 1 shows the Site location. The Site (147.00 FT X 319.00 FT; Irregular) is 47,000-square feet and is bounded by Jamaica Avenue to the north, Long Island Railroad (LIRR) to the south, ABC Supply Co Inc. to the east, and Rodless Properties to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is unoccupied and contains a vacant one-story masonry building (32.00 FT X 240.00 FT) (approximately 7,680 square feet) and asphalt paved surfaces.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of the complete removal of the existing one-story masonry building, foundations, and asphalt paved parking lot for the redevelopment of the site for a new self-storage facility. Layout of the proposed site redevelopment is presented in Figure 3. The current zoning designation is M1-2 Manufacturing District. The proposed use (self-storage) is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

The property was previously utilized as a lumber yard from at least 1926 through about 1991 followed by occupancy of an auto sales & towing facility from approximately 1992 through 2013. During its use as a lumber yard, the site included several buildings (used for office, saw mill, garage, warehouse, and lumber sheds), lumber piles, coal pocket, and railroad spur. According to our review of historical Sanborn fire insurance maps, the existing building appears to have been built prior to 1926 with significant modifications over the years. 186 JAMAICA AVE LLC purchased the site from Ed DiBenedetto Inc in 2014; who purchased the property from Jamaica Lumber Co Inc in 1985.

The AOCs identified for this Site include:

1. The listing of the Site as an E DESIGNATION Site.
2. Historical uses of the Site as a lumber yard (and associated historical buildings).
3. Buried gasoline tank (depicted on historical Sanborn fire insurance maps) located at northern portion of Site.
4. Existing subsurface drainage structures located within asphalt paved surfaces.
5. An apparent oil/water separator located at northern portion of the Site.
6. The presence of historic fill material throughout the Site.

The Phase I ESA Report (SMES, October 2013) is presented in Appendix A.

Summary of the Work Performed under the Remedial Investigation

1. Conducted a site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Performed subsurface geophysical investigation, using ground penetrating radar (GPR) equipment, throughout all accessible portions of the Site;
3. Performed exploratory test pit at a GPR anomaly location identified at the Site to confirm the presence/absence of USTs;
4. Investigated two (2) subsurface drainage structures located at the Site to confirm that they discharge into underlying soil formations and collected soil/sludge grab samples from structures for chemical analysis to evaluate soil quality;
5. Completed survey of Site to locate footprint of former building(s);
6. Installed sixteen (16) soil borings across the entire project Site and collected twenty-two (22) soil samples for chemical analysis from the soil borings to evaluate soil quality;
7. Supplemental soil probes GP-1 through GP-11 were installed at designated locations at the Site using a truck mounted Geoprobe. Probe GP-1, GP-2, and GP-3 were installed in the area of the gasoline UST; GP-4 and GP-5 were installed near the

oil/water separator; GP-6 and GP-7 were installed near the subsurface drainage structures; GP-8 and GP-9 were completed at random locations to address historic fill; and GP-10 and GP-11 were completed within the southern portion of the existing building at a GPR anomaly location.

8. Installed three (3) groundwater monitoring wells throughout the Site to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;
9. Installed six (6) soil vapor probes throughout the Site and collected six (6) soil vapor samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is approximately 50.0 feet above sea level.
2. Depth to groundwater ranges from approximately 18.0 – 19.0 feet bgs at the Site.
3. Groundwater flow is generally from northeast to southwest (south/southwesterly flow component) beneath the Site.
4. The stratigraphy of the site, from the surface down, consists of 2.0 to 8.0 feet of asphalt and soil fill, underlain, generally by a naturally bedded moderately dense coarse to fine sand formation with traces of silt and gravel extending to the deepest depths drilled.
5. Results of soil samples collected during investigations were compared to 6NYCRR Part 375-6.8 (a and b) Unrestricted Use (Track 1) and Restricted Commercial Use Soil Cleanup Objectives (SCO). Soil samples showed VOCs including acetone (max 115 ug/kg), benzene (max 319 ug/kg), toluene (1320 ug/kg), m,p-xylenes (max 3250 ug/kg), and 1,2,4-trimethylbenzene (max 13100 ug/kg) were detected in the samples at concentrations that exceeded Track 1 Unrestricted Use SCO. None of VOCs exceeded Restricted – Commercial Use SCO. Several SVOCs including pentachlorophenol (max 1140 ug/kg), benzo(a)anthracene (max 2840 ug/kg), chrysene (max 3130), benzo(b)fluoranthene (max 5490 ug/kg), benzo(k)fluoranthene (max 1360 ug/kg), benzo(a)pyrene (max 3370 ug/kg), indeno(1,2,3-cd)pyrene (max 3400 ug/kg), and dibenzo(a,h)anthracene (max 962 ug/kg) were detected at concentrations that exceeded Track 1 Unrestricted Use SCO. And of these, benzo(a)pyrene and

dibenzo(a,h)anthracene also exceeded Restricted Commercial (Track 2) Use SCO in one shallow soil sample. One pesticides, dieldrin (max 5.91 ug/kg) in one (1) shallow (0-2 foot) sample exceeded Track 1 Unrestricted Use SCO. Several metals including arsenic (max 47.4 mg/kg), barium (max 476 mg/kg), cadmium (max 2.85 mg/kg), chromium (max 34.9 mg/kg), copper (max 921 mg/kg), lead (max 2260 mg/kg), nickel (42.0 mg/kg), and zinc (max 986 mg/kg) were detected exceeded Track 1 Unrestricted Use SCO. Of these, barium, copper and lead also exceeded Track 2 Restricted Commercial Use SCO. No PCBs were detected in the samples.

6. Soil/sludge samples collected during the RI showed VOCs including acetone (max 1320 ug/kg), cis-1,2-dichloroethylene (max 666 ug/kg), and toluene (max 3780 ug/kg) were detected in the samples at concentrations that exceeded Soil Cleanup Objectives (SCO). SVOCs including benzo(a)anthracene (max 4130 ug/kg), chrysene (max 4530 ug/kg), benzo(b)fluoranthene (max 5610 ug/kg), and benzo(b)fluoranthene (max 2190 ug/kg) were detected above Restricted Commercial Use SCOs. Metals including arsenic (max 21.5 mg/kg), cadmium (max 15.2 mg/kg), chromium (max 135 mg/kg), lead (max 3250 mg/kg), and nickel (max 154 mg/kg) exceeded Unrestricted Use as well as Restricted Commercial Use SCOs.
7. Groundwater samples results were compared to NYSDEC 6NYCRR Part 703.5 Groundwater Quality Standards (GQS). Groundwater detected several metals but only iron, manganese, and sodium were detected above their respective GQS. There were no detections of VOCs, SVOCs, PCBs, or pesticides in groundwater samples.
8. Soil vapor results collected during the RI were compared to the compounds listed in Table 3.1 Air Guideline Values Derived by the NYSDOH located in the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion dated October 2006. Soil vapor samples showed low concentrations of petroleum related and chlorinated VOCs. The maximum concentrations of BTEX compounds was at 45 $\mu\text{g}/\text{m}^3$. Highest reported concentrations were for acetone at 44 $\mu\text{g}/\text{m}^3$. Chlorinated VOCs, tetrachloroethylene was detected at a maximum concentration of 2.7 $\mu\text{g}/\text{m}^3$. 1,1,1-trichloroethane, carbon tetrachloride, and trichloroethene were not detected. Concentrations of chlorinated compounds are well below the monitoring levels established by NYSDOH matrix.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

186 JAMAICA AVE LLC has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate the 1.07-acre site located at 186-02 Jamaica Avenue in the Hollis section of Borough of Queens, New York. Commercial use is proposed for the property. The RI work was performed between November 2013 and March 2014. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 186-02 Jamaica Avenue in the Hollis section of Borough of Queens, New York and is identified as Block 10352 and Lot 108 on the New York City Tax Map. Figure 1 shows the Site location. The Site (147.00 FT X 319.00 FT; Irregular) is 47,000-square feet and is bounded by Jamaica Avenue to the north, Long Island Railroad (LIRR) to the south, ABC Supply Co Inc. to the east, and Rodless Properties to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is unoccupied and contains a vacant one-story masonry building (32.00 FT X 240.00 FT) (approximately 7,680 square feet) and asphalt paved surfaces.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of the complete removal of the existing one-story masonry building, foundations, and asphalt paved parking lot for the redevelopment of the site for a new self-storage facility. Layout of the proposed site redevelopment is presented in Figure 3. The current zoning designation is M1-2 Manufacturing District. The proposed use (self-storage) is consistent with existing zoning for the property.

The proposed site redevelopment will consist of a new slab on grade 6-story building for self-storage use. The first floor will accommodate the sales office area, 5-bay interior loading area, elevators and egress stairs, and storage units. The upper five stories will accommodate all storage units. The building footprint area is 15,850 square feet for a total of 95,100 square feet. The new building will be situated on the northeast side of the property with new entrance to the asphalt paved parking lot area on the northwest side. Landscaping areas will be provided at the front of the property on both sides of the site entrance. Street trees will also be provided along Jamaica Avenue. Layout of the proposed site development is presented in Figure 3.

The bottom of the new footings for the new building will be approximately 4.0-6.0 feet below grade. The estimated volume of excavation to install the new concrete footings and foundation wall will be approximately 400 cubic yards. The groundwater table is approximately 18.0 – 19.0 feet below ground surface (bgs), therefore, excavation is not anticipated to be below the groundwater table.

1.3 Description of Surrounding Property

The Site is located within an urban area characterized mostly by residential, retail, commercial, and manufacturing properties. The current zoning designation for the Site is M1-2 Manufacturing District. According to OERs *SPEED*, there are no sensitive receptors such as schools, hospitals, and day care facilities within a 500-foot radius of the Site. Figure 4 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The property was previously utilized as a lumber yard from at least 1926 through about 1991 followed by occupancy of an auto sales & towing facility from approximately 1992 through 2013. During its use as a lumber yard, the site included several buildings (used for office, saw mill, garage, warehouse, and lumber sheds), lumber piles, coal pocket, and railroad spur. According to our review of historical Sanborn fire insurance maps, the existing building appears to have been built prior to 1926 with significant modifications over the years. 186 JAMAICA AVE LLC purchased the site from Ed DiBenedetto Inc in 2014, who purchased the property from Jamaica Lumber Co Inc in 1985.

2.2 Previous Investigations

Previous investigations associated with the Site included the following:

- Geotechnical Report, dated October 18, 2013, prepared by Soil Mechanics Drilling Corp. (the Geotechnical Report is presented in Appendix B).

2.3 Site Inspection

A site inspection was performed at the Site by Daren Murphy of Soil Mechanics Environmental Services (SMES) on September 25, 2013. The site reconnaissance included a visual inspection of all accessible portions of the subject property and adjacent land uses. The Site consisted of a vacant one-story masonry building and asphalt paved surfaces.

2.4 Areas of Concern

The AOCs identified for this Site include:

1. The listing of the Site as an E DESIGNATION Site.
2. Historical uses of the Site as a lumber yard (and associated historical buildings).
3. Buried gasoline tank (depicted on historical Sanborn fire insurance maps) located at northern portion of Site.

4. Existing subsurface drainage structures located within asphalt paved surfaces.
5. An apparent oil/water separator located at northern portion of the Site.
6. The presence of historic fill material throughout the Site.

The Phase I ESA Report (SMES, October 2013) is presented in Appendix A.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Daren Murphy.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

CS SNL JAMAICA AVE LLC performed the following scope of work:

1. Conducted a site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Performed subsurface geophysical investigation, using ground penetrating radar (GPR) equipment, throughout all accessible portions of the Site;
3. Performed exploratory test pit at a GPR anomaly location identified at the Site to confirm the presence/absence of USTs;
4. Investigated two (2) subsurface drainage structures located at the Site to confirm that they discharge into underlying soil formations and collected soil/sludge grab samples from structures for chemical analysis to evaluate soil quality;
5. Completed survey of Site to locate footprint of former building(s);
6. Installed sixteen (16) soil borings across the entire project Site and collected twenty-two (22) soil samples for chemical analysis from the soil borings to evaluate soil quality; The twenty-two (22) soil samples were collected from a variety of depths ranging from 0.0-2.0 feet bgs to 16.0-18.0 feet bgs.
7. Installed three (3) groundwater monitoring wells throughout the Site to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;
8. Installed six (6) soil vapor probes around Site perimeter and collected six (6) soil vapor samples for chemical analysis.

4.1 Geophysical Investigation

Prior to any ground disturbance, a subsurface geophysical investigation, i.e., ground penetrating radar (GPR), was completed throughout all accessible portions of the Site in an attempt to identify/locate any suspect USTs.

The GPR survey was conducted throughout accessible portions of the Site using a Noggin Smart Cart system with 250-MHz antenna. Bi-directional (XY) grids, each with a line spacing of approximately 5.0 feet, were collected. The grid data was processed and visualized as a series of 2.0 foot thick depth slices using EKKO-Mapper software.

Results of the GPR survey revealed the following (the results of GPR survey are presented in Figure 5):

- The gasoline UST, as depicted on historical Sanborn fire insurance maps, was confirmed to be present at the northern portion of the Site.
- Two (2) other anomalies were identified at the Site; one (1) outside the northeastern portion of the building and one (1) within the southern portion of the building.

Please be advised that GPR technology is non-intrusive. Accordingly, the results discussed herein may have been affected by the presence of brackish water, concrete encasement (if any), and/or geological formations.

4.2 Exploratory Test Pit

Using a hydraulic combination hoe, an exploratory test pit was completed outside the northeastern portion of the existing building for the purposes of investigating the GPR anomaly. The test pit was approximately 2.0 – 3.0 feet wide by approximately 8.5 feet deep upon its completion. Results of the test pit revealed no visual evidence of a UST. The anomalous condition was found to consist of a section of I-beam, remnants of a concrete column, and portions of a basement (associated with former building). Due to access constraints, an exploratory test pit was not completed at the anomaly identified within the southern portion of the existing building. In lieu of an exploratory test pit, soil probes GP-10 and GP-11 were completed in proximity to the GPR anomaly identified within the southern portion of the building to evaluate subsurface soil quality.

4.3 Investigation of Drainage Structures

Investigative activities were conducted on one (1) existing drainage structure and one (1) suspect drainage structure located within asphalt paved parking areas. Both of these structures were confirmed to be storm water drainage structures which discharge into underlying soil

formations. It should be noted that intake/outfall pipes were identified within both structures which suggests that additional overflow pools are present.

Soil/sludge grab samples were collected from each of the structures for the purposes of assessing the environmental quality of same. Utilizing a hand auger, samples identified as S-1 and S-2 were collected from sediment material contained at the bottom of each structure. Samples were collected at depths of 9.0-10.0 and 3.0-4.0 feet bgs at sample locations S-1 and S-2, respectively. The location of subsurface drainage structures is presented in Figure 6.

4.4 Borings and Monitoring Wells

Drilling and Soil Logging

Soil borings SB-1 through SB-5 and monitoring wells MW-1 through MW-3 were installed at designated locations at the Site using a truck mounted drill rig. Boring SB-1 was installed in the area of a suspected removed fuel oil UST; SB-2 was installed in the area of the proposed new building; SB-3 was installed in the area of a former independent electric plant; SB-4 was installed near the gasoline UST; and SB-5 was installed in the area of a former railroad spur. Soil samples were collected on a continuous 2.0 foot interval basis from the ground surface to the soil/groundwater interface. All recovered soil samples collected from the soil borings were continuously screened for the presence of VOCs with a photo-ionization detector (PID) and screened by visual and olfactory means for signs of contamination.

A series of two (2) soil samples were selected for chemical analysis from each soil boring. The first sample was collected from surface soils at 0.0 – 2.0 feet below existing grade. The second sample was collected from deeper intervals that were chosen based on the PID results and/or visual/olfactory observations.

Head space organic vapor analysis sheets were prepared during drilling activities and are attached in Appendix C. Boring logs were prepared by a geologist and are attached in Appendix D. A map showing the location of soil borings and monitor wells are shown in Figures 7 & 8.

Supplemental soil probes GP-1 through GP-11 were installed at designated locations at the Site using a truck mounted Geoprobe. Probe GP-1, GP-2, and GP-3 were installed in the area of the gasoline UST; GP-4 and GP-5 were installed near the oil/water separator; GP-6 and GP-7 were installed near the subsurface drainage structures; GP-8 and GP-9 were completed at random locations to address historic fill; and GP-10 and GP-11 were completed within the southern portion of the existing building at a GPR anomaly location. Soil samples were collected on a continuous 2.0 foot interval basis from the ground surface to the final depth of the probe. The soil probes were advanced to different depths depending on the nature of the investigation. All recovered soil samples collected from the soil probes were continuously screened for the presence of VOCs with a PID and screened by visual and olfactory means for signs of contamination.

One (1) soil sample was selected for chemical analysis from each of the supplemental soil probes. The sample that was chosen from the probe was based upon the nature of the investigation and/or based on the PID results and/or visual/olfactory observations.

Head space organic vapor analysis sheets were prepared during probing activities and are attached in Appendix C. A map showing the location of soil probes is shown in Figure 8.

Groundwater Monitoring Well Construction

Two-inch diameter PVC monitoring wells were installed at borings SB-1, SB-2, and SB-3 and identified as MW-1, MW-2, and MW-3, respectively. Since groundwater was encountered at approximately 18.0 – 19.0 feet below grade, the monitoring wells were installed to an approximate depth of 30.0 feet below grade. Observation well logs were prepared by a geologist and are attached in Appendix E. Monitor well locations are shown in Figure 7 & 8.

Survey

The soil borings and groundwater monitoring wells were located to the nearest 0.10 foot with respect to permanent site features.

Water Level Measurement

One round of static water levels was obtained from the monitoring wells prior to groundwater purging and sampling to determine groundwater elevation and groundwater flow direction. A Solinst oil/water interface probe was utilized for the groundwater water level measurements. Water level data is included in Table A.

4.5 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil/sludge, soil, groundwater, and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Qualified OSHA HAZWOPER certified SMES personnel completed all sampling activities in accordance with appropriate sampling and decontamination protocols recognized by the NYSDEC. The soil/sludge, soil, and groundwater samples were properly identified, packed in coolers with ice, logged, and hand delivered to Long Island Analytical Laboratories Inc (Holbrook, N.Y.) (NYSDOH ELAP # 11693) under full chain of custody procedures. The air samples were properly identified, logged, and delivered to Centek Laboratories LLC (Syracuse, N.Y.) (NYSDOH ELAP # 11830) under full chain of custody procedures.

Soil/Sludge Sampling

Two (2) soil/sludge grab samples were collected for chemical analysis during this RI. Data on soil/sludge sample collection for chemical analyses, including dates of collection and sample depths, is reported in Table B. Figure 6 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Soil Sampling

Twenty-two (22) soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables B & C. Figures 7 & 8 shows the location of samples collected during the investigations. Laboratories and analytical methods are shown below.

Groundwater Sampling

Three (3) groundwater samples were collected for chemical analysis during this RI. Groundwater samples were collected by installing two-inch diameter PVC monitoring wells, approximately 10.0 feet below the soil/groundwater interface. Monitoring wells MW-1, MW-2, and MW-3 were developed, purged, and sampled in general conformance with NYSDEC sampling guidelines and protocols (September 2002). Groundwater sample collection data is reported in Table B. Figure 7 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Six (6) soil vapor probes were installed and six (6) soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 9. Soil vapor sample collection data is reported in Table D. The soil vapor sampling was conducted in accordance with the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

One (1) sub-slab soil vapor implant (SV-1) was installed within the interior of the existing one-story building by drilling a ½ inch hole through the concrete slab with a handheld drill and then inserting ¼ inch polyethylene tubing to a depth of 4-6 inches below the concrete slab. The tubing was then sealed at the surface with hydrated granular bentonite. Further, an indoor (ambient) air sample was collected from this area of the existing building during the sampling event. The sub-slab soil vapor sample and the indoor (ambient) air samples were 8-hour duration samples.

Five (5) soil vapor implants (SV-2 through SV-6) were installed at exterior locations using direct push technology sampling equipment. The soil vapor implants were constructed of a 6 inch length of double woven stainless steel wire. The implants were installed to a depth of 5.0 feet below grade. Each implant was attached to a ¼ inch polyethylene tubing which was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the vapor implants to a height of approximately 1.0 foot above the bottom of the implant. The remainder of the boring was sealed with a bentonite slurry to the surfaces. Further, an outdoor (ambient) air sample was collected during the sampling event. The soil vapor samples were 2-hour duration samples and the outdoor (ambient) air sample was an 8-hour duration sample.

Soil vapor sampling activities were conducted following the installation of the soil vapor probes. Three (3) implant volumes were purged prior to collecting the samples at a purge rate of 0.2 liters per minute. The soil vapor samples were collected using 6-liter Summa canisters each fitted with a laboratory calibrated critical orifice flow regulation device sized to allow the collection of soil gas samples so as not to exceed 0.2 liters per minute.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Daren Murphy
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI are NYS ELAP certified and were Long Island Analytical Laboratories Inc (ELAP Certification No. 11693) and Centek Laboratories LLC (ELAP Certification No. 11830):
Chemical Analytical Methods	Soil analytical methods (samples S-1, S-2; soil borings SB-1, SB-2, SB-3, SB-4, SB-5, GP-4, GP-5, GP-6, GP-7, GP-8, GP-9, GP-10, GP-11):

	<ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Soil analytical methods (soil borings GP-1, GP-2, GP-3):</p> <ul style="list-style-type: none"> • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); <p>Groundwater analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Soil vapor analytical methods:</p> <ul style="list-style-type: none"> • VOCs by TO-15 VOC parameters.
--	--

Results of Chemical Analyses

Laboratory data for soil/sludge, soil, groundwater and soil vapor are summarized in Tables 1-24, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix F & G.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

Review of geologic logs associated with the Site revealed that the areas drilled are blanketed by from 2.0 feet to 8.0 feet of asphalt and soil fill, underlain, generally, by a naturally bedded moderately coarse to fine sand formation with traces of silt and gravel extending to the deepest depths drilled.

Hydrogeology

A table of water level data for all monitor wells is included in Table A. Depth to groundwater ranges from approximately 18.0 – 19.0 feet bgs. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in Figure 10. Groundwater flow is from generally from northeast to southwest (south/southwest flow component) beneath the Site.

5.2 Soil/Sludge Chemistry

Soil/sludge samples collected during the RI showed VOCs including acetone (max 1320 ug/kg), cis-1,2-dichloroethylene (max 666 ug/kg), and toluene (max 3780 ug/kg) were detected in the samples at concentrations that exceeded Soil Cleanup Objectives (SCO). SVOCs including benzo(a)anthracene (max 4130 ug/kg), chrysene (max 4530 ug/kg), benzo(b)fluoranthene (max 5610 ug/kg), and benzo(k)fluoranthene (max 2190 ug/kg) were detected above Restricted Commercial Use SCOs. Metals including arsenic (max 21.5 mg/kg), cadmium (max 15.2 mg/kg), chromium (max 135 mg/kg), lead (max 3250 mg/kg), and nickel (max 154 mg/kg) exceeded Unrestricted Use as well as Restricted Commercial Use SCOs.

Data collected during the RI is sufficient to delineate the environmental quality of sediment material contained within subsurface drainage structures at the Site. A summary table of data for chemical analyses performed on soil/sludge samples is included in Tables 1 – 5. Figure 11 shows the location and posts the values for contaminants that exceed USEPA Region 2 UIC Soil Cleanup Objectives (SCO) (Dated: January 12, 2011).

5.3 Soil Chemistry

Results of soil samples collected during investigations were compared to 6NYCRR Part 375-6.8 (a and b) Unrestricted Use (Track 1) and Restricted Commercial Use Soil Cleanup Objectives (SCO). Soil samples showed VOCs including acetone (max 115 ug/kg), benzene (max 319 ug/kg), toluene (1320 ug/kg), m,p-xylenes (max 3250 ug/kg), and 1,2,4-trimethylbenzene (max 13100 ug/kg) were detected in the samples at concentrations that exceeded Track 1 Unrestricted Use SCO. None of VOCs exceeded Restricted – Commercial Use SCO. Several SVOCs including pentachlorophenol (max 1140 ug/kg), benzo(a)anthracene (max 2840 ug/kg), chrysene (max 3130), benzo(b)fluoranthene (max 5490 ug/kg), benzo(k)fluoranthene (max 1360 ug/kg), benzo(a)pyrene (max 3370 ug/kg), indeno(1,2,3-cd)pyrene (max 3400 ug/kg), and dibenzo(a,h)anthracene (max 962 ug/kg) were detected at concentrations that exceeded Track 1 Unrestricted Use SCO. And of these, benzo(a)pyrene and dibenzo(a,h)anthracene also exceeded Restricted Commercial (Track 2) Use SCO in one shallow soil sample. One pesticides, dieldrin (max 5.91 ug/kg) in one (1) shallow (0-2 foot) sample exceeded Track 1 Unrestricted Use SCO. Several metals including arsenic (max 47.4 mg/kg), barium (max 476 mg/kg), cadmium (max 2.85 mg/kg), chromium (max 34.9 mg/kg), copper (max 921 mg/kg), lead (max 2260 mg/kg), nickel (42.0 mg/kg), and zinc (max 986 mg/kg) were detected exceeded Track 1 Unrestricted Use SCO. Of these, barium, copper and lead also exceeded Track 2 Restricted Commercial Use SCO. No PCBs were detected in the samples.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 6 – 10 & 17 – 21. Figure 12 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 4 Commercial Use SCO.

5.4 Groundwater Chemistry

Groundwater samples collected during the RI showed metals including iron (max 6.21 mg/L), manganese (max 1.22 mg/L), and sodium (max 95.0 mg/L) were detected in the samples at concentrations that exceeded NYSDEC 6NYCRR Part 703.5 Groundwater Quality Standards (GQS). Notably, there were exceedances of antimony, arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, nickel, selenium, silver, sodium, thallium, and zinc in sample

MW-2 within the non-filtered sample. There were no detections of VOCs, SVOCs, PCBs, or pesticides in the samples.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Tables 11 – 16. Figure 13 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.5 Soil Vapor Chemistry

Soil vapor results collected during the RI were compared to the compounds listed in Table 3.1 Air Guideline Values Derived by the NYSDOH located in the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion dated October 2006. Soil vapor samples showed low concentrations of petroleum related and chlorinated VOCs. The maximum concentrations of BTEX compounds was at $45 \mu\text{g}/\text{m}^3$. Highest reported concentrations were for acetone at $44 \mu\text{g}/\text{m}^3$. Chlorinated VOCs, tetrachloroethylene was detected at a maximum concentration of $2.7 \mu\text{g}/\text{m}^3$. 1,1,1-trichloroethane, carbon tetrachloride, and trichloroethene were not detected. Concentrations of chlorinated compounds are well below the monitoring levels established by NYSDOH matrix.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Tables 22 – 24. Figure 14 shows the location and posts the values for soil vapor samples with detected concentrations.

5.6 Prior Activity

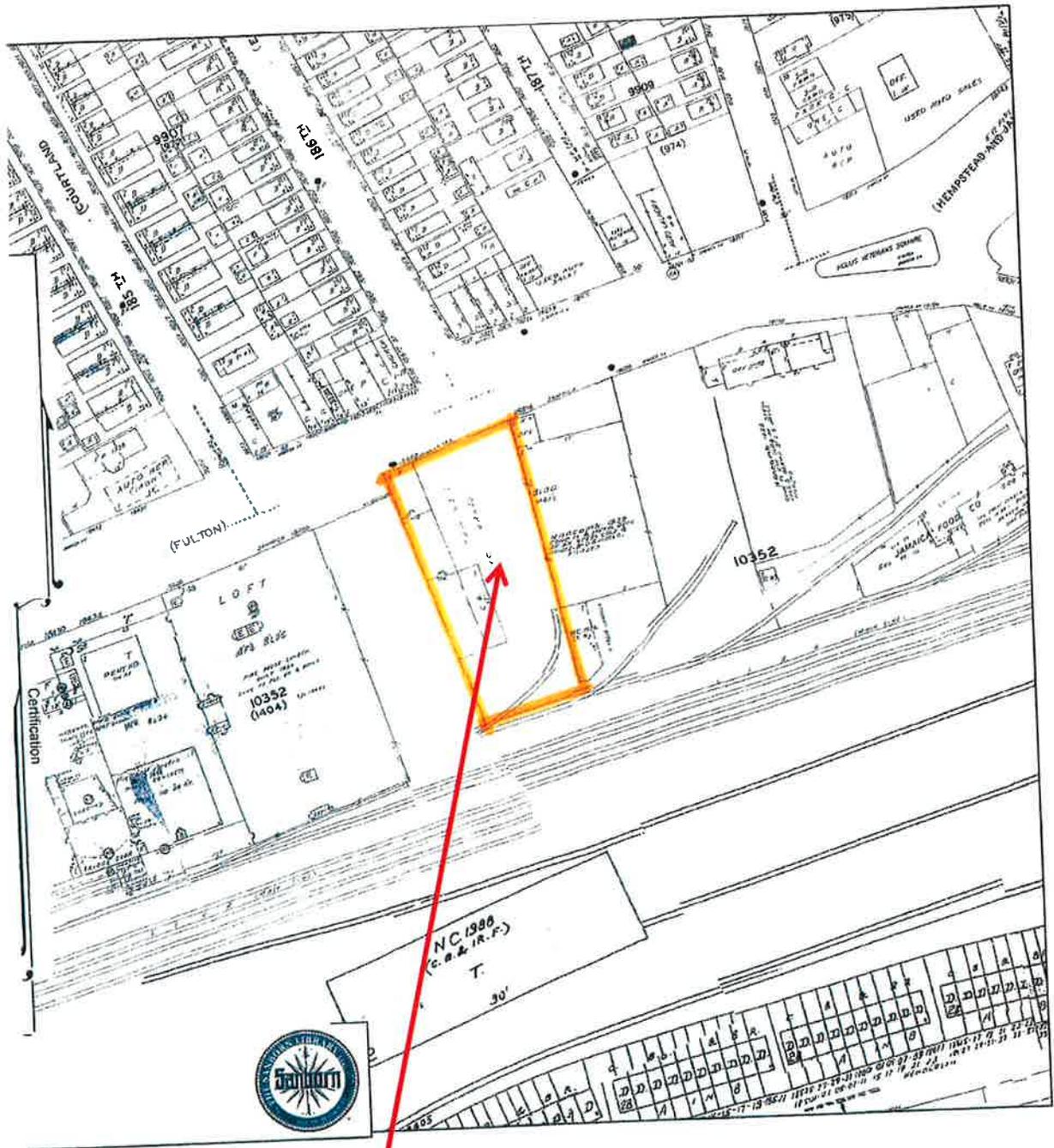
Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this Site.

5.7 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

FIGURES

FIGURE 1
SITE LOCATION MAP



SUBJECT PROPERTY



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Environmental Services

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(516) 221-7500 FAX (516) 679-1900
www.soilmechanicscorp.com

FIGURE 1
SITE LOCATION MAP
QUEENS, NEW YORK

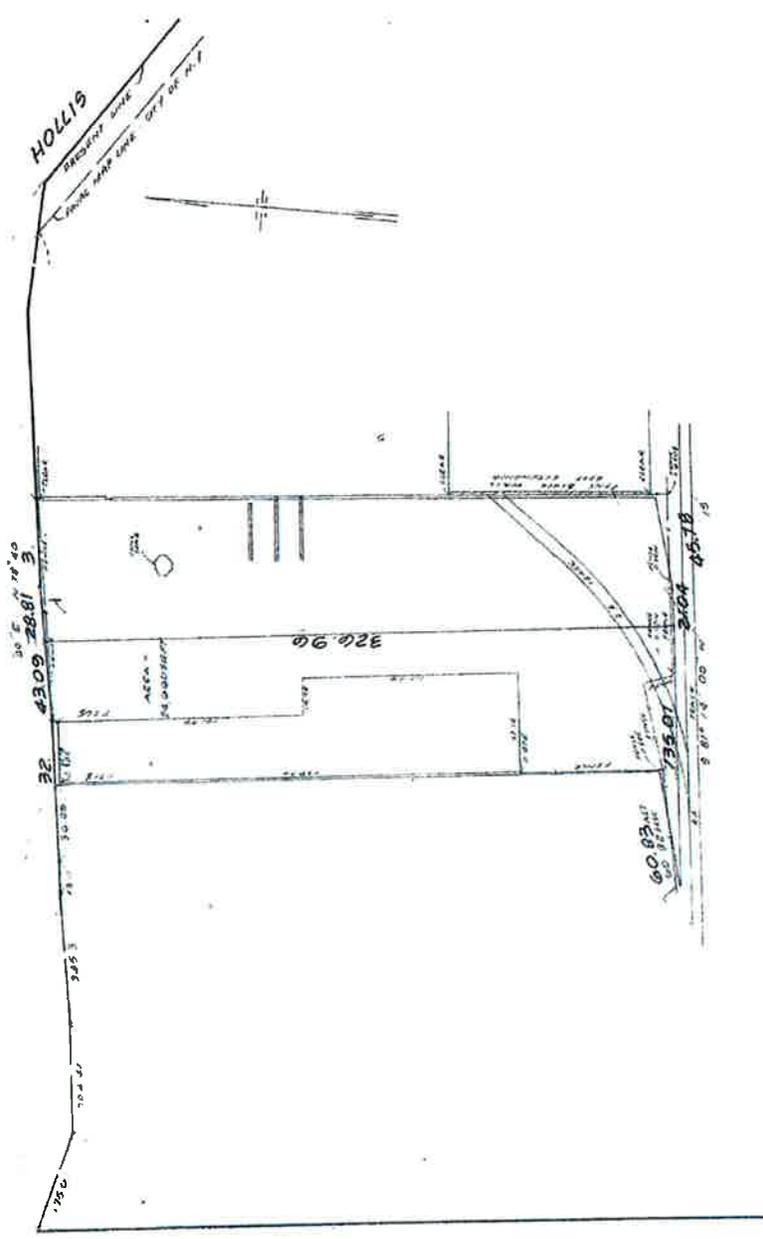
DATE: 5/1/2014

SCALE: N.T.S.

JOB NO.: 13-671



FIGURE 2
SITE BOUNDARY MAP



STATE OF NEW YORK
 COUNTY OF QUEENS
 J. ROBERTO BOLETTI
 REGISTERED PROFESSIONAL ENGINEER
 No. 11111
 EXPIRES 12/31/15
 NEW YORK, N.Y. 11108

352' 0.03'



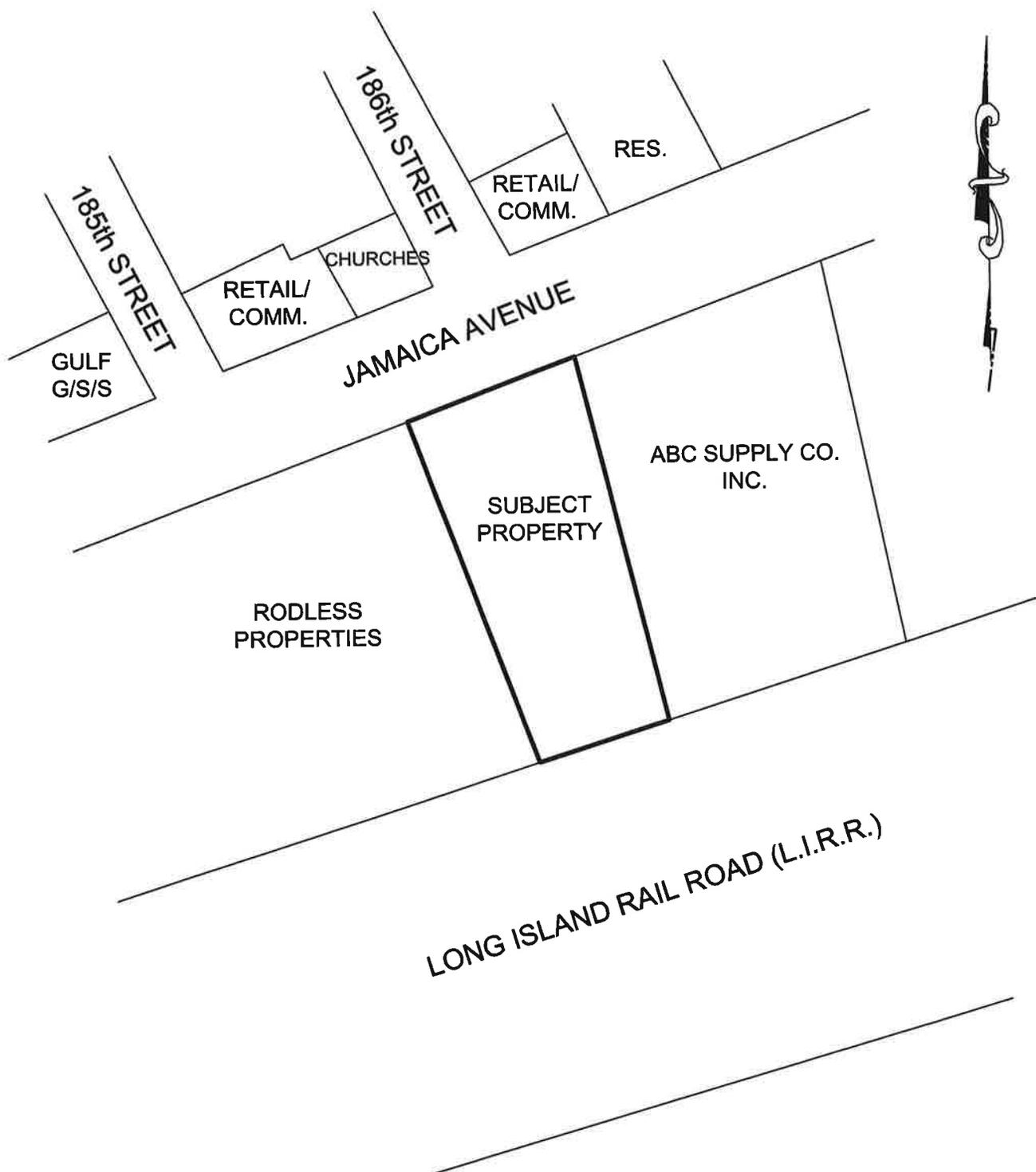
SOIL MECHANICS
Environmental Services

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 (516) 221-7500 FAX (516) 679-1900
www.soilmechanicscorp.com

FIGURE 2 SITE BOUNDARY MAP QUEENS, NEW YORK	
DATE:	5/1/2014
SCALE:	N.T.S.
JOB NO.:	13-671

FIGURE 3
LAYOUT OF PROPOSED SITE
REDEVELOPMENT

FIGURE 4
SURROUNDING LAND USE MAP



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FIGURE #4

SURROUNDING LAND USE MAP

QUEENS, NEW YORK

SCALE:	N.T.S.	DATE:	MAY 7, 2014	JOB NO.	13S671
		REVISED:			JMR

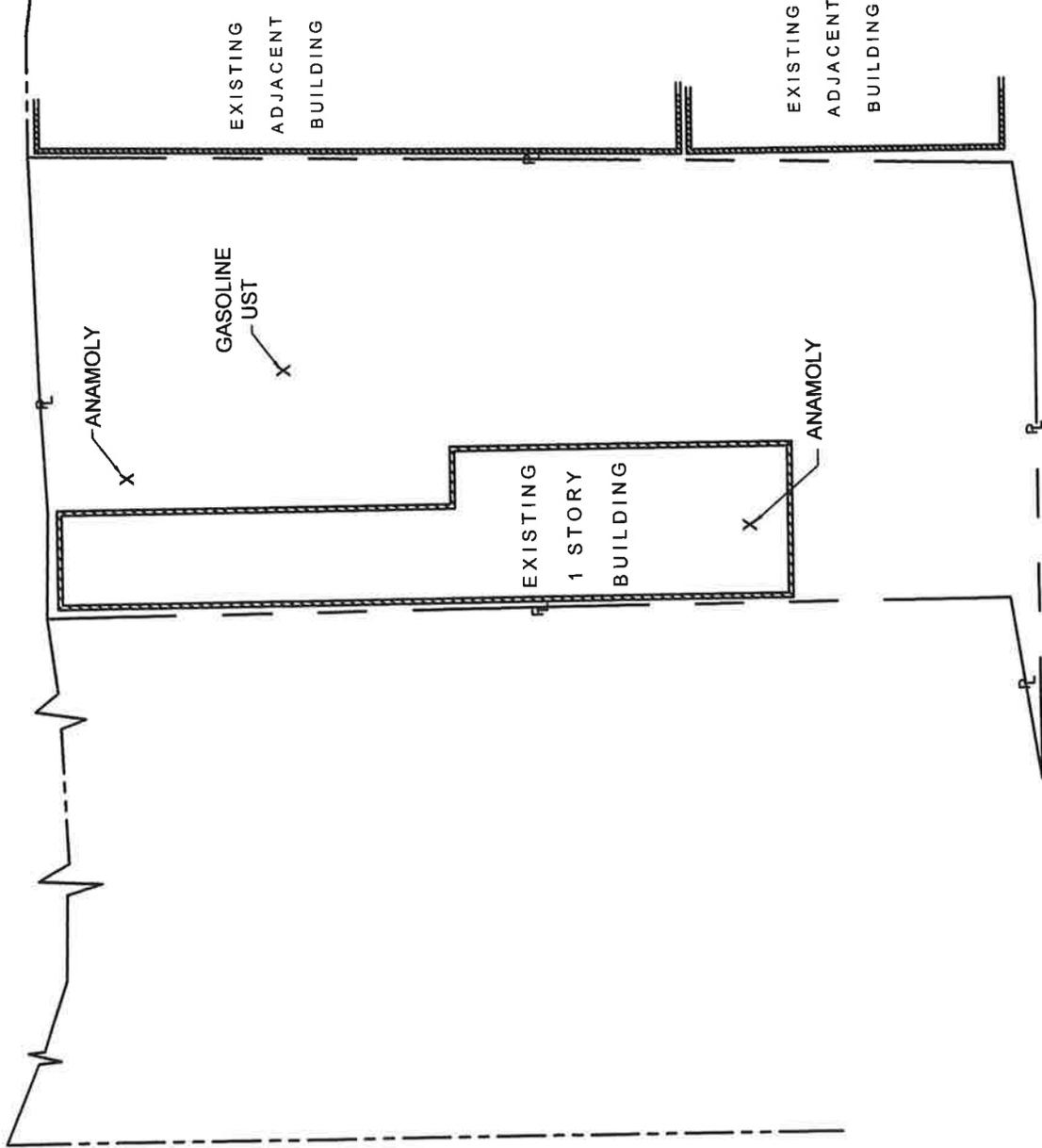
FIGURE 5
GPR SURVEY RESULTS MAP

BM. $\xi \times \xi$
NOTED AS B.M. AT
EL. 43.2'

183rd STREET

JAMAICA AVENUE

HOLLIS AVENUE



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FIGURE 5
GPR SURVEY RESULTS MAP
QUEENS, NEW YORK

DATE: MAY 7, 2014	JOB NO. 13S671
REVISED	N.A.R.

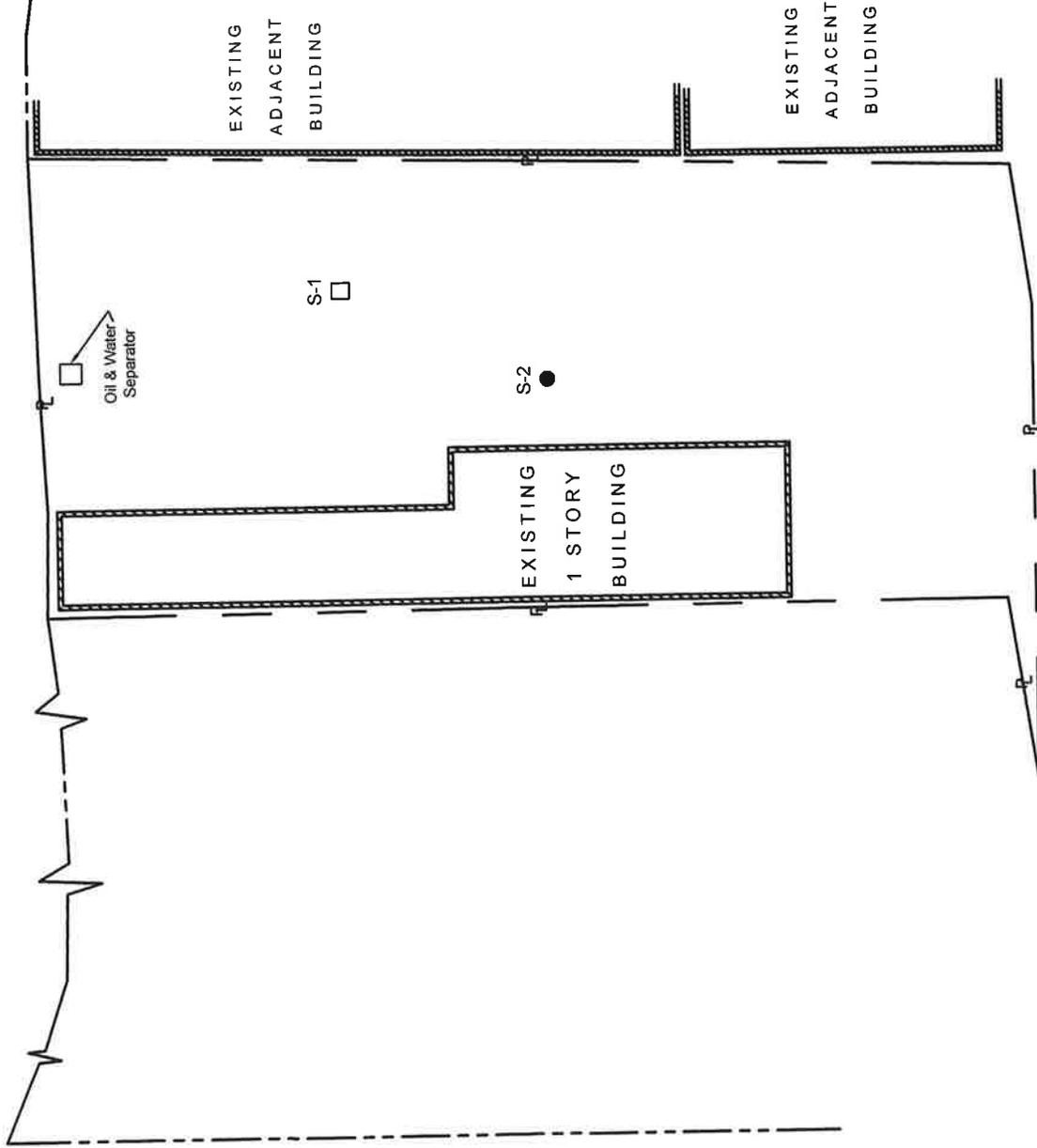
FIGURE 6
LOCATION OF SUBSURFACE
DRAINAGE STRUCTURES MAP

B.M. $\zeta \times \zeta$
NOTED AS B.M. AT
EL. 43.2'

JAMAICA AVENUE

HOLLIS AVENUE

18 3rd. STREET



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FIGURE 6
LOCATION OF SUBSURFACE DRAINAGE STRUCTURE MAP
QUEENS, NEW YORK

DATE: MAY 7, 2014	JOB NO. 13S671
REVISED:	N.A.R.

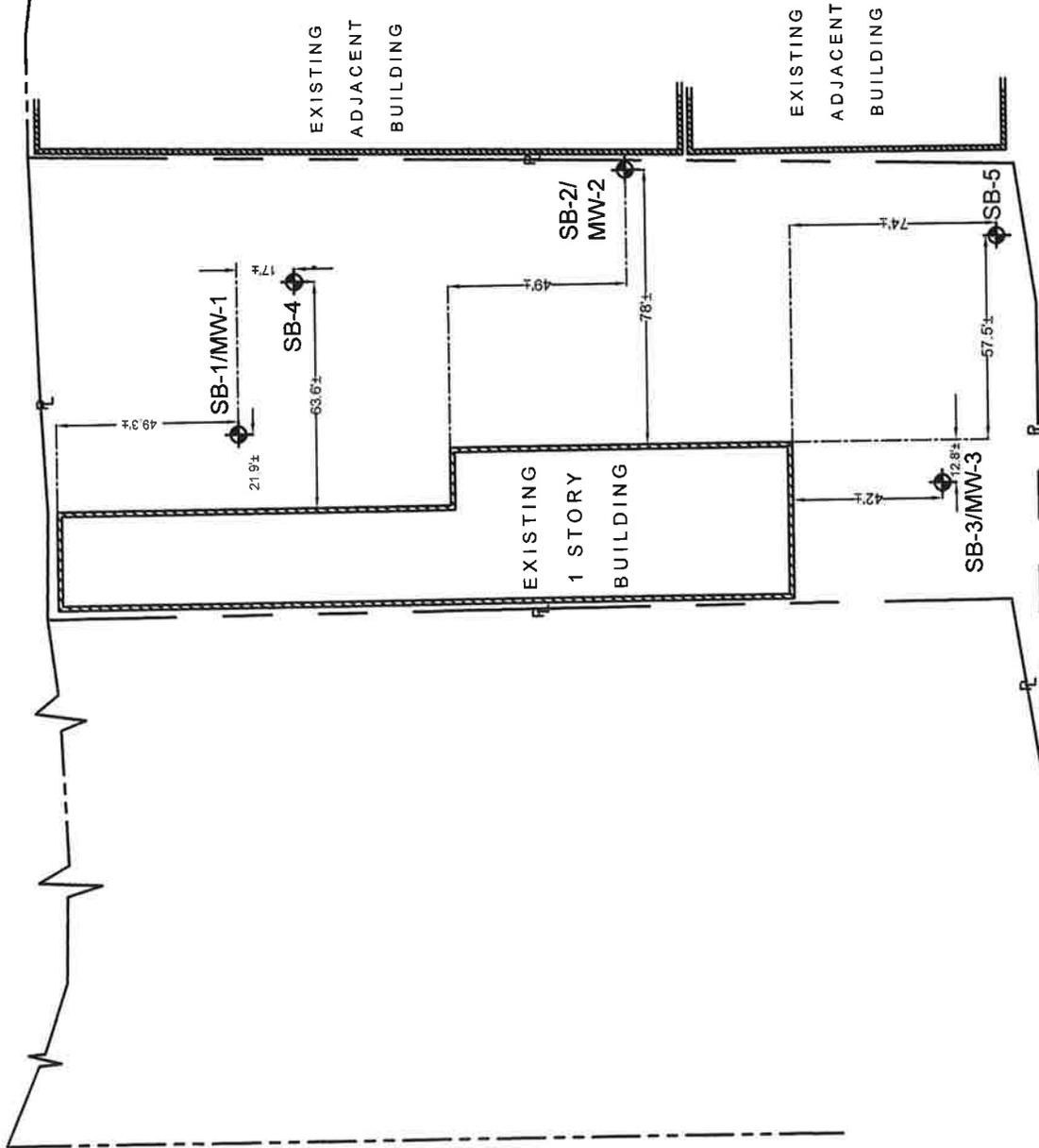
FIGURE 7
SOIL BORING/MONITORING WELL
LOCATION PLAN

B.M. $\overline{\text{C}} \times \overline{\text{C}}$
 NOTED AS B.M. AT
 EL. 43.2'

183rd STREET

JAMAICA AVENUE

HOLLIS AVENUE



SOIL MECHANICS ENVIRONMENTAL SERVICES
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SOIL BORING / MONITORING

FIGURE 7

WELL LOCATION PLAN

QUEENS, NEW YORK

SCALE: 1" = 50'±

DATE: MAY 8, 2014

JOB NO: 13S671

REVISED: MAR

FIGURE 8
SAMPLE LOCATION PLAN

BM. $\xi \times \xi$
 NOTED AS B.M. AT
 EL. 43.2'

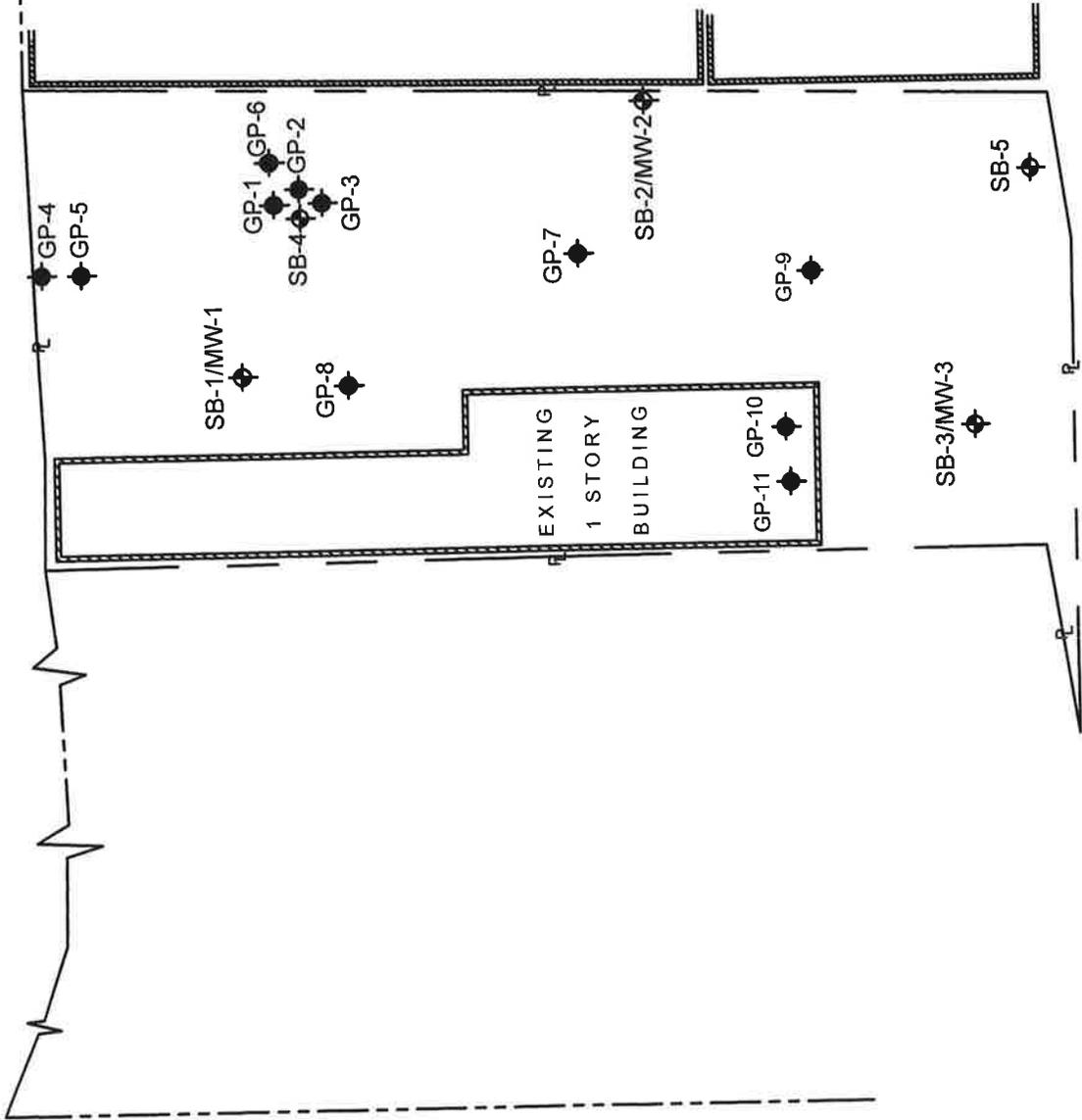
183rd STREET

JAMAICA AVENUE

HOLLIS AVENUE

EXISTING
 ADJACENT
 BUILDING

EXISTING
 ADJACENT
 BUILDING



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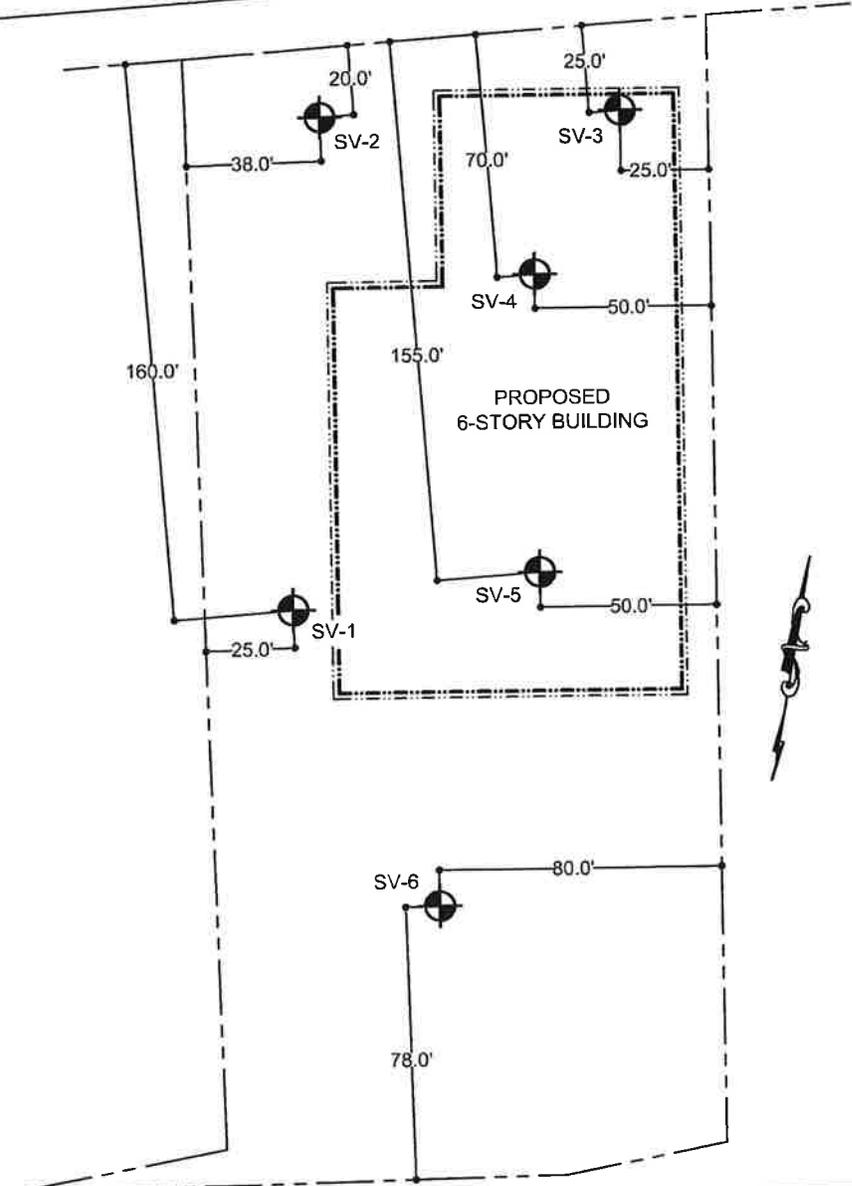
SAMPLE LOCATION PLAN
 FIGURE 8
 QUEENS, NEW YORK

SCALE	1" = 50'	DATE	MAY 8, 2014	JOB NO.	13S671
		REVISED:			

FIGURE 9
SOIL VAPOR SAMPLE LOCATION
PLAN

JAMAICA AVENUE

186th ST.



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FIGURE #9

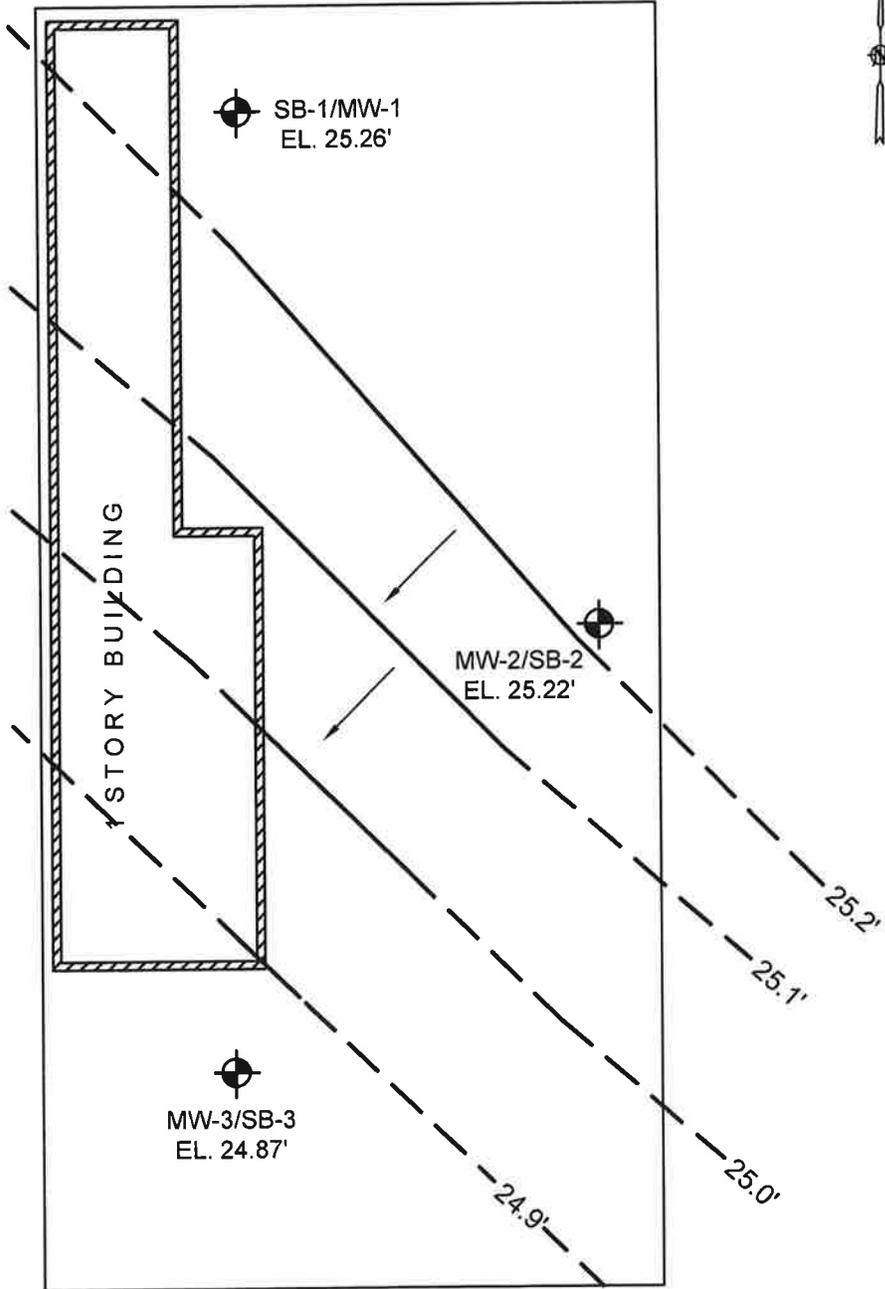
SOIL VAPOR SAMPLE LOCATION PLAN

QUEENS, NEW YORK

SCALE:	1"=50'-0"	DATE:	MAY 8, 2014	JOB NO.	13S671
		REVISED:			JMR

FIGURE 10
GROUNDWATER FLOW MAP

JAMAICA AVENUE



SOIL MECHANICS ENVIRONMENTAL SERVICES

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FIGURE # 10

GROUNDWATER FLOW MAP

QUEENS, NEW YORK

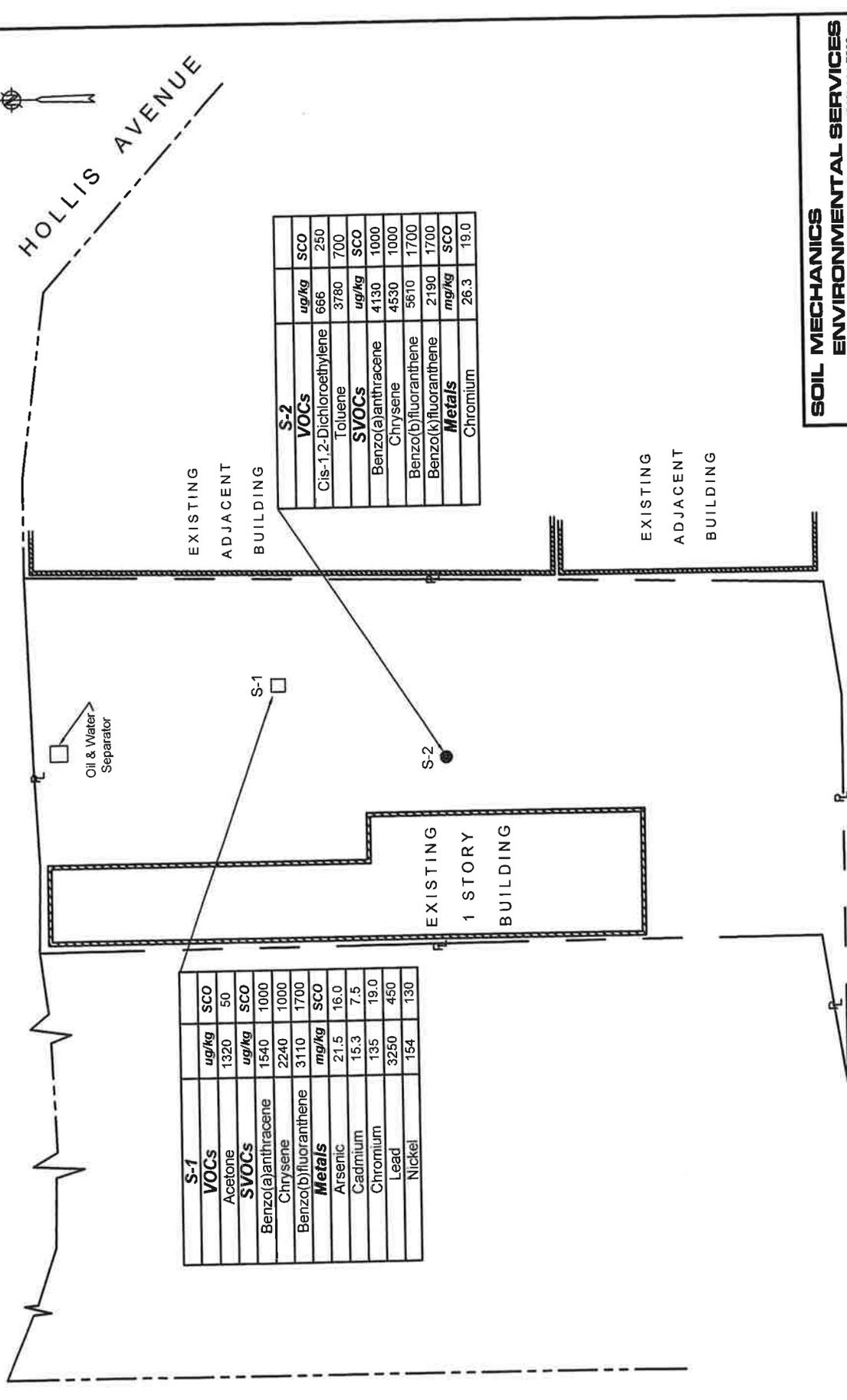
SCALE:	SCHEMATIC	DATE:	MAY 7, 2014	JOB NO.	13S671GWT
		REVISED:	N.A.R.		

FIGURE 11
MAP OF SOIL/SLUDGE CHEMISTRY

B.M. \perp x \perp
 NOTED AS B.M. AT
 EL. 43.2'

JAMAICA AVENUE

HOLLIS AVENUE



S-1		
VOCs	ug/kg	SCO
Acetone	1320	50
SVOCs	ug/kg	SCO
Benzo(a)anthracene	1540	1000
Chrysene	2240	1000
Benzo(b)fluoranthene	3110	1700
Metals	mg/kg	SCO
Arsenic	21.5	16.0
Cadmium	15.3	7.5
Chromium	135	19.0
Lead	3250	450
Nickel	154	130

S-2		
VOCs	ug/kg	SCO
Cis-1,2-Dichloroethylene	666	250
Toluene	3780	700
SVOCs	ug/kg	SCO
Benzo(a)anthracene	4130	1000
Chrysene	4530	1000
Benzo(b)fluoranthene	5610	1700
Benzo(k)fluoranthene	2190	1700
Metals	mg/kg	SCO
Chromium	26.3	19.0

EXISTING
 ADJACENT
 BUILDING

EXISTING
 ADJACENT
 BUILDING

EXISTING
 1 STORY
 BUILDING

Oil & Water
 Separator

183rd STREET

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FIGURE 11
MAP OF SOIL/SLUDGE CHEMISTRY
QUEENS, NEW YORK

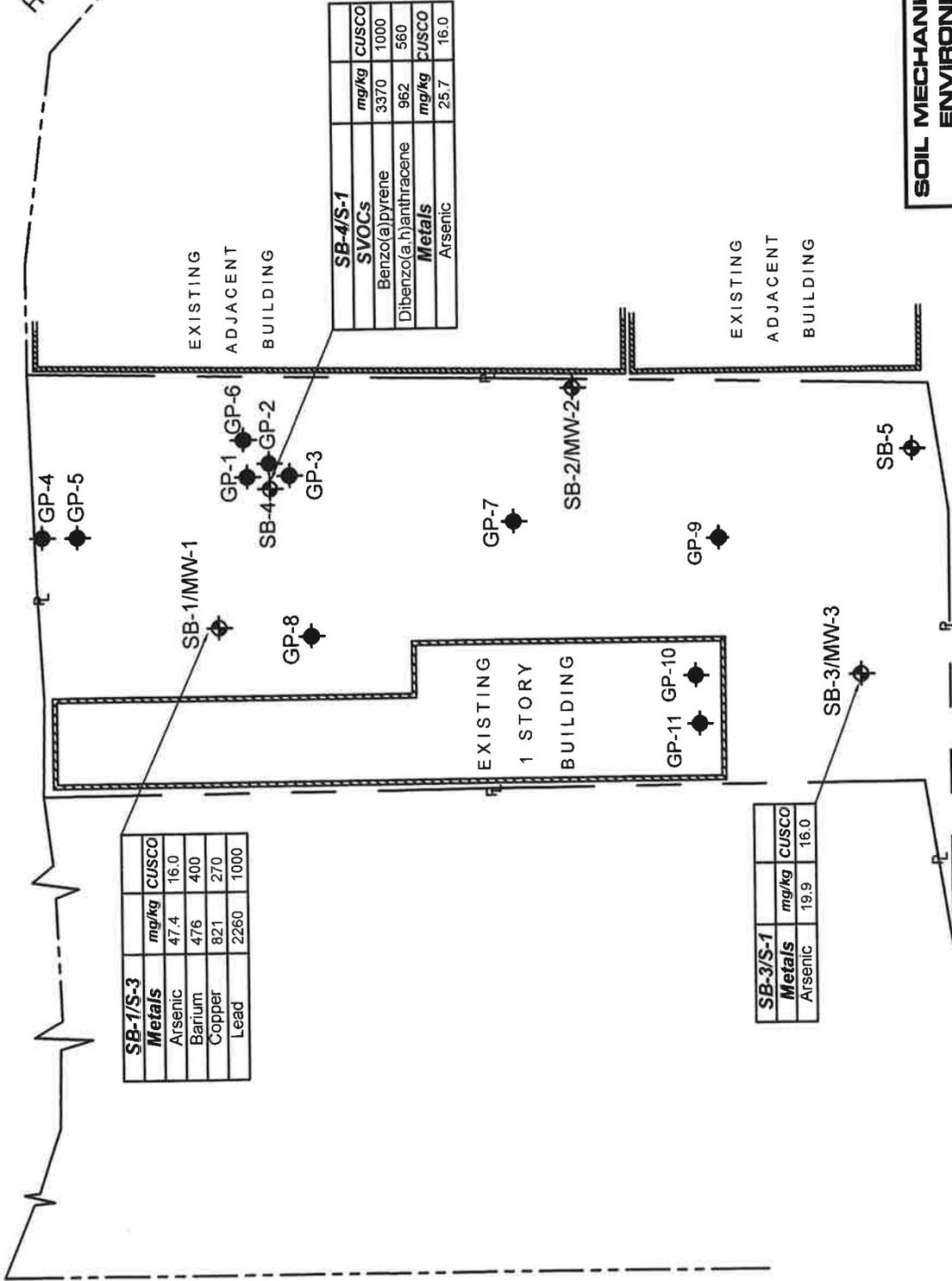
DATE: MAY 7, 2014 JOB NO: 13S671
 REVISED: N.A.R.

FIGURE 12
MAP OF SOIL CHEMISTRY

BM
 183rd STREET
 1" x 1"
 NOTED AS B.M. AT
 EL. 43.2'

JAMAICA AVENUE

HOLLIS AVENUE



SB-1/S-3		
Metals	mg/kg	CUSCO
Arsenic	47.4	16.0
Barium	476	400
Copper	821	270
Lead	2260	1000

SB-3/S-1		
Metals	mg/kg	CUSCO
Arsenic	19.9	16.0

SB-4/S-1		
SVOCS	mg/kg	CUSCO
Benzo(a)pyrene	3370	1000
Dibenzo(a,h)anthracene	962	560
Metals	mg/kg	CUSCO
Arsenic	25.7	16.0

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FIGURE 12
 MAP OF SOIL CHEMISTRY
 QUEENS, NEW YORK

SCALE: 1" = 50'± DATE: MAY 7, 2014 JOB NO: 13S671
 REVISED: N.A.R.

FIGURE 13
MAP OF GROUNDWATER
CHEMISTRY

B.M. \perp x \perp
 NOTED AS B.M. AT
 EL. 43.2'

JAMAICA AVENUE

HOLLIS AVENUE

183rd STREET

MW-1

Dissolved Metals	mg/L	QGS
Iron	5.52	0.3
Manganese	0.33	0.3
Sodium	69.4	20.0

MW-1

EXISTING
 1 STORY
 BUILDING

EXISTING
 ADJACENT
 BUILDING

MW-2

Dissolved Metals	mg/L	QGS
Iron	3.14	0.3
Manganese	0.66	0.3
Sodium	62.3	20.0

MW-2

EXISTING
 ADJACENT
 BUILDING

MW-3

Dissolved Metals	mg/L	QGS
Iron	6.21	0.3
Manganese	1.22	0.3
Sodium	95.0	20.0

MW-3

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FIGURE 13
 MAP OF GROUNDWATER CHEMISTRY
 QUEENS, NEW YORK

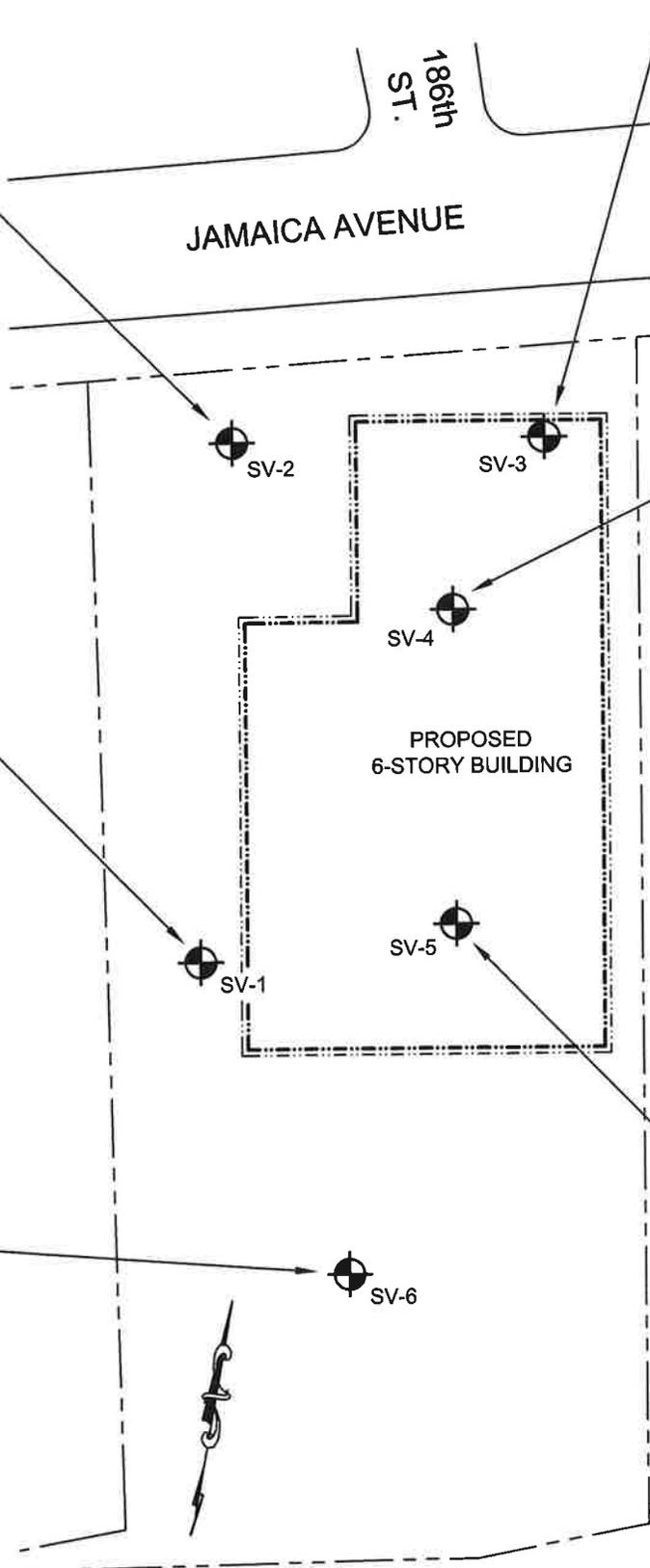
DATE: MAY 7, 2014 JOB NO: 13S671
 REVISED: N/A

FIGURE 14
MAP OF SOIL VAPOR CHEMISTRY

SV-2	
VOCs	ug/m3
1,2,4-Trimethylbenzene	1.2
1,4-Dichlorobenzene	0.86
2,2,4-trimethylpentane	0.62
Acetone	27
Benzene	1.0
Carbone Disulfide	0.32
Chloroform	0.65
Ethylbenzene	1.2
Freon 11	1.4
Freon 12	2.2
Heptane	0.92
Isopropyl alcohol	3.6
m&p xylene	3.7
Methyl ethyl ketone	2.0
Methyl isobutyl ketone	1.0
Methylene Chloride	1.4
o-xylene	1.3
Tetrachloroethylene	1.8
Toluene	3.6

SV-1	
VOCs	ug/m3
1,2,4-Trimethylbenzene	1.8
1,3,5-Trimethylbenzene	0.70
2,2,4-trimethylpentane	2.7
4-ethyltoluene	0.90
Acetone	61
Benzene	2.9
Carbone Disulfide	2.2
Cyclohexane	2.7
Ethylbenzene	26
Freon 11	1.3
Freon 12	2.6
Heptane	20
Hexane	11
Isopropyl alcohol	11
m&p xylene	55
Methyl ethyl ketone	12
Methylene chloride	0.60
Tetrachloroethylene	8.3
Tetrahydrofuran	11
Toluene	21

SV-6	
VOCs	ug/m3
1,1,1-Trichloroethane	1.1
1,2,4-Trimethylbenzene	1.1
1,4-Dichlorobenzene	0.92
2,2,4-trimethylpentane	1.0
Acetone	42
Benzene	1.7
Carbone Disulfide	42
Chloroform	0.60
Cyclohexane	0.77
Ethylbenzene	0.93
Freon 11	3.3
Freon 12	2.6
Heptane	1.9
Hexane	4.4
m&p xylene	2.8
Methyl isobutyl ketone	1.4
Methylene Chloride	2.3
o-xylene	0.88
Tetrachloroethylene	2.7
Toluene	4.4



SV-3	
VOCs	ug/m3
1,2,4-Trimethylbenzene	1.0
2,2,4-trimethylpentane	1.2
Acetone	17
Benzene	1.5
Carbone Disulfide	0.41
Chloromethane	0.78
Ethylbenzene	0.79
Freon 11	1.4
Freon 12	2.7
Heptane	0.87
Hexane	1.3
Isopropyl alcohol	3.7
m&p xylene	2.4
Methylene Chloride	1.2
o-xylene	0.75
Tetrachloroethylene	2.1
Toluene	5.1
Trichloroethene	1.1

SV-4	
VOCs	ug/m3
1,2,4-Trimethylbenzene	2.0
1,3,5-Trimethylbenzene	0.65
1,4-Dichlorobenzene	1.0
2,2,4-trimethylpentane	13
4-ethyltoluene	0.60
Acetone	44
Benzene	2.7
Carbone Disulfide	1.6
Chloroform	0.65
Cyclohexane	3.6
Ethyl acetate	8.1
Ethylbenzene	2.3
Freon 11	1.8
Freon 12	2.5
Heptane	5.6
Hexane	9.7
Isopropyl alcohol	7.5
m&p xylene	6.5
Methyl ethyl ketone	5.1
Methyl isobutyl ketone	1.4
Methylene Chloride	3.5
o-xylene	1.9
Tetrachloroethylene	1.9
Toluene	19
Trichloroethene	0.55

SV-5	
VOCs	ug/m3
1,2,4-Trimethylbenzene	0.95
1,4-Dichlorobenzene	0.67
2,2,4-trimethylpentane	4.3
Acetone	37
Benzene	2.6
Carbone Disulfide	2.4
Cyclohexane	2.0
Ethylbenzene	0.93
Freon 11	1.5
Freon 12	2.6
Heptane	3.0
Hexane	5.8
Isopropyl alcohol	12
m&p xylene	2.6
Methyl isobutyl ketone	1.0
Methylene Chloride	1.8
o-xylene	0.79
Toluene	5.0

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FIGURE #14

MAP OF SOIL VAPOR CHEMISTRY

QUEENS, NEW YORK

SCALE: 1"=50'-0"	DATE: MAY 8, 2014	JOB NO. 13S671
	REVISED:	JMR

TABLES

TABLE A
GROUNDWATER LEVEL DATA

TABLE A
GROUNDWATER LEVEL DATA

MW ID No.	Date	Water Elevation
MW-1	12/9/13	25.26'
MW-2	12/9/13	25.22'
MW-3	12/9/13	24.87'

TABLE B
SAMPLE SUMMARY SHEET
LIMITED PHASE II SUBSURFACE
INVESTIGATION

TABLE B
Sample Summary Sheet
Limited Scope Phase II Subsurface Investigation

Sample ID	Matrix	Sample Date	Sample Depth	Sample Location	Laboratory Parameters
S-1	Soil/Sludge	11/7/13	9-10'	Subsurface Drainage Structure	VOCs (8260), SVOCs BNA (8270), PCBs, Pesticides, & TAL Metals
S-2	Soil/Sludge	11/7/13	3-4'	Subsurface Drainage Structure	Same as above
SB-1/S-3	Soil	11/13/13	4-6'	Area of Suspect Removed Fuel Oil UST	Same as Above
SB-1/S-5	Soil	11/13/13	8-10'	Area of Suspect Removed Fuel Oil UST	Same as Above
SB-2/S-1	Soil	11/13/13	0-2'	Area of Proposed New Building	Same as Above
SB-2/S-3	Soil	11/13/13	4-6'	Area of Proposed New Building	Same as Above
SB-3/S-1	Soil	11/13/13	0-2'	Area of Former Independent Electric Plant	Same as Above
SB-3/S-9	Soil	11/13/13	16-18'	Area of Former Independent Electric Plant	Same as Above
SB-4/S-1	Soil	11/13/13	0-2'	Near Gasoline UST and Area of Proposed New Building	Same as Above
SB-4/S-2	Soil	11/13/13	2-4'	Near Gasoline UST and Area of Proposed New Building	Same as Above
SB-4/S-3	Soil	11/13/13	4-6'	Near Gasoline UST and Area of Proposed New Building	Same as Above
SB-5/S-1	Soil	11/13/13	0-2'	Area of Former Railroad Spur	Same as Above
SB-5/S-9	Soil	11/13/13	16-18'	Area of Former Railroad Spur	Same as Above
MW-1	Aqueous	11/14/13	~18-19'	NW Portion of Site	VOCs (8260), SVOCs BNA (8270), PCBs, Pesticides, & TAL Metals (Total/Dissolved)
MW-2	Aqueous	11/14/13	~18-19'	Eastern Portion of Site	Same as Above
MW-3	Aqueous	11/14/13	~18-19'	SW Portion of Site	Same as Above

TABLE C
SAMPLE SUMMARY SHEET
SUPPLEMENTAL INVESTIGATION

TABLE C
Sample Summary Sheet
Supplemental Investigation

Sample ID	Matrix	Sample Date	Sample Depth	Sample Location	Laboratory Parameters
GP-1/S-5	Soil	12/13/13	8-10'	Near Gasoline UST and Area of Proposed New Building	VOCs (8260) & SVOCs (8270)
GP-2/S-1	Soil	12/13/13	0-2'	Near Gasoline UST and Area of Proposed New Building	Same as above
GP-3/S-2	Soil	12/13/13	2-4'	Near Gasoline UST and Area of Proposed New Building	Same as Above
GP-4/S-6	Soil	12/16/13	10-12'	Near Oil/Water Separator	VOCs (8260), SVOCs BNA (8270), PCBs, Pesticides, & TAL Metals
GP-5/S-6	Soil	12/16/13	10-12'	Near Oil/Water Separator	Same as Above
GP-6/S-4	Soil	12/16/13	6-8'	Near Subsurface Drainage Structure	Same as Above
GP-7/S-6	Soil	12/13/13	10-12'	Near Subsurface Drainage Structure	Same as Above
GP-8/S-1	Soil	12/13/13	0-2'	Random – Historic Fill	Same as Above
GP-9/S-1	Soil	12/13/13	0-2'	Random – Historic Fill	Same as Above
GP-10/S-6	Soil	12/16/13	10-12'	Near GPR Anomaly	Same as Above
GP-11/S-6	Soil	12/16/13	10-12'	Near GPR Anomaly	Same as Above

TABLE D
SAMPLE SUMMARY SHEET
SOIL VAPOR SAMPLING

TABLE D
Sample Summary Sheet
Soil Vapor Sampling

Sample ID	Matrix	Sample Date	Sample Depth	Sample Location	Laboratory Parameters
SV-1	Air	3/25/14	4-6"	Sub-Slab (Interior of Existing Building) 8-Hour Duration	VOCs (EPA Method TO-15)
IA-1	Air	3/25/14	-	Indoor (Ambient) Air Sample 8-Hour Duration	Same as above
SV-2	Air	3/25/14	5'	Soil Vapor Probe (Exterior Location) 2-Hour Duration	VOCs (EPA Method TO-15) & Helium
SV-3	Air	3/25/14	5'	Soil Vapor Probe (Exterior Location) 2-Hour Duration	Same as Above
SV-4	Air	3/25/14	5'	Soil Vapor Probe (Exterior Location) 2-Hour Duration	Same as Above
SV-5	Air	3/25/14	5'	Soil Vapor Probe (Exterior Location) 2-Hour Duration	Same as Above
SV-6	Air	3/25/14	5'	Soil Vapor Probe (Exterior Location) 2-Hour Duration	Same as Above
OA-1	Air	3/25/14	-	Outdoor (Ambient) Air Sample 8-Hour Duration	VOCs (EPA Method TO-15)

TABLES 1 – 24
SUMMARY OF RESULTS OF
CHEMICAL ANALYSIS

TABLE 1
Volatle Analysis
Soil/Sludge Analytical Results

Parameter	S-1	S-2	SCO (1)
Dichlorodifluoromethane	<459	<321	-
Chlorodifluoromethane	<459	<321	-
Chloromethane	<459	<321	-
Vinyl chloride	<4590	<3210	-
Bromomethane	<459	<321	-
Chloroethane	<459	<321	-
Trichloromethane	<459	<321	-
Acetone	1320	<802	50
1,1-Dichloroethylene	<459	<321	-
Tert-Butyl alcohol	<459	<321	-
1,1,2-Trichloro-1,2,2-trifluoroethane	<459	<321	-
Acrylonitrile	<459	<321	-
Methylene Chloride	<459	<321	-
Carbon disulfide	<459	<321	-
Methyl-tert-butyl Ether	<459	<321	-
Trans-1,2-Dichloroethylene	<459	<321	-
1,1-Dichloroethane	<459	<321	-
Methyl Ethyl Ketone (2-Butanone)	<1150	<802	250
Cis-1,2-Dichloroethylene	<459	666	-
2,2-Dichloropropane	<459	<321	-
Bromochloromethane	<459	<321	-
Chloroform	<459	<321	-
1,1,1-Trichloroethane	<459	<321	-
1,2-Dichloroethane	<459	<321	-
1,1-Dichloropropylene	<459	<321	-
Carbon Tetrachloride	<459	<321	-
Benzene	<459	<321	-
Trichloroethylene	<459	<321	-
1,2-Dichloropropane	<459	<321	-
Dibromomethane	<459	<321	-
Bromodichloromethane	<459	<321	-
Methyl Isobutyl Ketone	<1150	<802	-
Cis-1,3-Dichloropropylene	<459	<321	-
Toluene	<459	3780	700
Trans-1,3-Dichloropropylene	<459	<321	-
Toluene	<459	<321	-
Trans-1,3-Dichloropropylene	<459	<321	-
1,1,2-Trichloroethane	<459	<321	-
Methyl Butyl Ketone (2-Hexanone)	<1150	<802	-

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards.
- (1) USEPA Region 2 UIC Soil Cleanup Objectives (SCO)

**TABLE 1 (Cont.)
Volatile Analysis
Soil/Sludge Analytical Results**

Parameter	S-1	S-2	SCO (1)
1,3-Dichloropropane	<459	<321	-
Dibromochloromethane	<1150	<802	-
Tetrachloroethylene	<459	<321	-
1,2-Dibromoethane	<459	<321	-
Chlorobenzene	<459	<321	-
1,1,1,2-Tetrachloroethane	<459	<642	-
M,p-Xylenes	<917	<321	-
Styrene	<459	<321	-
o-Xylene	<459	<321	-
Bromoform	<459	<321	-
1,1,1,2-Tetrachloroethane	<459	<321	-
Isopropylbenzene (Cumene)	<459	<321	-
1,2,3-Trichloropropane	<459	<321	-
Bromobenzene	<459	<321	-
n-Propylbenzene	<459	<321	-
2-Chlorotoluene	<459	<321	-
4-Ethyltoluene	<459	<321	-
4-Chlorotoluene	<459	<321	-
1,3,5-Trimethylbenzene	<459	<321	-
Tert-Butylbenzene	693	<802	3,600
1,2,4-Trimethylbenzene	<459	<321	-
Sec-Butylbenzene	<459	<321	-
1,3-Dichlorobenzene	<459	<321	-
4-Isopropyltoluene	<459	<321	-
1,4-Dichlorobenzene	<459	<321	-
1,2-Dichlorobenzene	<459	<321	-
1,4-Diethylbenzene	<459	<321	-
n-Butylbenzene	<459	<321	-
1,2-Dibromo-3-chloropropane	<459	<321	-
1,2,4,5-Tetramethylbenzene	<459	<321	-
1,2,4-Trichlorobenzene	<459	<321	-
Naphthalene	<459	<321	-
Hexachlorobutadiene	<459	<321	-
1,2,3-Trichlorobenzene	<459	<321	-

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (1) USEPA Region 2 UIC Soil Cleanup Objectives (SCO)

TABLE 2
Semi-Volatile Analysis
Soil/Sludge Analytical Results

Parameter	S-1	S-2	SCO (1)
Pyridiene	<1550	<1990	-
N-Nitrosodimethylamine	<459	<589	-
Phenol	<459	<589	-
Aniline	<459	<589	-
2-Chlorophenol	<459	<589	-
Bis(2-Chloroethyl)ether	<459	<589	-
1,3-Dichlorobenzene	<459	<589	-
1,4-Dichlorobenzene	<459	<589	-
Benzyl Alcohol	<459	<589	-
1,2-Dichlorobenzene	<459	<589	-
2-Methylphenol	<459	<589	-
Bis(2-chloroisopropyl)ether	<459	<589	-
Hexachloroethane	<459	<589	-
½ Methylphenol	<459	854	N/A
N-Nitroso-di-n-propylamine	<459	<589	-
Nitrobenzene	<459	<589	-
Isophorone	<459	<589	-
2,4-Dimethylphenol	<459	<589	-
Benzoic Acid	<459	<589	-
Bis(2-Chloroethoxy)methane	<459	<1990	-
2,4-Dichlorophenol	<459	<589	-
1,2,4-Trichlorobenzene	2610	<589	12,000
Naphthalene	<459	<589	-
4-Chloroaniline	<459	<589	-
Hexachlorobutadiene	<459	<589	-
4-Chloro-3-methylphenol	5640	<589	36,400
2-Methylnaphthalene	<459	<589	-
Hexachlorocyclopentadiene	<459	<589	-
2,4,6-Trichlorophenol	<459	<589	-
2,4,5-Trichlorophenol	<459	<589	-
2-Chloronaphthalene	<459	<589	-
2-Nitroaniline	<459	<589	-
Dimethyl phthalate	<459	<589	-
Acenaphthylene	<459	<589	-
2,6-Dinitrotoluene	<459	<589	-
3-Nitroaniline	<459	<589	-
Acenaphthene	<459	<589	-
2,4-Dinitrophenol	<1550	<589	-

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (1) USEPA Region 2 UIC Soil Cleanup Objectives (SCO)

**TABLE 2 (Cont.)
Semi-Volatile Analysis
Soil/Sludge Analytical Results**

Parameter	S-1	S-2	SCO (1)
Dibenzofuran	<459	<589	-
4-Nitrophenol	<1550	<1990	-
2,4-Dinitrotoluene	<459	<589	386,000
Fluorene	<459	605	-
Diethyl phthalate	<459	<589	-
4-Chlorophenyl phenyl ether	<459	<589	-
4-Nitroaniline	<459	<589	-
4,6-Dinitro-2-methylphenol	<1550	<1990	-
N-Nitrosodiphenylamine	<459	<589	-
4-Bromophenyl phenyl ether	<459	<589	-
Hexachlorobenzene	<459	<589	-
Pentachlorophenol	5400	6160	1,000,000
Phenanthrene	841	1690	1,000,000
Anthracene	<459	<589	-
Carbazole	<459	<589	-
Di-n-butyl phthalate	<688	<589	-
Parathion (ethyl)	2950	9250	1,000,000
Fluoranthene	4580	7720	1,000,000
Pyrene	5400	<589	122,000
Butyl benzyl phthalate	1540	4130	1,000
Benzo(a)anthracene	2240	4530	1,000
Chrysene	<459	<589	-
3,3-Dichlorobenzidine	31700	17700	435,000
Bis(2-Ethylhexyl)phthalate	<459	<589	-
Di-n-octyl phthalate	3110	5610	1,700
Benzo(b)fluoranthene	1020	2190	1,700
Benzo(k)fluoranthene	2180	3600	22,000
Benzo(a)pyrene	3790	3140	8,200
Indeno(1,2,3-cd)pyrene	<1830	<589	-
Dibenzo(a,h)anthracene	3580	2810	1,000,000
Benzo(g,h,i)perylene			

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (1) USEPA Region 2 UIC Soil Cleanup Objectives (SCO)

TABLE 3
Pesticides Analysis
Soil/Sludge Analytical Results

Parameter	S-1	S-2	SCO (1)
Alpha-BHC	<11.5	<7.37	-
Gamma-BHC	<11.5	<7.37	-
Beta-BHC	<11.5	<7.37	-
Delta-BHC	<11.5	<7.37	-
Heptachlor	<11.5	<7.37	-
Aldrin	<11.5	<7.37	20
Heptachlor Epoxide	15.2	<7.37	14,000
Trans-Chlordane	197	21.0	N/A
Cis-Chlordane	345	25.7	N/A
4,4'-DDE	12.5	<4.42	17,000
Endosulfan I	<11.5	<7.37	-
Dieldrin	<11.5	<7.37	-
Endrin	<11.5	<7.37	14,000
4,4'-DDD	15.5	<4.42	-
Endosulfan II	<11.5	<7.37	-
4,4'-DDT	<6.88	<4.42	-
Endrin Alderhyde	440	27.1	N/A
Methoxychlor	<11.5	<7.37	-
Endosulfan Sulfate	<11.5	<7.37	-
Endrin Ketone	<11.5	<7.37	-
Toxaphene	<229	<147	-
Chlordane	933	71.5	2,900

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (1) USEPA Region 2 UIC Soil Cleanup Objectives (SCO).

TABLE 4
PCB/Arochlor Analysis
Soil/Sludge Analytical Results

Parameter	S-1	S-2	SCO (1)
Aroclor-1016	<115	<73.7	-
Aroclor-1260	<115	<73.7	-
Aroclor-1221	<115	<73.7	-
Aroclor-1232	<115	<73.7	-
Aroclor-1242	<115	<73.7	-
Aroclor-1248	<115	<73.7	-
Aroclor-1254	<115	<73.7	-
Aroclor-1262	<115	<73.7	-
Aroclor-1268	<115	<73.7	-

NOTES:

- Results reported in ug/kg.
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards.
- (1) USEPA Region 2 UIC Soil Cleanup Objectives (SCO).

TABLE 5
Total Metals Analysis
Soil/Sludge Analytical Results

Parameter	S-1	S-2	SCO(1)
Aluminum	13,900	3,870	N/A
Antimony	<3.23	<2.29	-
Arsenic	21.5	5.58	16.0
Barium	273	78.7	820
Beryllium	<3.23	<2.29	-
Cadmium	15.3	<2.26	7.5
Calcium	5,440	7,730	N/A
Chromium	135	26.3	19.0
Cobalt	17.3	5.57	N/A
Copper	382	93.1	1,720
Iron	22,900	18,100	N/A
Lead	3,250	137	450
Magnesium	5,420	4,020	N/A
Manganese	151	126	2,000
Nickel	154	17.1	130
Potassium	2,810	822	N/A
Selenium	<3.23	<2.29	-
Silver	<3.23	<2.29	-
Sodium	313	189	N/A
Thallium	3.63	<2.29	N/A
Vanadium	73.5	34.8	N/A
Zinc	1,660	228	2,480
Mercury	<0.05	0.03	N/A
Cyanide	<2.29	<1.47	2,480

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (1) USEPA Region 2 UIC Soil Cleanup Objectives (SCO).

TABLE 6
Volatile Analysis
Soil Analytical Results

Parameter	SB-1/ S-3	SB-1/ S-5	SB-2/ S-1	SB-2/ S-3	SB-3/ S-1	SB-3/ S-9	SB-4/ S-1	SB-4/ S-2	SB-4/ S-3	SB-5/ S-1	SB-5/ S-2	SB-5/ S-3	SB-5/ S-4	SB-5/ S-9	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth	4-5'	8-10'	0-2'	4-5'	0-2'	16-18'	0-2'	2-4'	4-6'	0-2'	0-2'	0-2'	4-6'	16-18'			
Dichlorodifluoromethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Chlorodifluoromethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Chloromethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Vinyl chloride	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Bromomethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Chloroethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Trichloromethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Acetone	<742	<5.22	<560	<5.09	<592	<5.05	<539	115	94.1	<569	<569	<569	<5.04	<5.04	50	100,000	500,000
1,1-Dichloroethylene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Tert-Butyl alcohol	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
1,1,2-Trichloro-1,2,2-trifluoroethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Acrylonitrile	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Methylene Chloride	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Carbon disulfide	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Methyl-tert-butyl Ether	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Trans-1,2-Dichloroethylene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
1,1-Dichloroethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Methyl Ethyl Ketone (2-Butanone)	<742	<10.4	<560	<10.2	<592	<10.1	<539	16.3	13.8	<569	<569	<569	<10.1	<10.1	120	100,000	500,000
Cis-1,2-Dichloroethylene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
2,2-Dichloropropane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Bromochloromethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Chloroform	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
1,1,1-Trichloroethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
1,2-Dichloroethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
1,1-Dichloropropylene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
1,1-Dichloroethylene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Carbon Tetrachloride	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Benzene	<297	<5.22	<224	<5.09	<237	<5.05	319	13.2	<5.55	<224	<224	<224	<5.04	<5.04	60	4,800	44,000
Trichloroethylene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
1,2-Dichloropropane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Dibromomethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Bromodichloromethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Methyl Isobutyl Ketone	<742	<569	<560	<10.2	<592	<10.1	<539	59.5	<11.1	<569	<569	<569	<10.1	<10.1	N/A	N/A	N/A
Cis-1,3-Dichloropropylene	<297	<227	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Toluene	<297	<227	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Trans-1,3-Dichloropropylene	<297	<227	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Toluene	<297	<227	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Trans-1,3-Dichloropropylene	<297	<227	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
1,1,2-Trichloroethane	<297	<227	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<224	<224	<5.04	<5.04			
Methyl Butyl Ketone (2-Hexanone)	<742	<569	<560	<5.09	<592	<5.05	<215	<5.40	<5.55	<559	<559	<559	<5.04	<5.04			

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (2) (3) (4) NYSDEC Subpart 375.6; Remedial Program Soil Cleanup Objectives (SCO).

**TABLE 6 (Cont.)
Volatile Analysis
Soil Analytical Results**

Parameter	SB-1/ S-3	SB-1/ S-5	SB-2/ S-1	SB-2/ S-3	SB-3/ S-1	SB-3/ S-9	SB-4/ S-1	SB-4/ S-2	SB-4/ S-3	SB-5/ S-1	SB-5/ S-9	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth	4'-6'	8'-10'	0'-2'	4'-8'	0'-2'	16'-18'	0'-2'	2'-4'	4'-6'	0'-2'	16'-18'			
1,3-Dichloropropane	<297	<227	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
Dibromochloromethane	<742	<569	<560	<5.09	<592	<5.05	<215	<5.40	<5.55	<559	<5.04			
Tetrachloroethylene	<297	<227	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
1,2-Dibromoethane	<297	<227	<224	<5.09	<237	<5.05	<215	21.9	<5.55	<224	<5.04	100,000		500,000
Chlorobenzene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04	1,000	41,000	300,000
1,1,1,2-Tetrachloroethane	<297	<5.22	<224	<5.09	<237	<5.05	283	<5.40	<5.55	<224	<5.04	260	100,000	500,000
Ethylbenzene	<297	<5.22	<224	<5.09	<237	<5.05	1790	3250	<11.1	<447	<10.1			
m,p-Xylenes	<594	<10.4	<448	<10.2	<474	<10.1	<215	<5.40	<5.55	<224	<5.04	260	100,000	500,000
Styrene	<297	<5.22	<224	<5.09	<237	<5.05	283	13.4	<5.55	<224	<5.04			
o-Xylene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
Bromoforn	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
1,1,2,2-Tetrachloroethane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
Isopropylbenzene (Cumene)	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
1,2,3-Trichloropropane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
Bromobenzene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04	3,900	100,000	500,000
n-Propylbenzene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
2-Chlorotoluene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
4-Ethyltoluene	<297	<5.22	<224	<5.09	<237	<5.05	1160	2900	<5.55	<224	<5.04			
4-Chlorotoluene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
1,3,5-Trimethylbenzene	<297	<5.22	<224	<5.09	<237	<5.05	3470	6050	<5.55	<224	<5.04	9,400	52,000	194,000
Tert-Butylbenzene	<742	<5.22	<560	<5.09	<592	<5.05	<539	18.9	<5.55	<559	<5.04	5,900	100,000	500,000
1,2,4-Trimethylbenzene	<297	<5.22	<224	<5.09	<237	<5.05	6730	13100	<5.55	<224	<5.04	3,600	52,000	194,000
Sec-Butylbenzene	<297	27.0	<224	<5.09	<237	<5.05	<215	75.8	<5.55	<224	<5.04	11,000	100,000	500,000
1,3-Dichlorobenzene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
4-Isopropyltoluene	<297	<5.22	<224	<5.09	<237	<5.05	276	182	<5.55	<224	<5.04			
1,4-Dichlorobenzene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
1,2-Dichlorobenzene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
n-Butylbenzene	<297	<5.22	<224	<5.09	<237	<5.05	9540	<5.40	<5.55	<224	<5.04			
1,4-Diethylbenzene	<297	<5.22	<224	<5.09	<237	<5.05	1300	2340	<5.55	<224	<5.04	12,000	100,000	500,000
1,2-Dibromo-3-chloropropane	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
1,2,4,5-Tetramethylbenzene	<297	<5.22	<224	<5.09	<237	<5.05	2750	3110	<5.55	<224	<5.04			
1,2,4-Trichlorobenzene	<297	<5.22	<224	<5.09	<237	<5.05	994	1740	<5.55	<224	<5.04			
Naphthalene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
Hexachlorobutadiene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			
1,2,3-Trichlorobenzene	<297	<5.22	<224	<5.09	<237	<5.05	<215	<5.40	<5.55	<224	<5.04			

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (2) (3) (4) NYSDEC Subpart 375.6: Remedial Program Soil Cleanup Objectives (SCO)

TABLE 7
Semi Volatile Analysis
Soil Analytical Results

Parameter	SB-1/ S-3	SB-1/ S-5	SB-2/ S-1	SB-2/ S-3	SB-2/ S-3	SB-3/ S-1	SB-3/ S-9	SB-4/ S-1	SB-4/ S-2	SB-4/ S-3	SB-5/ S-1	SB-5/ S-9	SB-5/ S-9	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth	4-6'	8-10'	0-2'	4-6'	0-2'	0-2'	16-18'	0-2'	2-4'	4-6'	0-2'	16-18'	16-18'	-	-	-
Pyridiene	<944	<732	<723	<137	<755	<139	<150	<150	<758	<150	<1440	<139	<139	-	-	-
N-Nitrosodimethylamine	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Phenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Aniline	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2-Chlorophenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Bis(2-Chloroethyl)ether	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
1,3-Dichlorobenzene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
1,4-Dichlorobenzene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Benzyl Alcohol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
1,2-Dichlorobenzene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2-Methylphenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Bis(2-chloroisopropyl)ether	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Hexachloroethane	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
3-Methylphenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
N-Nitroso-di-n-propylamine	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Nitrobenzene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Isophorone	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2-Nitrophenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2,4-Dimethylphenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Benzoic Acid	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Bis(2-Chloroethoxy)methane	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2,4-Dichlorophenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
1,2,4-Trichlorobenzene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Naphthalene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
4-Chloroaniline	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Hexachlorobutadiene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
4-Chloro-3-methylphenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2-Methylnaphthalene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Hexachlorocyclopentadiene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2,4,6-Trichlorophenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2,4,5-Trichlorophenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2-Chloronaphthalene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2-Nitroaniline	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Dimethyl phthalate	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Acenaphthylene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2,6-Dinitrotoluene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
3-Nitroaniline	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
Acenaphthene	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-
2,4-Dinitrophenol	<280	<217	<214	<40.7	<224	<41.2	<431	<431	<225	<44.4	<427	<41.1	<41.1	-	-	-

NOTES:
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 • N/A = Not Available
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 • (2) (3) (4) NYSDEC Subpart 375.6: Remedial Program Soil Cleanup Objectives (SCO)

**TABLE 7 (Cont.)
Semi Volatile Analysis
Soil Analytical Results**

Parameter	SB-1/ S-3	SB-1/ S-5	SB-2/ S-1	SB-2/ S-3	SB-3/ S-1	SB-3/ S-9	SB-4/ S-1	SB-4/ S-2	SB-4/ S-3	SB-5/ S-1	SB-5/ S-9	SB-5/ S-16-18'	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth	4-6'	8-10'	0-2'	4-6'	0-2'	16-18'	0-2'	2-4'	4-6'	0-2'	0-2'	16-18'			
Dibenzofuran	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
4-Nitrophenol	<944	<732	<123	<137	<755	<139	<1450	<758	<1440	<427	<139	<139			
2,4-Dinitrotoluene	<944	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1	30,000	100,000	500,000
Fluorene	377	528	<214	<40.7	<224	<41.2	611	<225	<44.4	<427	<427	<41.1			
Diethyl phthalate	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
4-Chlorophenyl phenyl ether	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
4-Nitroaniline	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
4,6-Dinitro-2-methylphenol	<944	<732	<123	<137	<755	<139	<1450	<758	<1440	<427	<139	<139			
N-Nitrosodiphenylamine	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
4-Bromophenyl phenyl ether	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
Hexachlorobenzene	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1	800	6,700	500,000
Pentachlorophenol	<280	<217	<214	<40.7	<224	<41.2	1140	270	<44.4	<427	<427	<41.1	100,000	100,000	500,000
Phenanthrene	1900	387	1230	<40.7	257	<41.2	3300	797	<44.4	540	<427	<41.1	100,000	100,000	500,000
Anthracene	<280	<217	243	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
Carbazole	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
Di-n-butyl phthalate	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
Parathion (ethyl)	<419	<325	<321	<61.1	<336	<61.8	<646	<337	<66.6	<640	<61.6	<61.6			
Fluoranthene	3530	231	2040	<40.7	686	<41.2	5540	1100	<44.4	875	<427	<41.1	100,000	100,000	500,000
Pyrene	3050	311	1850	<40.7	742	<41.2	5020	932	<44.4	1010	<427	<41.1	100,000	100,000	500,000
Butyl benzyl phthalate	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
Benz(a)anthracene	1390	<217	1050	<40.7	465	<41.2	2840	517	<44.4	491	<427	<41.1	1,000	1,000	5,000
Chrysene	1540	<217	1070	<40.7	563	<41.2	3130	524	<44.4	526	<427	<41.1	1,000	3,900	50,000
3,3'Dichlorobenzidine	<280	<217	<214	<40.7	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
Bis(2-Ethylhexyl)phthalate	615	506	336	48.2	291	48.1	488	329	71.0	448	48.6	48.6	N/A	N/A	N/A
Di-n-octyl phthalate	<280	<217	<214	56.3	<224	<41.2	<431	<225	<44.4	<427	<427	<41.1			
Benzofluoranthene	610	<217	569	<40.7	287	<41.2	1360	303	<44.4	<427	<427	<41.1	1,000	1,000	5,000
Benzofluoranthene	2050	391	1740	63.1	1020	<41.2	5490	1050	61.4	1120	<427	<41.1	1,000	3,900	50,000
Benz(a)pyrene	1350	<217	1040	<40.7	559	<41.2	3370	520	<44.4	540	<427	<41.1	1,000	1,000	5,000
Indeno(1,2,3-cd)pyrene	853	<217	780	<40.7	433	<41.2	3400	550	<44.4	441	<427	<41.1	1,000	500	5,000
Dibenz(a,h)anthracene	<280	<217	<214	<40.7	<224	<41.2	362	<225	<44.4	<427	<427	<41.1	330	330	500,000
Benzo(g,h,i)perylene	829	<217	710	<40.7	492	<41.2	3360	535	<44.4	476	<427	<41.1	100,000	100,000	500,000

NOTES:
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 • (2) (3) (4) NYSDEC Subpart 375.6: Remedial Program Soil Cleanup Objectives (SCO)

TABLE 8
Pesticides Analysis
Soil Analytical Results

Parameter	SB-1/ S-3	SB-1/ S-5	SB-2/ S-1	SB-2/ S-3	SB-3/ S-1	SB-3/ S-9	SB-4/ S-1	SB-4/ S-2	SB-4/ S-3	SB-5/ S-1	SB-5/ S-9	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth	4-6'	8-10'	0-2'	4-6'	0-2'	16-18'	0-2'	2-4'	4-6'	0-2'	16-18'			
Alpha-BHC	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Gamma-BHC	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Beta-BHC	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Delta-BHC	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Heptachlor	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Aldrin	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Heptachlor Epoxide	7.30	<5.42	6.77	<5.09	15.6	<5.15	6.46	<5.61	<5.55	6.81	<5.14	N/A	N/A	N/A
Trans-Chlordane	7.60	<5.42	7.63	<5.09	22.7	<5.15	<5.39	<5.61	<5.55	7.53	<5.14	94.0	4,200	24,000
Cis-Chlordane	<4.19	<3.25	<3.21	<3.05	<3.36	<3.09	<3.23	<3.37	<3.33	<3.20	<3.08			
4,4'-DDE	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14		200	1,400
Endosulfan I	<6.99	<5.42	<5.36	<5.09	5.91	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14	5.0		
Dieldrin	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Endrin	<4.19	<3.25	<3.21	<3.05	<3.36	<3.09	<3.23	<3.37	<3.33	<3.20	<3.08			
4,4'-DDD	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Endosulfan II	<4.19	<3.25	<3.21	<3.05	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
4,4'-DDT	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Endrin Aldehyde	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Methoxychlor	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Endosulfan Sulfate	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Endrin Ketone	<6.99	<5.42	<5.36	<5.09	<5.59	<5.15	<5.39	<5.61	<5.55	<5.33	<5.14			
Toxaphene	<140	<108	<107	<102	<112	<103	<108	<112	<111	<107	<103	N/A	N/A	N/A
Chlordane	35.1	<16.3	31.1	<15.3	56.2	<15.5	19.1	<16.8	<16.6	23.3	<15.4			

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (2) (3) (4) NYSDEC Subpart 375.6; Remedial Program Soil Cleanup Objectives (SCO)

TABLE 9
PCB/Arochlor Analysis
Soil Analytical Results

Parameter	SB-1/ S-3	SB-1/ S-5	SB-2/ S-1	SB-2/ S-3	SB-2/ S-3	SB-2/ S-3	SB-3/ S-1	SB-3/ S-9	SB-3/ S-9	SB-4/ S-1	SB-4/ S-2	SB-4/ S-3	SB-5/ S-1	SB-5/ S-9	Unrestricted Use SCO (2)	Restricted – Residential Use SCO (3)	Commercial Use SCO (4)
	4-6'	8-10'	0-2'	0-2'	4-6'	0-2'	0-2'	16-18'	0-2'	0-2'	2-4'	4-6'	0-2'	16-18'			
Depth	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			
Aroclor-1016	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			
Aroclor-1260	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			
Aroclor-1221	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			
Aroclor-1232	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			
Aroclor-1242	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			
Aroclor-1248	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			
Aroclor-1254	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			
Aroclor-1262	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			
Aroclor-1268	<69.9	<54.2	<53.6	<50.9	<50.9	<55.9	<55.9	<51.5	<53.9	<56.1	<55.5	<55.5	<53.3	<51.4			

- NOTES**
- Results reported in ug/kg
 - N/A = Not Available
 - Bold and Shaded = Exceedances of Standards
 - (2) (3) (4) NYSDEC Subpart 375.6: Remedial Program Soil Cleanup Objectives (SCO).

TABLE 10
Total Metals Analysis
Soil Analytical Results

Parameter	SB-1/ S-5	SB-1/ S-5	SB-2/ S-1	SB-2/ S-3	SB-3/ S-1	SB-3/ S-9	SB-4/ S-1	SB-4/ S-2	SB-4/ S-3	SB-5/ S-1	SB-5/ S-9	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth														
Aluminum	4760	6070	6010	3730	9680	3910	10100	13400	6580	7920	2940	N/A	N/A	N/A
Antimony	17.3	<1.74	<1.71	<1.67	<1.72	<1.67	<1.75	<1.76	<1.71	<1.78	<1.67	N/A	N/A	N/A
Arsenic	47.4	<1.74	7.8	<1.67	19.9	<1.67	23.7	5.11	<1.71	2.11	<1.67	13.0	16.0	16.0
Barium	476	58.4	81.2	11.1	103	23.5	92.9	45.6	32.6	56.2	21.3	350	400	400
Beryllium	<2.01	<1.74	<1.71	<1.67	<1.72	<1.67	<1.75	<1.76	<1.71	<1.78	<1.67	-	-	-
Cadmium	2.85	<1.72	<1.69	<1.65	<1.70	<1.65	<1.73	<1.74	<1.69	<1.76	<1.65	2.5	4.3	9.3
Calcium	36600	12000	19800	615	10600	285	29900	2930	1270	14600	215	N/A	N/A	N/A
Chromium (trivalent)	15.5	15.0	13.6	8.45	25.8	11.8	10.6	24.3	17.3	14.7	8.23	30	180	1,500
Cobalt	15.5	5.46	5.48	2.56	6.07	4.88	4.02	6.61	5.88	5.23	3.06	N/A	N/A	N/A
Copper	44.1	30.9	32.0	6.21	29.7	13.7	34.2	13.9	11.4	33.8	6.59	50	270	270
Iron	79600	11800	15200	6020	13300	13700	7590	19300	9110	11700	100	N/A	N/A	N/A
Lead	2350	46.7	100	2.03	124	2.48	180	34.4	24.2	29.3	2.35	63	400	1,000
Magnesium	9980	3130	9440	969	3680	1310	4420	2800	2650	3820	940	N/A	N/A	N/A
Manganese	296	305	146	90.4	250	262	275	272	181	198	165	1,600	2,000	10,000
Nickel	42.0	28.8	12.1	8.45	15.5	13.1	10.8	14.8	16.6	11.7	7.99	30	310	310
Potassium	973	1300	1980	407	1880	925	889	927	1540	1790	934	N/A	N/A	N/A
Selenium	<2.01	<1.74	<1.71	<1.67	<1.72	<1.67	<1.75	<1.76	<1.71	<1.78	<1.67	-	-	-
Silver	<2.01	<1.74	<1.71	<1.67	<1.72	<1.67	<1.75	<1.76	<1.71	<1.78	<1.67	-	-	-
Sodium	674	170	195	63.1	254	40.2	435	118	895	392	36.3	N/A	N/A	N/A
Thallium	<2.01	<1.74	2.15	<1.67	2.26	<1.67	3.55	1.77	3.04	2.34	<1.67	N/A	N/A	N/A
Vanadium	50.0	16.3	21.2	10.1	30.5	14.8	25.2	31.9	22.3	37.1	10.6	N/A	N/A	N/A
Zinc	986	139	93.5	10.3	324	23.2	242	37.1	28.8	49.0	13.2	109	10,000	10,000
Mercury	<0.03	<0.02	0.04	<0.02	<0.02	<0.02	0.02	0.02	<0.02	0.05	<0.02	0.18	0.81	2.8
Cyanide	<1.40	<1.08	<1.07	<1.02	<1.12	<1.03	<1.08	<1.12	<1.11	<1.07	<1.03	-	-	-

NOTES:

- Results reported in mg/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (2) (3) (4) NYSDEC Subpart 375.6: Remedial Program Soil Cleanup Objectives (SCO).

TABLE 11
Volatiles Analysis
Aqueous Analytical Results

Parameter	MW-1	MW-2	MW-3	Standards (5)
Dichlorodifluoromethane	<5.00	<5.00	<5.00	-
Chlorodifluoromethane	<5.00	<5.00	<5.00	-
Chloromethane	<5.00	<5.00	<5.00	-
Vinyl chloride	<5.00	<5.00	<5.00	-
Bromomethane	<5.00	<5.00	<5.00	-
Chloroethane	<5.00	<5.00	<5.00	-
Trichloromethane	<10.0	<10.0	<10.0	-
Acetone	<5.00	<5.00	<5.00	-
1,1-Dichloroethylene	<5.00	<5.00	<5.00	-
Tert-Butyl alcohol	<5.00	<5.00	<5.00	-
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.00	<5.00	<5.00	-
Acrylonitrile	<5.00	<5.00	<5.00	-
Methylene Chloride	<5.00	<5.00	<5.00	-
Carbon disulfide	<5.00	<5.00	<5.00	-
Methyl-tert-butyl Ether	<5.00	<5.00	<5.00	-
Trans-1,2-Dichloroethylene	<5.00	<5.00	<5.00	-
1,1-Dichloroethane	<10.0	<10.0	<10.0	-
Methyl Ethyl Ketone (2-Butanone)	<5.00	<5.00	<5.00	-
Cis-1,2-Dichloroethylene	<5.00	<5.00	<5.00	-
2,2-Dichloropropane	<5.00	<5.00	<5.00	-
Bromochloromethane	<5.00	<5.00	<5.00	-
Chloroform	<5.00	<5.00	<5.00	-
1,1,1-Trichloroethane	<5.00	<5.00	<5.00	-
1,2-Dichloroethane	<5.00	<5.00	<5.00	-
1,1-Dichloropropylene	<5.00	<5.00	<5.00	-
Carbon Tetrachloride	<0.700	<0.700	<0.700	-
Benzene	<5.00	<5.00	<5.00	-
Trichloroethylene	<5.00	<5.00	<5.00	-
1,2-Dichloropropane	<5.00	<5.00	<5.00	-
Dibromomethane	<5.00	<5.00	<5.00	-
Bromodichloromethane	<5.00	<5.00	<5.00	-
Methyl Isobutyl Ketone	<5.00	<5.00	<5.00	-
Cis-1,3-Dichloropropylene	<5.00	<5.00	<5.00	-
Toluene	<5.00	<5.00	<5.00	-
Trans-1,3-Dichloropropylene	<5.00	<5.00	<5.00	-
Toluene	<5.00	<5.00	<5.00	-
Trans-1,3-Dichloropropylene	<5.00	<5.00	<5.00	-
1,1,2-Trichloroethane	<5.00	<5.00	<5.00	-
Methyl Butyl Ketone (2-Hexanone)	<10.0	<10.0	<10.0	-

NOTES:

- Results reported in ug/L.
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (5) NYSDEC Groundwater Quality Standards.

**TABLE 11 (Cont.)
Volatile Analysis
Aqueous Analytical Results**

Parameter	MW-1	MW-2	MW-3	Standards (5)
1,3-Dichloropropane	<5.00	<5.00	<5.00	-
Dibromochloromethane	<5.00	<5.00	<5.00	-
Tetrachloroethylene	<5.00	<5.00	<5.00	-
1,2-Dibromoethane	<5.00	<5.00	<5.00	-
Chlorobenzene	<5.00	<5.00	<5.00	-
1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	-
Ethylbenzene	<10.0	<10.0	<10.0	-
M,p-Xylenes	<5.00	<5.00	<5.00	-
Styrene	<5.00	<5.00	<5.00	-
O-Xylene	<5.00	<5.00	<5.00	-
Bromoform	<5.00	<5.00	<5.00	-
1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	-
Isopropylbenzene (Cumene)	<5.00	<5.00	<5.00	-
1,2,3-Trichloropropane	<5.00	<5.00	<5.00	-
Bromobenzene	<5.00	<5.00	<5.00	-
n-Propylbenzene	<5.00	<5.00	<5.00	-
2-Chlorotoluene	<5.00	<5.00	<5.00	-
4-Ethyltoluene	<5.00	<5.00	<5.00	-
4-Chlorotoluene	<5.00	<5.00	<5.00	-
1,3,5-Trimethylbenzene	<5.00	<5.00	<5.00	-
Tert-Butylbenzene	<5.00	<5.00	<5.00	-
1,2,4-Trimethylbenzene	<5.00	<5.00	<5.00	-
Sec-Butylbenzene	<5.00	<5.00	<5.00	-
1,3-Dichlorobenzene	<5.00	<5.00	<5.00	-
4-Isopropyltoluene	<5.00	<5.00	<5.00	-
1,2-Dichlorobenzene	<5.00	<5.00	<5.00	-
1,4-Dichlorobenzene	<5.00	<5.00	<5.00	-
1,4-Diethylbenzene	<5.00	<5.00	<5.00	-
n-Butylbenzene	<5.00	<5.00	<5.00	-
1,2-Dibromo-3-chloropropane	<5.00	<5.00	<5.00	-
1,2,4,5-Tetramethylbenzene	<5.00	<5.00	<5.00	-
1,2,4-Trichlorobenzene	<5.00	<5.00	<5.00	-
Naphthalene	<5.00	<5.00	<5.00	-
Hexachlorobutadiene	<5.00	<5.00	<5.00	-
1,2,3-Trichlorobenzene	<5.00	<5.00	<5.00	-

NOTES:

- Results reported in ug/L
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (5) NYSDEC Groundwater Quality Standards

TABLE 12
Semi Volatile Analysis
Aqueous Analytical Results

Parameter	MW-1	MW-2	MW-3	Standards (5)
Pyridiene	<5.00	<5.00	<5.00	-
N-Nitrosodimethylamine	<5.00	<5.00	<5.00	-
Phenol	<5.00	<5.00	<5.00	-
Aniline	<5.00	<5.00	<5.00	-
2-Chlorophenol	<5.00	<5.00	<5.00	-
Bis(2-Chloroethyl)ether	<5.00	<5.00	<5.00	-
1,3-Dichlorobenzene	<5.00	<5.00	<5.00	-
1,4-Dichlorobenzene	<5.00	<5.00	<5.00	-
Benzyl Alcohol	<5.00	<5.00	<5.00	-
1,2-Dichlorobenzene	<5.00	<5.00	<5.00	-
2-Methylphenol	<5.00	<5.00	<5.00	-
Bis(2-chloroisopropyl)ether	<5.00	<5.00	<5.00	-
Hexachloroethane	<5.00	<5.00	<5.00	-
¾ Methylphenol	<5.00	<5.00	<5.00	-
N-Nitroso-di-n-propylamine	<5.00	<5.00	<5.00	-
Nitrobenzene	<5.00	<5.00	<5.00	-
Isophorone	<5.00	<5.00	<5.00	-
2-Nitrophenol	<5.00	<5.00	<5.00	-
2,4-Dimethylphenol	<5.00	<5.00	<5.00	-
Benzoic Acid	<10.0	<10.0	<10.0	-
Bis(2-Chloroethoxy)methane	<5.00	<5.00	<5.00	-
2,4-Dichlorophenol	<5.00	<5.00	<5.00	-
1,2,4-Trichlorobenzene	<5.00	<5.00	<5.00	-
Naphthalene	<5.00	<5.00	<5.00	-
4-Chloroaniline	<5.00	<5.00	<5.00	-
Hexachlorobutadiene	<5.00	<5.00	<5.00	-
4-Chloro-3-methylphenol	<5.00	<5.00	<5.00	-
2-Methylnaphthalene	<5.00	<5.00	<5.00	-
Hexachlorocyclopentadiene	<5.00	<5.00	<5.00	-
2,4,6-Trichlorophenol	<5.00	<5.00	<5.00	-
2,4,5-Trichlorophenol	<5.00	<5.00	<5.00	-
2-Chloronaphthalene	<5.00	<5.00	<5.00	-
2-Nitroaniline	<5.00	<5.00	<5.00	-
Dimethyl phthalate	<5.00	<5.00	<5.00	-
Acenaphthylene	<5.00	<5.00	<5.00	-
2,6-Dinitrotoluene	<5.00	<5.00	<5.00	-
3-Nitroaniline	<5.00	<5.00	<5.00	-
Acenaphthene	<5.00	<5.00	<5.00	-
2,4-Dinitrophenol	<10.0	<10.0	<10.0	-

NOTES:

- Results reported in ug/L.
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (5) NYSDEC Groundwater Quality Standards

**TABLE 12 (Cont.)
Semi Volatile Analysis
Aqueous Analytical Results**

Parameter	MW-1	MW-2	MW-3	Standards (5)
Dibenzofuran	<5.00	<5.00	<5.00	-
4-Nitrophenol	<5.00	<5.00	<5.00	-
2,4-Dinitrotoluene	<5.00	<5.00	<5.00	-
Fluorene	<5.00	<5.00	<5.00	-
Diethyl phthalate	<5.00	<5.00	<5.00	-
4-Chlorophenyl phenyl ether	<5.00	<5.00	<5.00	-
4-Nitroaniline	<5.00	<5.00	<5.00	-
4,6-Dinitro-2-methylphenol	<5.00	<5.00	<5.00	-
N-Nitrosodiphenylamine	<5.00	<5.00	<5.00	-
4-Bromophenyl phenyl ether	<5.00	<5.00	<5.00	-
Hexachlorobenzene	<5.00	<5.00	<5.00	-
Pentachlorophenol	<5.00	<5.00	<5.00	-
Phenanthrene	<5.00	<5.00	<5.00	-
Anthracene	<5.00	<5.00	<5.00	-
Carbazole	<5.00	<5.00	<5.00	-
Di-n-butyl phthalate	<5.00	<5.00	<5.00	-
Parathion (ethyl)	<5.00	<5.00	<5.00	-
Fluoranthene	<5.00	<5.00	<5.00	-
Pyrene	<5.00	<5.00	<5.00	-
Butyl benzyl phthalate	<5.00	<5.00	<5.00	-
Benzol(a)anthracene	<5.00	<5.00	<5.00	-
Chrysene	<5.00	<5.00	<5.00	-
3,3'Dichlorobenzidine	<5.00	<5.00	<5.00	-
Bis(2-Ethylhexyl)phthalate	<5.00	<5.00	<5.00	-
Di-n-octyl phthalate	<5.00	<5.00	<5.00	-
Benzo(b)fluoranthene	<5.00	<5.00	<5.00	-
Benzo(k)fluoranthene	<5.00	<5.00	<5.00	-
Benzo(a)pyrene	<5.00	<5.00	<5.00	-
Indeno(1,2,3-cd)pyrene	<5.00	<5.00	<5.00	-
Dibenzol(a,h)anthracene	<5.00	<5.00	<5.00	-
Benzo(g,h,i)perylene	<5.00	<5.00	<5.00	-

NOTES:

- Results reported in ug/L.
- N/A = Not Available.
- Bold and Shaded = Exceedances of Standards
- (5) NYSDEC Groundwater Quality Standards

TABLE 13
Pesticides Analysis
Aqueous Analytical Results

Parameter	MW-1	MW-2	MW-3	Standards (5)
Alpha-BHC	<1.00	<1.00	<1.00	-
Gamma-BHC	<1.00	<1.00	<1.00	-
Beta-BHC	<1.00	<1.00	<1.00	-
Delta-BHC	<1.00	<1.00	<1.00	-
Heptachlor	<1.00	<1.00	<1.00	-
Aldrin	<1.00	<1.00	<1.00	-
Heptachlor Epoxide	<1.00	<1.00	<1.00	-
Trans-Chlordane	<1.00	<1.00	<1.00	-
Cis-Chlordane	<1.00	<1.00	<1.00	-
4,4'-DDE	<1.00	<1.00	<1.00	-
Endosulfan I	<1.00	<1.00	<1.00	-
Dieldrin	<1.00	<1.00	<1.00	-
Endrin	<1.00	<1.00	<1.00	-
4,4-DDD	<1.00	<1.00	<1.00	-
Endosulfan II	<1.00	<1.00	<1.00	-
4,4-DDT	<1.00	<1.00	<1.00	-
Endrin Aldehyde	<1.00	<1.00	<1.00	-
Methoxychlor	<1.00	<1.00	<1.00	-
Endosulfan Sulfate	<1.00	<1.00	<1.00	-
Endrin Ketone	<1.00	<1.00	<1.00	-
Toxaphene	<2.00	<2.00	<2.00	-
Chlordane	<2.00	<2.00	<2.00	-

NOTES:

- Results reported in ug/L.
- N/A = Not Available.
- Bold and Shaded = Exceedances of Standards.
- (5) NYSDEC Groundwater Quality Standards.

TABLE 14
PCB/Arochlor Analysis
Aqueous Analytical Results

Parameter	MW-1	MW-2	MW-3	Standards (5)
Aroclor-1016	<0.500	<0.500	<0.500	-
Aroclor-1260	<0.500	<0.500	<0.500	-
Aroclor-1221	<0.500	<0.500	<0.500	-
Aroclor-1232	<0.500	<0.500	<0.500	-
Aroclor-1242	<0.500	<0.500	<0.500	-
Aroclor-1248	<0.500	<0.500	<0.500	-
Aroclor-1254	<0.500	<0.500	<0.500	-
Aroclor-1262	<0.500	<0.500	<0.500	-
Aroclor-1268	<0.500	<0.500	<0.500	-

NOTES:

- Results reported in ug/L.
- N/A = Not Available.
- Bold and Shaded = Exceedances of Standards.
- (5) NYSDEC Groundwater Quality Standards.

TABLE 15
Total Metals Analysis
Aqueous Analytical Results

Parameter	MW-1	MW-2	MW-3	Standards (5)
Aluminum	1.29	14.1	2.97	N/A
Calcium	38.4	68.4	42.4	N/A
Antimony	<0.05	2.08	<0.05	0.003
Arsenic	<0.05	2.12	<0.05	0.025
Barium	0.08	2.24	0.08	1.0
Beryllium	<0.02	2.06	<0.02	3.0
Cadmium	<0.005	2.06	<0.005	0.005
Chromium	<0.05	2.07	<0.05	0.050
Cobalt	<0.05	2.08	<0.05	N/A
Copper	<0.02	2.10	0.02	0.2
Iron	7.93	35.3	11.8	0.3
Lead	<0.050	2.10	<0.050	0.025
Magnesium	6.87	28.8	7.10	35.0
Manganese	0.39	3.78	0.86	0.3
Nickel	<0.05	2.13	<0.05	0.1
Potassium	5.93	18.1	7.81	N/A
Selenium	<0.02	2.10	<0.02	0.01
Silver	<0.005	0.24	<0.005	0.05
Sodium	65.3	84.7	49.6	20.0
Thallium	<0.05	2.07	<0.05	0.0005
Vanadium	<0.05	2.07	<0.05	N/A
Zinc	<0.05	2.11	0.05	2.0
Mercury	<0.002	<0.002	<0.002	-
Cyanide	<0.02	<0.02	<0.02	-

NOTES:

- Results reported in mg/L.
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (5) NYSDEC Groundwater Quality Standards

TABLE 16
Dissolved Metals Analysis
Aqueous Analytical Results

Parameter	MW-1	MW-2	MW-3	Standards (5)
Aluminum	0.88	0.92	1.47	N/A
Calcium	41.4	52.7	59.6	N/A
Antimony	<0.05	<0.05	<0.05	-
Arsenic	<0.05	<0.05	<0.05	-
Barium	0.09	0.08	0.11	1.0
Beryllium	<0.02	<0.02	<0.02	-
Cadmium	<0.005	<0.005	<0.005	-
Chromium	<0.05	<0.05	<0.05	-
Cobalt	<0.05	<0.05	<0.05	-
Copper	<0.02	0.02	0.02	0.2
Iron	5.52	3.14	6.21	0.3
Lead	<0.05	<0.05	<0.05	-
Magnesium	7.50	8.82	9.31	35.0
Manganese	0.33	0.66	1.22	0.3
Nickel	<0.05	<0.05	<0.05	-
Potassium	5.99	8.89	9.69	N/A
Selenium	<0.02	<0.02	<0.02	-
Silver	<0.005	<0.005	<0.005	-
Sodium	69.4	62.3	95.0	20.0
Thallium	<0.05	<0.05	<0.05	-
Vanadium	<0.05	<0.05	<0.05	-
Zinc	<0.05	<0.05	<0.05	-
Mercury	<0.002	<0.002	<0.002	-
Cyanide	-	-	-	-

NOTES:

- Results reported in mg/L
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (5) NYSDEC Groundwater Quality Standards

TABLE 17
Volatiles Analysis
Soil Analytical Results

Parameter	GP-1/ S-5	GP-2/ S-1	GP-3/ S-2	GP-4/ S-6	GP-5/ S-6	GP-6/ S-4	GP-7/ S-6	GP-8/ S-1	GP-8/ S-1	GP-9/ S-1	GP-10/ S-6	GP-11/ S-6	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth	8-10'	0-2'	2-4'	10-12'	10-12'	6-8'	10-12'	0-2'	0-2'	10-12'	10-12'	10-12'			
Dichlorodifluoromethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Chlorodifluoromethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Chloromethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Vinyl chloride	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Bromomethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Chloroethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Trichlorofluoromethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14	50	100,000	
Acetone	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
1,1-Dichloroethylene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Tert-Butyl alcohol	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
1,1,2-Trichloro-1,2-trifluoroethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Acrylonitrile	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Methylene Chloride	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Carbon disulfide	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Methyl-tert-butyl Ether	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Trans-1,2-Dichloroethylene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
1,1-Dichloroethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Methyl Ethyl Ketone (2-Butanone)	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Cis-1,2-Dichloroethylene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
2,2-Dichloropropane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Bromochloromethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Chloroform	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
1,1,1-Trichloroethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
1,2-Dichloroethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
1,1-Dichloropropylene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Carbon Tetrachloride	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Benzene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Trichloroethylene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
1,2-Dichloropropane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Dibromomethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
1,4-Dioxane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Bromodichloromethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Methyl Isobutyl Ketone	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Cis-1,3-Dichloropropylene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Toluene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Trans-1,3-Dichloropropylene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Toluene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Trans-1,3-Dichloropropylene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
1,1,2-Trichloroethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			
Methyl Butyl Ketone (2-Hexanone)	<5.84	<669	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.23	<5.14			

NOTES

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards.
- (2) (3) (4) NYSDEC Subpart 375.6: Remedial Program Soil Cleanup Objectives (SCO).

**TABLE 17 (Cont.)
Volatile Analysis
Soil Analytical Results**

Parameter	GP-1/ S-5	GP-2/ S-1	GP-3/ S-2	GP-4/ S-6	GP-5/ S-6	GP-6/ S-4	GP-7/ S-6	GP-8/ S-1	GP-9/ S-1	GP-10/ S-6	GP-11/ S-6	Unrestricted Use SCO (2)	Restricted – Residential Use SCO (3)	Commercial Use SCO (4)
Depth	8-10'	0-2'	2-4'	10-12'	10-12'	6-8'	10-12'	0-2'	0-2'	10-12'	10-12'			
1,3-Dichloropropane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.14			
Dibromochloromethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.14			
Tetrachloroethylene	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	8.89	8.89	<5.23	<5.14	1,300	19,000	150,000
1,2-Dibromoethane	<5.84	<268	<5.75	<6.16	<6.41	<6.37	<5.20	<5.65	<5.61	<5.23	<5.14			
Chlorobenzene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
1,1,1,2-Tetrachloroethane	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
Ethylbenzene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
1,1,1,2-Tetrachloroethane	<11.7	<535	<11.5	<12.3	<12.8	<657	<10.4	<11.3	<11.2	<10.5	<10.3			
m,p-Xylenes	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
o-Xylene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
Bromoform	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
1,1,2,2-Tetrachloroethane	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
Isopropylbenzene (Cumene)	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
1,2,3-Trichloropropane	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
Bromobenzene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
n-Propylbenzene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
2-Chlorotoluene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
4-Chlorotoluene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14	8,400	52,000	150,000
1,3,5-Trimethylbenzene	<5.84	328	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
Tert-Butylbenzene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
1,2,4-Trimethylbenzene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
Sec-Butylbenzene	<5.84	<268	<5.75	<6.16	<6.41	<328	<5.20	<5.65	<5.61	<5.23	<5.14			
1,3-Dichlorobenzene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
4-Isopropyltoluene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
1,4-Dichlorobenzene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
1,2-Dichlorobenzene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
1,4-Diethylbenzene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
n-Butylbenzene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
1,2-Dibromo-3-chloropropane	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
1,2,4,5-Tetramethylbenzene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
1,2,4-Trichlorobenzene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
Naphthalene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
Hexachlorobutadiene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			
1,2,3-Trichlorobenzene	<5.84	<268	<281	<6.16	<6.41	<328	<5.20	<5.65	<249	<5.23	<5.14			

NOTES:

- Results reported in ug/kg
- N/A = Not Available.
- Bold and Shaded = Exceedances of Standards.
- (2) (3) (4) NYSDEC Subpart 375.6: Remedial Program Soil Cleanup Objectives (SCO)

TABLE 18
Semi Volatile Analysis
Soil Analytical Results

Parameter	GP-1/ S-5	GP-2/ S-1	GP-3/ S-2	GP-4/ S-6	GP-5/ S-6	GP-6/ S-4	GP-7/ S-6	GP-8/ S-1	GP-8/ S-1	GP-9/ S-1	GP-10/ S-6	GP-11/ S-6	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth	8'-10'	0'-2'	2'-4'	10'-12'	10'-12'	6'-8'	10'-12'	0'-2'	0'-2'	0'-2'	10'-12'	10'-12'			
Pyridene	<314	<814	<155	<155	<155	<163	<141	<151	<1490	<141	<141	<140			
N-Nitrosodimethylamine	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Phenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Aniline	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2-Chlorophenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Bis(2-Chloroethyl)ether	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
1,3-Dichlorobenzene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
1,4-Dichlorobenzene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Benzyl Alcohol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
1,2-Dichlorobenzene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2-Methylphenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Bis(2-chloroisopropyl)ether	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Hexachloroethane	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
3-Methylphenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
N-Nitroso-d-n-propylamine	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Nitrobenzene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Isophorone	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2-Nitrophenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2,4-Dimethylphenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Benzoic Acid	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Bis(2-Chloroethoxy)methane	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2,4-Dichlorophenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
1,2,4-Trichlorobenzene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Naphthalene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
4-Chloroaniline	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Hexachlorobutadiene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
4-Chloro-3-methylphenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2-Methylnaphthalene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Hexachlorocyclopentadiene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2,4,6-Trichlorophenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2,4,5-Trichlorophenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2-Chloronaphthalene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2-Nitroaniline	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Dimethyl phthalate	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Acenaphthylene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2,6-Dinitrotoluene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
3-Nitroaniline	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
Acenaphthene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<442	<41.7	<41.7	<41.5			
2,4-Dinitrophenol	<314	<814	<155	<155	<155	<163	<141	<151	<1490	<141	<141	<140			

NOTES
 • Results reported in ug/kg
 • N/A = Not Available
 • Bold and Shaded = Exceedances of Standards
 • (2) (3) (4) NYSDCE Subpart 375.6; Remedial Program Soil Cleanup Objectives (SCO)

**TABLE 18 (Cont.)
Semi Volatile Analysis
Soil Analytical Results**

Parameter	GP-1/ S-5	GP-2/ S-2	GP-3/ S-2	GP-4/ S-6	GP-5/ S-6	GP-6/ S-4	GP-7/ S-6	GP-8/ S-1	GP-9/ S-1	GP-10/ S-6	GP-11/ S-6	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
	8-10'	0-2'	2-4'	10-12'	10-12'	6-8'	10-12'	0-2'	0-2'	10-12'	10-12'			
Depth	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
Dibenzofuran	<314	<814	<155	<155	<155	<163	<141	<151	<1490	<141	<140			
4-Nitrophenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
2,4-Dinitrotoluene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
Fluorene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
Diethyl phthalate	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
4-Chlorophenyl phenyl ether	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
4-Nitroaniline	<314	<814	<155	<155	<155	<163	<141	<151	<1490	<141	<140			
4,6-Dinitro-2-methylphenol	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
N-Nitrosodiphenylamine	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
4-Bromophenyl phenyl ether	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
Hexachlorobenzene	256	418	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	800	6,700	500,000
Pentachlorophenol	<92.9	756	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	100,000	100,000	500,000
Phenanthrene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
Anthracene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
Carbazole	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
Di-n-butyl phthalate	<139	<362	<66.7	<66.8	<66.8	<72.3	<62.5	<66.9	<66.3	<62.5	<62.2			
Parathion (ethyl)	<92.9	1440	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	100,000	100,000	500,000
Fluoranthene	<92.9	1310	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	100,000	100,000	500,000
Pyrene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
Butyl benzyl phthalate	<92.9	764	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	1,000	1,000	5,000
Benz(a)anthracene	<92.9	820	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	1,000	3,900	50,000
Chrysene	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5			
3,3'Dichlorobenzidine	209	491	<45.8	55.0	<45.9	853	<41.7	<44.6	<44.2	52.1	<41.5	N/A	N/A	N/A
Bis(2-Ethylhexyl)phthalate	<92.9	<241	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	582	<41.7	<41.5	1,000	1,000	5,000
Di-n-octyl phthalate	<92.9	1250	<45.8	<45.9	<45.9	69.9	<41.7	<44.6	575	<41.7	56.0	1,000	3,900	50,000
Benz(b)fluoranthene	<92.9	563	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	800	1,000	1,000
Benz(k)fluoranthene	<92.9	832	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	1,000	1,000	5,000
Benz(a)pyrene	<92.9	812	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	500	500	5,000
Indeno(1,2,3-cd)pyrene	<92.9	249	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	330	330	500
Dibenz(a,h)anthracene	<92.9	760	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	100,000	100,000	500,000
Benz(g,h,i)perylene	<92.9	760	<45.8	<45.9	<45.9	<48.2	<41.7	<44.6	<44.2	<41.7	<41.5	100,000	100,000	500,000

NOTES
 • Results reported in ug/kg
 • N/A = Not Available
 • Bold and Shaded = Exceedances of Standards
 • (2) (3) (4) NYSDEC Subpart 375.6: Remedial Program Soil Cleanup Objectives (SCO)

TABLE 19
Pesticides Analysis
Soil Analytical Results

Parameter	GP-4/ S-6	GP-5/ S-6	GP-6/ S-4	GP-7/ S-6	GP-8/ S-1	GP-9/ S-1	GP-10/ S-6	GP-11/ S-6	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth	10-12'	10-12'	6-8'	10-12'	0-2'	0-2'	10-12'	10-12'			
Alpha-BHC	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Gamma-BHC	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Beta-BHC	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Delta-BHC	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Heptachlor	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Aldrin	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Heptachlor Epoxide	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Trans-Chlordane	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Cis-Chlordane	<3.44	<3.44	<7.23	<3.13	<3.35	<6.63	<6.25	<3.11			
4,4'-DDE	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Endosulfan I	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Dieldrin	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Endrin	<3.44	<3.44	<7.23	<3.13	<3.35	<6.63	<6.25	<3.11			
4,4'-DDD	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Endosulfan II	<3.44	<3.44	<7.23	<3.13	<3.35	<6.63	<6.25	<3.11			
4,4'-DDT	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Endrin Aldelyde	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Melchxychlor	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Endosulfan Sulfate	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Endrin Kelone	<5.73	<5.74	<12.1	<5.21	<5.58	<11.1	<10.4	<5.18			
Toxaphene	<17.2	<17.2	<36.2	<15.6	<16.7	<33.2	<208	<104			
Chlordane	<17.2	<17.2	<36.2	<15.6	<16.7	<33.2	<31.3	<15.5			

NOTES:
 • Results reported in ug/kg
 • N/A = Not Available
 • Bold and Shaded = Exceedances of Standards
 • (2) (3) (4) NYSDEC Subpart 375.6: Remedial Program Soil Cleanup Objectives (SCO).

TABLE 20
PCB/Arochlor Analysis
Soil Analytical Results

Parameter	GP-4/ S-6	GP-5/ S-6	GP-6/ S-4	GP-7/ S-6	GP-8/ S-1	GP-9/ S-1	GP-10/ S-6	GP-11/ S-6	Unrestricted Use SCO (2)	Restricted - Residential Use SCO (3)	Commercial Use SCO (4)
Depth	10-12'	10-12'	6-8'	10-12'	0-2'	0-2'	10-12'	10-12'			
Aroclor-1016	<57.3	<57.4	<60.3	<52.1	<55.8	<55.3	<52.1	<51.8			
Aroclor-1260	<57.3	<57.4	<60.3	<52.1	<55.8	<55.3	<52.1	<51.8			
Aroclor-1221	<57.3	<57.4	<60.3	<52.1	<55.8	<55.3	<52.1	<51.8			
Aroclor-1232	<57.3	<57.4	<60.3	<52.1	<55.8	<55.3	<52.1	<51.8			
Aroclor-1242	<57.3	<57.4	<60.3	<52.1	<55.8	<55.3	<52.1	<51.8			
Aroclor-1248	<57.3	<57.4	<60.3	<52.1	<55.8	<55.3	<52.1	<51.8			
Aroclor-1254	<57.3	<57.4	<60.3	<52.1	<55.8	<55.3	<52.1	<51.8			
Aroclor-1262	<57.3	<57.4	<60.3	<52.1	<55.8	<55.3	<52.1	<51.8			
Aroclor-1268	<57.3	<57.4	<60.3	<52.1	<55.8	<55.3	<52.1	<51.8			

NOTES:

- Results reported in ug/kg
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards
- (2) (3) (4) NYSDEC Subpart 375.6; Remedial Program Soil Cleanup Objectives (SCO)

TABLE 21
Total Metals Analysis
Soil Analytical Results

Parameter	GP-4/ S-6	GP-5/ S-6	GP-6/ S-4	GP-7/ S-6	GP-8/ S-1	GP-9/ S-1	GP-10/ S-6	GP-11/ S-6	Unrestricted Use SCO (2)	Restricted – Residential Use SCO (3)	Commercial Use SCO (4)
Depth	10-12'	10-12'	6-8'	10-12'	0-2'	0-2'	10-12'	10-12'			
Aluminum	8210	12100	12900	2810	13000	12600	3100	3100	N/A	N/A	N/A
Antimony	<1.83	<17.7	<17.7	<1.67	<17.7	<18.1	<1.67	<1.76	N/A	N/A	N/A
Arsenic	2.62	<17.7	<17.7	<1.67	<17.7	<18.1	<1.67	<1.76	13.0	16.0	16
Barium	32.7	45.1	66.3	18.0	49.4	79.4	22.0	21.1	350	400	400
Beryllium	<1.83	<17.7	<17.7	<1.67	<17.7	<18.1	<1.67	<1.67	-	-	-
Cadmium	<1.81	<17.5	<17.4	<1.65	<17.5	<17.9	<1.65	<1.65	N/A	N/A	N/A
Calcium	544	570	786	172	972	12200	437	240	30	180	1,500
Chromium (trivalent)	16.0	22.6	23.8	9.82	18.3	19.2	10.3	7.27	N/A	N/A	N/A
Cobalt	7.58	<17.7	<17.7	2.92	<17.7	<18.1	2.77	2.89	50	270	270
Copper	13.5	<17.7	32.5	5.54	<17.7	23.1	6.99	6.88	N/A	N/A	N/A
Iron	<5.48	18700	17000	5140	13700	16700	7980	6230	63	400	1,000
Lead	3.76	<17.7	57.7	1.72	<17.7	287	2.33	2.23	N/A	N/A	N/A
Magnesium	2180	2280	2620	840	1760	3450	1020	830	N/A	2,000	15,000
Manganese	236	209	313	260	270	318	121	139	1,600	310	310
Nickel	18.9	18.2	22.3	6.55	<17.7	<18.1	7.02	6.95	30	310	N/A
Potassium	1020	984	1090	580	522	1180	550	432	N/A	N/A	N/A
Selenium	<1.83	<17.7	<17.7	<1.67	<17.7	<18.1	<1.67	<1.67	-	-	-
Silver	<1.83	<17.7	<17.7	<1.67	<17.7	<18.1	<1.67	<1.67	N/A	N/A	N/A
Sodium	94.0	82.4	71.4	40.4	391	254	40.8	31.9	N/A	N/A	N/A
Thallium	1.87	<17.7	<17.7	<1.67	<17.7	<18.1	<1.67	<1.67	N/A	N/A	N/A
Vanadium	20.5	28.1	32.6	8.32	23.6	29.7	11.2	8.59	N/A	N/A	N/A
Zinc	26.3	34.4	116	11.0	23.0	169	14.2	13.3	109	10,000	10,000
Mercury	<0.02	<0.02	0.10	<0.02	0.02	0.07	<0.02	<0.02	0.18	0.81	2.8
Cyanide	<1.15	<1.15	<1.21	<1.04	<1.12	<1.11	<1.04	<1.04	-	-	-

NOTES

- Results reported in mg/kg.
- N/A = Not Available
- Bold and Shaded = Exceedances of Standards.
- (2) (3) (4) NYSDEC Subpart 375.6; Remedial Program Soil Cleanup Objectives (SCO).

13-671: 186-02 Jamaica Ave, Queens, N.Y.

**TABLE 22 (Cont.)
EPA Method TO-15
Soil Vapor Analytical Results**

Parameter	SV-1	IA-1	Guidance (6)
Freon 12	2.6	2.7	N/A
Heptane	20	<0.62	N/A
Hexachloro-1,3-butadiene	<1.6	<1.6	N/A
Hexane	11	0.61	N/A
Isopropyl alcohol	11	4.6	N/A
m&p Xylene	55	1.2	N/A
Methyl Butyl Ketone	<1.2	<1.2	N/A
Methyl Ethyl Ketone	12	0.81	N/A
Methyl Isobutyl Ketone	<1.2	<1.2	N/A
Methyl tert-butyl ether	<0.55	<0.55	N/A
Methylene chloride	0.60	0.60	N/A
o-Xylene	<0.66	0.53	N/A
Propylene	<0.26	<0.26	N/A
Styrene	<0.65	<0.65	N/A
Tetrachloroethylene	8.3	0.97	SEE TABLE 23
Tetrahydrofuran	11	<0.45	N/A
Toluene	21	2.4	N/A
Trans-1,2-Dichloroethene	<0.60	<0.60	N/A
Trans-1,3-Dichloropropene	<0.69	<0.69	N/A
Trichloroethane	<0.82	<0.22	SEE TABLE 23
Vinyl acetate	<0.54	<0.54	N/A
Vinyl Bromide	<0.67	<0.67	N/A
Vinyl chloride	<0.39	<0.10	N/A

NOTES:

- Results reported in ug/m3.
- N/A = Not Available.
- (6) New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Dated October 2006).
- Sampling Date: 3/25/2014 (Weather Conditions: Partly Cloudy, 28° F; BP: 30.06 in.).

TABLE 23
EPA Method TO-15
Soil Vapor Analytical Results

Parameter	SV-1	IA-1	Guidance (6)
1,1,1-Trichloroethane	<0.83	<0.83	No Further Action
Carbon Tetrachloride	<0.96	<0.26	No Further Action
Tetrachloroethylene	8.3	0.97	No Further Action
Trichloroethane	<0.82	<0.22	No Further Action

NOTES:

- Results reported in ug/m³
- (6) New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Dated October 2006)
- Sampling Date: 3/25/2014 (Weather Conditions: Partly Cloudy; 28° F; BP: 30.06 in.)

No further action: Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

Take reasonable and practical actions to identify source(s) and reduce exposures: The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing VOC containing products in places where people do not spend much time, such as a garage or outdoor shed). Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

MONITOR: Monitoring, including sub-slab vapor, basement air, lowest occupied living space area, and outdoor air sampling is needed to determine whether concentrations in the indoor air or sub-slab vapor air have changed. Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined on a site specific and building specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE:

Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combinations of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated media are remediated.

MONITOR/MITIGATE: Monitoring or mitigation may be recommended after considering the magnitude of sub-slab vapor and indoor air concentrations along with building- and site- specific conditions.

TABLE 24
EPA Method TO-15
Soil Vapor Analytical Results

Parameter	SV-2	SV-3	SV-4	SV-5	SV-6	OA-1	Background Levels (7)
1,1,1-Trichloroethane	<0.63	<0.83	<0.83	<0.83	1.1	<0.83	<0.25-1.1
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<0.83	<1.0	-
1,1,2-Trichloroethane	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	-
1,1-Dichloroethane	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	-
1,1-Dichloroethene	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	-
1,2,4-Trichlorobenzene	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	-
1,2,4-Trimethylbenzene	1.2	1.0	2.0	0.95	1.1	<0.75	0.69-4.3
1,2-Dibromomethane	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	-
1,2-Dichlorobenzene	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	-
1,2-Dichloroethane	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	-
1,2-Dichloropropane	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	-
1,3,5-Trimethylbenzene	<0.75	<0.75	0.65	<0.75	<0.75	<0.75	0.27-1.7
1,3-butadiene	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	-
1,3-Dichlorobenzene	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	-
1,4-Dichlorobenzene	0.86	<0.92	1.0	0.67	0.92	<0.92	<0.25-0.54
1,4-Dioxane	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	-
1,4-Dioxane	0.62	1.2	1.3	4.3	1.0	<0.71	N/A
2,2,4-Trimethylpentane	<0.75	<0.75	0.60	<0.75	<0.75	<0.75	N/A
4-ethyltoluene	27	17	44	37	42	69	10-52
Acetone	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	-
Allyl chloride	1.0	1.5	2.7	2.6	1.7	0.75	1.1-5.9
Benzene	<0.88	<0.88	<0.88	<0.88	<0.88	<0.88	-
Benzyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-
Bromodichloromethane	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	-
Bromoform	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	-
Bromomethane	0.32	0.41	1.6	2.4	42	<0.47	N/A
Carbon disulfide	<0.96	<0.96	<0.96	<0.96	<0.96	<0.26	-
Carbon Tetrachloride	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	-
Chlorobenzene	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-
Chloroethane	0.65	<0.74	0.65	<0.74	0.60	<0.74	<0.25-0.54
Chloroform	<0.31	0.78	<0.31	<0.31	<0.31	0.80	<0.25-1.8
Chloromethane	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	-
Cis-1,2-Dichloroethene	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	-
Cis-1,3-Dichloropropene	<0.52	<0.52	3.6	2.0	0.77	<0.52	<0.25-2.6
Cyclohexane	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	-
Dibromochloromethane	<0.92	<0.92	8.1	<0.92	<0.92	<0.92	N/A
Ethyl acetate	1.2	0.79	2.3	0.93	<0.92	<0.66	0.41-2.8
Ethylbenzene	1.4	1.4	1.8	1.5	3.3	1.4	N/A
Freon 11	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	-
Freon 113	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	-
Freon 114	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	-

NOTES:

- Results reported in ug/m3
- N/A = Not Available
- Bold & Shaded= Exceedances of Background Levels
- (7) New York State Department of Health (NYSDOH) Summary of Indoor Levels of VOCs (25th Pctl and 50th Pctl) from Fuel Oil Heated Homes in NYS, 1997-2003 (Revised November 14, 2005)
- Sampling Date: 3/25/2014 (Weather Conditions: Partly Cloudy, 28° F, BP: 30.06 in.)

**TABLE 24 (Cont.)
EPA Method TO-15
Soil Vapor Analytical Results**

Parameter	SV-2	SV-3	SV-4	SV-5	SV-6	OA-1	Background Levels (7)
Freon 12	2.2	2.7	2.5	2.6	2.6	2.8	N/A
Heptane	0.92	0.87	5.6	3.0	1.9	<0.62	1.0-7.6
Hexachloro-1,3-butadiene	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	-
Hexane	<0.54	1.3	9.7	5.8	4.4	0.72	0.63-6.0
Isopropyl alcohol	3.6	3.7	7.5	12	<0.37	<0.37	N/A
m,p Xylene	3.7	2.4	6.5	2.6	2.8	0.79	0.50-4.6
Methyl Butyl Ketone	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	-
Methyl Ethyl Ketone	2.0	<0.90	5.1	<0.90	<0.90	0.63	1.4-7.3
Methyl Isobutyl Ketone	1.0	<1.2	1.4	1.0	1.4	<1.2	<0.25-0.86
Methyl tert-butyl ether	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	-
Methylene chloride	1.4	1.2	3.5	1.8	2.3	0.81	0.31-6.6
o-Xylene	1.3	0.75	1.9	0.79	0.88	<0.66	0.39-3.1
Propylene	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	-
Styrene	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	-
Tetrachloroethylene	1.8	2.1	1.9	<1.0	2.7	0.90	<0.25-1.1
Tetrahydrofuran	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	-
Toluene	3.6	5.1	19	5.0	4.4	2.3	3.5-24.8
Trans-1,2-Dichloroethene	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	-
Trans-1,3-Dichloropropene	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	-
Trichloroethene	<0.82	1.1	0.65	<0.82	<0.82	<0.22	<0.25-0.25
Vinyl acetate	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	-
Vinyl Bromide	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	-
Vinyl chloride	<0.39	<0.39	<0.39	<0.39	<0.39	<0.10	-

NOTES:

- Results reported in ug/m3
- N/A = Not Available.
- Bold & Shaded= Exceedances of Background Levels
- (7) New York State Department of Health (NYSDOH) Summary of Indoor Levels of VOCs (25th Pct and 50th Pct) from Fuel Oil Heated Homes in NYS, 1997-2003 (Revised November 14, 2005)
- Sampling Date: 3/25/2014 (Weather Conditions: Partly Cloudy, 28° F; BP: 30.06 in.)

APPENDICES

APPENDIX A
PHASE I ESA REPORT

ENVIRONMENTAL SITE ASSESSMENT



PROPERTY LOCATED AT:
186-02 JAMAICA AVENUE
QUEENS, NEW YORK

13-671

PREPARED FOR:
SAFE N LOCK SELF STORAGE, LLC
3701 HENRY HUDSON PKWY, SUITE: 4F
BRONX, NEW YORK 10463

OCTOBER 2013

PREPARED BY:
SOIL MECHANICS ENVIRONMENTAL SERVICES
3770 MERRICK ROAD
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1.0 ABSTRACT

The subject property, located at 186-02 Jamaica Avenue, in the Borough of Queens, County of Queens, State of New York, currently consists of a vacant one-story masonry building and asphalt paved surfaces. The property occupies approximately 47,000 square feet and the site building occupies approximately 7,680 square feet.

The property is located within an urban area characterized mostly by residential, retail, commercial, and manufacturing properties.

The subject premises is currently unoccupied.

The property was previously utilized as a lumber yard from at least 1926 through about 1991 followed by occupancy of an auto sales & towing facility from approximately 1992 through 2013. During its use as a lumber yard, the site included several buildings (used for office, saw mill, garage, warehouse, and lumber sheds), lumber piles, coal pocket, and railroad spur. According to our review of historical Sanborn fire insurance maps, the existing building appears to have been built prior to 1926 with significant modifications over the years.

A Phase I Environmental Site Assessment completed at the site has revealed no evidence of recognized environmental conditions (RECs) in connection with the property with the exception of the following:

- The listing of the property as an E DESIGNATION Site.
- The “active” status SPILL/Historical SPILL Site located at 187-11 Jamaica Avenue.
- Historical uses of the property as a lumber yard (and associated historical buildings).
- The neighboring properties to the east and west.
- The potential UST system and buried gasoline tank (depicted on historical Sanborn fire insurance maps).
- The existing and suspect subsurface drainage structures.
- The suspect subgrade structure.

2.0 INTRODUCTION

2.1 Purpose

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify, to the extent feasible, recognized environmental conditions (RECs) associated with the subject property. The term REC means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water on the property. The Phase I ESA was completed in conformance with current American Society for Testing and Materials Standards (ASTM) E 1527 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and United States Environmental Protection Agency (USEPA) "all appropriate inquiry" standards and practices.

2.2 Detailed Scope of Services

Soil Mechanics Environmental Services (SMES) was retained by Safe N Lock Self Storage LLC to perform a Phase I ESA at the subject property (see Section 3.1 for property location and legal description). The Phase I ESA scope of services was outlined in our Proposal No. 2712, dated September 17, 2013. The scope of services was agreed to by the client on September 22, 2013.

2.3 Significant Assumptions

SMES assumes that the information collected during the course of the Phase I ESA process is accurate, complete, and reliable. The information collected was utilized by SMES personnel in making their conclusions, opinions, and recommendations (if provided). Any information not represented in this report, which was otherwise not available to SMES, is therefore not considered in the opinions, conclusions, and recommendations (if provided).

2.4 Limitations and Exceptions

The Phase I ESA was limited to historical research and site reconnaissance to evaluate the existence of any RECs. Consistent with generally accepted protocols, the Phase I ESA did not include sampling or analysis of suspect materials which may have been observed at the target property.

2.5 Special Terms and Conditions

No special terms or conditions were requested by the client in connection with the Phase I ESA. All appropriate inquiry into the prior use(s) of the subject property were made with good commercial practices in order to identify RECs that are representative of existing, past, or potential environmental concerns in connection with the property.

2.6 User Reliance

This Phase I ESA report was prepared for Safe N Lock Self Storage LLC. Reliance on this document is solely provided to this client, its agents, and assignees. Third party reliance is not authorized. No third party shall have the right to rely on SMES's opinions rendered in connection with SMES's services or this report. Any third party usage is at your own risk. SMES assumes no responsibility or liability.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

Address: 186-02 Jamaica Avenue, Hollis, N.Y. 11423.
Borough/County: Borough of Queens, County of Queens.
Current Tax Lot: Block: 10352 and Lot: 108.
Property Size: 147.00 FT X 319.00 FT (Irregular).

Refer to Site/Vicinity Map in Appendix.

3.2 Site and Vicinity General Characteristics

The property is located within an urban area characterized mostly by residential, retail, commercial, and manufacturing properties.

3.3 Current Use of Property

The subject premises is currently unoccupied.

3.4 Description of Structures, Roads, and Other Improvements

The site (147.00 FT X 319.00 FT; irregular) (approximately 47,000 square feet) currently consists of a vacant one-story masonry building (32.00 FT X 240.00 FT) (approximately 7,680 square feet) and asphalt paved surfaces. The property is relatively flat. Chain-link fencing borders most of the subject property. The thoroughfare Jamaica Avenue borders the northern portion (see Site Plan and Site Photographs in Appendix).

Heating/Cooling System(s)

The site building currently utilizes natural gas fired space heating units for heating purposes. It should be noted; however, that the building previously utilized a fuel oil fired heating system. There were no cooling systems identified.

Sewage Disposal

The building is connected to the public sewer system for the disposal of sanitary wastes.

Source of Potable Water

Potable water is provided to the site by the City of New York.

3.5 Current Uses of Adjoining Properties

Visual inspection of adjoining properties revealed the following (see Adjoining Properties Map in Appendix):

North of the Site: Jamaica Avenue, retail/commercial businesses, residential, churches, and gasoline service station.

South of the Site: Long Island Railroad (LIRR).

East of the Site: ABC Supply Co Inc.

West of the Site: Rodless Properties.

4.0 USER PROVIDED INFORMATION

4.1 Title Records

Title records were not provided to SMES by the client and/or representatives of the subject property for review.

4.2 Activity and Use Limitations/Environmental Liens

EDR Inc. (440 Wheelers Farms Road, Milford, CT) completed an Environmental Lien and AUL Search for the target property. The Environmental Lien and AUL search report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls associated with the subject property. According to this report, environmental liens or other activity and use limitations (AULs) were not found for the property (see Environmental Lien and AUL Search in Appendix).

4.3 Specialized Knowledge

The client and/or representatives of the site did not advise SMES of any specialized knowledge of RECs in connection to the subject property.

4.4 Valuation Reduction for Environmental Issues

SMES was not advised of any information that would reduce the value of the target property due to environmental issues.

4.5 Owner, Property Manager, and Occupant Information

Based on information obtained from the New York City Register, the property is currently owned by Ed Dibenedetto Inc. There is no property manager associated with the subject property. The subject premises is currently unoccupied.

4.6 Reason for Performing Phase I Environmental Site Assessment

The reason this Phase I ESA was requested by Safe N Lock Self Storage LLC was to identify, to the extent feasible, RECs associated with the subject property in connection with the potential purchase of the property.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

A review of available federal, state, and local environmental records was completed by EDR, Inc. (440 Wheelers Farms Road, Milford, CT) to assist in identifying RECs in connection with the target property (see EDR Environmental Database Report in Appendix). The standard environmental record sources reviewed and approximate minimum search distances are pursuant to current USEPA Standards and Practices and ASTM Standard Practice for Environmental Site Assessments. The following tables summarize results of the records review search:

<u>Standard Environmental Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
NPL	1.0	No
Proposed NPL	1.0	No
NPL Liens	Property Only	No
Delisted NPL	1.0	No
CERCLIS	0.5	No
CERCLIS-NFRAP	0.5	<u>YES</u>
CORRACTS	1.0	No

RCRA TSDF	0.5	No
RCRA LQG	Property/Adj. Properties	No
RCRA SQG	Property/Adj. Properties	No
RCRA CESQG	Property/Adj. Properties	No
US Eng Controls	Property Only	No
US Inst Controls	Property Only	No
ERNS	Property Only	No
SHWS	1.0	<u>YES</u>
Vapor Reopened	1.0	<u>YES</u>
SWF/LF	0.5	<u>YES</u>
LTANKS	0.5	<u>YES</u>
HIST LTANKS	0.5	<u>YES</u>
Indian LUST	0.5	No
UST	Property/Adj. Properties	No
MOSF UST	Property/Adj. Properties	No
AST	Property/Adj. Properties	<u>YES</u>
CBS AST	Property/Adj. Properties	No
MOSF AST	Property/Adj. Properties	No
MOSF	Property/Adj. Properties	No
CBS	Property/Adj. Properties	No
Indian UST	Property/Adj. Properties	No
State ENG CONTROLS	Property Only	No
State INST CONTROLS	Property Only	No
State RES DECL	Property Only	No
VCP	0.5	No
Indian VCP	0.5	No
ERP	0.5	No
BROWNSFIELDS	0.5	No

<u>Additional Environmental Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
US BROWNSFIELDS	0.5	No
DEBRIS Region 9	1.0	No

ODI	1.0	No
SWTIRE	0.5	No
SWRCY	0.5	<u>YES</u>
Indian ODI	0.5	No
US CDL	0.5	No
DEL SHWS	0.5	No
HIST UST	Property/Adj. Properties	No
HIST AST	Property/Adj. Properties	No
LIENS 2	Property/Adj. Properties	No
LUCIS	Property/Adj. Properties	No
HMIRS	Property/Adj. Properties	No
NY SPILLS	0.125	<u>YES</u>
NY HIST SPILLS	0.125	<u>YES</u>
RCRA Non-Gen	Property/Adj. Properties	<u>YES</u>
DOT OPS	Property Only	No
DOD	Property Only	No
FUDS	Property Only	No
CONSENT	Property Only	No
ROD	Property Only	No
UMTRA	Property Only	No
MINES	Property Only	No
TRIS	Property Only	No
TSCA	Property Only	No
FTTS	Property Only	No
HIST FTTS	Property Only	No
SSTS	Property Only	No
ICIS	Property Only	No
PADS	Property Only	No
MLTS	Property Only	No
RADINFO	Property Only	No
FINDS	Property Only	No
RAATS	Property Only	No
HSWDS	0.5	No

MANIFEST	Property/Adj. Properties	<u>YES</u>
DRY CLEANERS	0.250	<u>YES</u>
NPDES	Property Only	No
AIRS	Property Only	No
E DESIGNATION	Property/Adj. Properties	<u>YES</u>
Indian RESERV	Property Only	No
SCRD DRYCLEANERS	0.250	No
PWS	Property Only	No

<u>EDR Proprietary Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
MANUFACTURED GAS PLANTS	1.0	No
US HIST AUTO STAT	0.250	<u>YES</u>
US HIST CLEANERS	0.250	<u>YES</u>

The target property was listed within the following database. The following information was available:

NY E DESIGNATION Site:

- Lot: 108, Tax Block: 10352, 186-02 Jamaica Avenue, Queens, N.Y. 11423. E-No: E-175; CEQR Number: 05DCP081Q; ULURP Number: 070314ZMQ; Zoning Map No: 14d; Description: Underground Gasoline Storage Tanks Testing Protocol. The E designation provides notice of the presence of an environmental requirement pertaining to potential hazardous material contamination.

The following mapped sites were identified within applicable search distances:

CERC-NFRAP Sites:

1.) J&L Adikes Inc, located ¼ - ½ mile to the west southwest at 182-12 93rd Avenue, Jamaica, N.Y. NPL Status: Not on the NPL. Non NPL Status: NFRAP - Site does not qualify for the NPL based on existing information.

NY SHWS Sites:

1.) West Side Corporation, located ½ - 1 mile to the south southwest at 107-10 180th Street, Jamaica, N.Y. Improper handling of chemicals associated with historical uses of the site has resulted in the disposal of hazardous wastes, primarily PCE, some of which were released or migrated in the groundwater from the property to surrounding areas (including properties to the south and east).

NY VAPOR REOPENED Sites:

1.) West Side Corporation, previously mentioned. Facility Status: Complete (Mitigate).

NY SWF/LF Sites:

1.) Crumb Rubber Tech, located 1/8 – ¼ mile to the east northeast at 187-40 Hollis Avenue, Jamaica, N.Y. Flag: Inactive; Activity Description: Waste tire storage – Dealer; Waste Type: Not reported.

2.) Veronica Auto Salvage Corp D/B/A Veronica Auto Sales, located 1/8 – ¼ mile to the west southwest at 92-18 183rd Street, Jamaica, N.Y. Flag: Inactive; Activity Description: Vehicle Dismantling; Waste Type: Not reported.

LTANK Sites:

A total of 26 LTANK/Historical LTANK Sites were identified within a ½ mile radius. Each of these LTANK/Historical LTANK Sites are listed as “closed” status, which means the spill case was closed because either: a.) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b.) the

case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number).

NY AST Sites:

1.) Rodless Properties, located adjacent and to the west at 184-10 Jamaica Avenue, Hollis, N.Y. Three (3) in-service #2 fuel oil ASTs (one (1) 10,000-gallon steel AST, one (1) 15,000-gallon steel AST, and one (1) 20,000-gallon steel AST) are registered for this facility. These ASTs were installed 09/19/1956.

NY SWRCY Sites:

1.) Royal Waste Services Inc, located 1/8 – ¼ mile to the east northeast at 187-40 Hollis Avenue, Jamaica, N.Y. Activity Description: RHRF - registration; Active: No; Waste Type: Not reported.

2.) Giove Company Inc, located ¼ - ½ mile to the southwest at 180-56 Liberty Avenue, Jamaica, N.Y. Activity Description: RHRF - registration; Active: No; Waste Type: Commingled Paper.

SPILL Sites:

A total of two (2) SPILL/Historical SPILL Sites were identified within a 1/8 mile radius. Of these SPILL/Historical SPILL Sites, one (1) is listed as “active” status, which means the spill case is on-going. The remaining site is listed as “closed” status, which means the spill case was closed because either: a.) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b.) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). Information concerning the one (1) “active” status SPILL/Historical SPILL Site (Spill Number: 0407399) revealed that it is documented as affecting the soil and groundwater. This SPILL Site (187-11 Jamaica Avenue, Brooklyn, N.Y.) is located 0 – 1/8 mile to the northeast.

RCRA NonGen/NLR Sites:

1.) H Verby Co, located adjacent and to the east at 186-14 Jamaica Avenue, Jamaica, N.Y. Classification: Non-Generator; Description: Handler – Non-Generators do not presently generate hazardous waste. In 2002, this facility was listed as a Large Quantity Generator (LQG) Site. Violation Status: No violations found.

NY MANIFEST Sites:

1.) H Verby Co, previously mentioned.

NY DRY CLEANERS Sites:

1.) Ginas Dry Cleaners, located 1/8 – ¼ mile to the northeast at 188-08 Jamaica Ave, Hollis, N.Y. Drop Shop: Not reported; Current Business: Not reported.

US HIST AUTO STAT Sites:

There are 11 US HIST AUTO STAT Sites identified within approximately 1/8 mile radius (see complete listing in Environmental Database Report in Appendix).

US HIST CLEANERS Sites:

There is one (1) US HIST CLEANERS Site identified within approximately 1/8 mile radius (see complete listing in Environmental Database Report in Appendix).

5.2 Physical Setting Source(s)

Topography

Information obtained from the 7.5 minute series, Jamaica, NY, Quadrangle, Topographic Map, published by the US Department of the Interior, Geological Survey, revealed that the site is located approximately 50.0 feet above sea level (see Topographic Map in Appendix).

Groundwater

Information obtained from the Water-Table on Long Island, New York, March-April 1984, prepared by the United States Department of the Interior, Geological Survey, indicated an estimated depth to groundwater in the area of the subject property to be approximately 50.0 feet below existing grade. The property appears to be located in an area of a localized groundwater divide wherein no definitive groundwater flow direction was evident.

5.3 Historical Use Information on the Property

Historical Overview

The property was previously utilized as a lumber yard from at least 1926 through about 1991 followed by occupancy of an auto sales & towing facility from approximately 1992 through 2013. During its use as a lumber yard, the site included several buildings (used for office, saw mill, garage, warehouse, and lumber sheds), lumber piles, coal pocket, and railroad spur. According to our review of historical Sanborn fire insurance maps, the existing building appears to have been built prior to 1926 with significant modifications over the years.

City Directory Abstract

A City Directory Abstract search was conducted by EDR Inc. (440 Wheelers Farms Road, Milford, CT) for the address 186-02 Jamaica Avenue, Hollis, N.Y. The City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant(s) at five (5) year intervals. Business directories including city, cross reference, and telephone directories were reviewed, if available, at approximately five (5) year intervals for the years spanning 1922 through 2012. According to the City Directory Abstract, the address 186-02 Jamaica Avenue, Hollis, N.Y. was occupied by the following (see City Directory Abstract in Appendix):

<u>Year(s)</u>	<u>Use(s)</u>
1928, 1934, 1939, 1945, 1950, 1962, 1967, 1970, 1976, 1983, 1991, 1996, 2000	Address Not Identified in Research Source
2005, 2007	Jamaica Towing Inc
2012	Ken Ben Industries Ltd

Historical Sanborn Fire Insurance Maps

Review of historical Sanborn fire insurance maps (obtained from EDR Inc., 440 Wheelers Farms Road, Milford, CT), dated 1901, 1912, 1926, 1951, 1981, 1982, 1986, 1988-1993, 1995, 1996, 1999, and 2001-2006, revealed the following (see Certified Sanborn Map Report in Appendix):

<u>Year(s)</u>	<u>Description</u>
1901	The target property is not depicted within this map.
1912	The subject premises consisted of vacant land.
1926	The site, which is part of a larger parcel of land occupied by "J.A. Stansbury Inc - Sash & Trim Factory", consisted of a one & two-story building (portions used for offices and saw mill), lumber sheds, lumber piles, coal pocket, and railroad spur. Notably, an engine room, independent electric plant, and sawdust bin are shown within the southern portion of the one & two-story building. Further, a buried gasoline tank is depicted at the northern portion.
1951	The property, which is part of a larger parcel of land occupied by "Jamaica Lumber Co Inc - Sash & Trim Factory", consisted of a one & two-story building (portions used as saw mill), several small one or two-story buildings, lumber sheds, lumber piles, and railroad spur. Notably, a boiler room and sawdust bin are shown at the southern portion of the one & two-story building. Further, a

	buried gasoline tank is depicted at the northern portion.
1981, 1982, 1986, 1988- 1991	The subject property, occupied by "Jamaica Lbr Co - Lumber Yard & Millwork" consisted of the existing one-story building and vacant land. The building is used for office, mill, and warehouse purposes. A railroad spur is shown at the southern portion.
1992, 1993, 1995, 1996, 1999, 2001- 2006	The site, used for "Towing & Auto Sales", consisted of the existing one-story building and vacant land. A railroad spur is shown at the southern portion.

Historical Aerial Photographs

Review of historical aerial photographs (obtained from EDR Inc., 440 Wheelers Farms Road, Milford, CT), dated 1924, 1954, 1966, 1975, 1980, 1984, 1994, 2006, 2009, and 2011, revealed the following (see Aerial Photo Decade Package in Appendix):

<u>Year(s)</u>	<u>Description</u>
1924, 1954	The subject premises consisted of several buildings and the storage of materials associated with a lumber yard.
1966, 1975, 1980, 1984	The property consisted of the present day building and the storage of materials associated with a lumber yard.
1994, 2006, 2009, 2011	The site consisted of the existing building and numerous vehicles.

Historical Topographical Maps

Review of historical topographic maps (obtained from EDR Inc., 440 Wheelers Farms Road, Milford, CT), dated 1900, 1924, 1947, 1957, 1966, 1979, and 1994, revealed the following (see Historical Topographic Map Report in Appendix):

<u>Year(s)</u>	<u>Description</u>
1900, 1924, 1947	There were no significant site features depicted at the property.
1957, 1966, 1979, 1994	The target property is located within a red colored area, which is the colored code for an urban area.

New York City Department of Buildings

Review of records available from the New York City Department of Buildings (NYC.gov) revealed the following pertinent information (see NYC Department of Buildings Information in Appendix):

- Department of Finance Building Classification: G9-Garage/Gas Station.
- In 1992, a change of use from lumber store to auto sales was signed off by the Building Department.
- Certificate of Occupancy No: 400253569, dated 11/17/1993, regarding the permissible use and occupancy of the property for auto sales with no repair services and no preparation of vehicles for delivery.

New York City Property Information System

Review of records available from the New York City Property Information System (NYC.gov) revealed the following pertinent information (see NYC Property Assessment Roll Information in Appendix):

- Owner Name: Ed DiBenedetto Inc.
- Property Address: 186-02 Jamaica Avenue.
- Block: 10352, Lot: 108.
- Building Class: G9-Miscellaneous Garage or Gas Station.
- Lot Size: 147.00 FT X 319.00 FT (Irregular).
- Number of Buildings: 1.
- Building Size: 32.00 FT X 240.00 FT.
- Stories: 1.

5.4 Historical Use Information on Adjoining Properties

Review of the previously discussed historical Sanborn fire insurance maps revealed the following pertaining to historical uses of adjoining properties:

- Land use north of Jamaica Avenue consisted of vacant land in 1912; retail buildings and 186th Street in 1926; retail or manufacturing buildings and 186th Street in 1951; retail or commercial buildings and 186th Street in 1981, 1982, 1986, 1988-1993, 1995, 1996, 1999, and 2001-2006.
- The adjoining property to the south consisted of Long Island Railroad (LIRR) tracks in 1912, 1926, 1951, 1981, 1982, 1986, 1988-1993, 1995, 1996, 1999, and 2001-2006.
- The neighboring property to the east consisted of vacant land in 1912; part of “J.A. Stansbury Inc - Sash & Trim Factory” in 1926; part of “Jamaica Lumber Co, Inc - Sash & Trim Factory” in 1951; present day building occupied by “Building & Roofing Material Storage Warehouse” in 1981, 1982, 1986, 1988-1993, 1995, 1996, 1999, and 2001-2006.
- The adjoining property to the west consisted of vacant land in 1912; part of “J.A. Stansbury Inc - Sash & Trim Factory” in 1926; “filling station” (with three (3) buried gasoline tanks), building used for auto repair, and “J.A. Stansbury” lumber facility in 1951; the present day building used for manufacturing purposes and parking lot in 1981, 1982, 1986, 1988-1993, 1995, 1996, 1999, and 2001-2006.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

The site reconnaissance included a “walk through” visual inspection of all accessible portions of the subject premises on September 25, 2013. The real estate sales person (Scott Plasky of Marcus & Millichap) was present during the site visit.

6.2 General Site Setting

The target property (147.00 FT X 319.00 FT; irregular) (approximately 47,000 square feet) currently consists of a vacant one-story masonry building (32.00 FT X 240.00 FT) (approximately 7,680 square feet) and asphalt paved surfaces (see Site Plan and Site Photographs in Appendix).

6.3 Exterior Observations

Visual inspection of exterior portions of the property revealed the following:

- A natural gas meter and vent pipe were observed outside the northeastern portion of the subject building. Further, a chimney was noted at the northeastern portion of the building.
- One (1) subsurface drainage structure, i.e., drywell; and one (1) suspect subsurface drainage structure, i.e., drywell, were identified at exterior portions of the property.
- A suspect subgrade structure was identified at the northern portion of the subject property.
- Oil-like staining was noted throughout the asphalt paved surfaces at exterior portions.

6.4 Interior Observations

Visual inspection of interior portions of the one-story masonry building revealed the following:

- The subject building was divided into office space, bathrooms, and a former boiler room at the northern portion and open garage space throughout the central and southern portions. Approximately five (5) garage doors provided access to the central and southern portions. Concrete floors were observed throughout the building (some areas were overlain with floor tiles). Numerous natural gas fired space heating units, utility sink (within bathroom), oil-like staining on the concrete floors at many locations, electric powered forklift and associated charging unit, one

(1) unlabeled 55-gallon drum, several 5-gallon containers labeled “Q 16 Racing Fuel”, several unlabeled 5-gallon containers, and miscellaneous office and automobile related items were visually identified throughout the subject building.

6.5 PCBs

There were no electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs visually or physically observed at the property.

6.6 Aboveground Storage Tank(s)(ASTs)

There were no ASTs observed at the property.

6.7 Underground Storage Tank(s)(USTs)

Visual indications, i.e., vent pipe outside the northeastern portion of the building, of a potential UST system was identified at the subject property. Further, a buried gasoline tank is depicted at the north central portion of the site within the 1926 and 1951 Sanborn fire insurance maps.

6.8 Drums

One (1) unlabeled 55-gallon drum, several 5-gallon containers labeled “Q 16 Racing Fuel”, and several unlabeled 5-gallon containers were visually identified throughout the subject building. The aforementioned drums and containers appeared in good condition, with no visible signs of damage or spills.

6.9 Hazardous Substances/Petroleum Products

One (1) unlabeled 55-gallon drum, several 5-gallon containers labeled “Q 16 Racing Fuel”, and several unlabeled 5-gallon containers were visually identified throughout the subject building.

6.10 Drainage Structures (Interior)

There were no drainage structures visually identified throughout the interior portions of the site building.

6.11 Drainage Structures (Exterior)

One (1) subsurface drainage structure, i.e., drywell; and one (1) suspect subsurface drainage structure, i.e., drywell, were identified at exterior portions of the property. These structures appear to be utilized for the collection of stormwater runoff. The final discharge point of these structures was not identified by means of this assessment.

6.12 Water Supply Wells/Groundwater Monitoring Wells

No water supply wells and/or groundwater monitoring wells were visually identified at the property.

6.13 Discolored Areas or Spill Areas

Oil-like staining was observed on the concrete floors at many locations within the site building. There were no discolored areas or spill areas observed at the subject property.

6.14 Stained Soil or Pavement

Oil-like staining was noted throughout the asphalt paved surfaces at exterior portions. There were no visual indications of stained soil at the target property.

6.15 Areas with Stressed Vegetation

No areas with stressed vegetation were visually observed at the subject premises.

6.16 Odors

There were no strong, pungent, or noxious odors physically observed at the property.

6.17 Pools of Liquid

Standing surface water was observed within the asphalt paved surfaces of the property; however, this can be attributed to a recent rainfall. There were no pools of liquids likely to be hazardous substances or petroleum products visually identified at the subject property.

6.18 Medical or Infectious Wastes

No medical or infectious wastes were visually observed at the target property.

6.19 Solid Waste

There were no areas that were apparently filled or graded by non-natural causes (or filled by fill of unknown origin) suggesting trash construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal visually identified at the property.

6.20 Pits, Ponds, or Lagoons

There were no pits, ponds, or lagoons identified on the property. Further, there were no pits, ponds, or lagoons visually identified on adjoining properties.

7.0 INTERVIEWS

Interviews with personnel knowledgeable with the target property were completed as part of this Phase I Environmental Site Assessment process. The information gathered from these interviews is included throughout this report.

8.0 **FINDINGS**

A Phase I Environmental Site Assessment (ESA) was conducted by Soil Mechanics Environmental Services (SMES) at the property located at 186-02 Jamaica Avenue, in the Borough of Queens, County of Queens, State of New York for Safe N Lock Self Storage LLC. The Phase I ESA was completed in conformance with current ASTM E 1527 and United States Environmental Protection Agency (USEPA) “all appropriate inquiry” standards and practices.

The target property (147.00 FT X 319.00 FT; irregular) (approximately 47,000 square feet) currently consists of a vacant one-story masonry building (32.00 FT X 240.00 FT) (approximately 7,680 square feet) and asphalt paved surfaces.

The site building currently utilizes natural gas fired space heating units for heating purposes. It should be noted, however, that the building previously utilized a fuel oil fired heating system. The building is connected to the public sewer system for the disposal of sanitary wastes. Potable water is provided to the site by the City of New York.

The property is located within an urban area characterized mostly by residential, retail, commercial, and manufacturing properties.

The subject premises is currently unoccupied.

Review of the standard environmental record sources revealed that the property was listed as an E DESIGNATION Site (E-No: E-175; CEQR Number: 05DCP081Q; ULURP Number: 070314ZMQ; Zoning Map: 14d; Description: Underground Gasoline Storage Tanks Testing Protocol). The E designation provides notice of the presence of an environmental requirement pertaining to potential hazardous materials contamination. The following mapped sites were identified within applicable search distances:

- J&L Adkins Inc, a CERC-NFRAP Site, was identified $\frac{1}{4}$ - $\frac{1}{2}$ mile to the west southwest.
- West Side Corporation, a NY SHWS Site and NY VAPOR REOPENED Site, was identified $\frac{1}{2}$ - 1 mile to the south southwest.

- Crumb Rubber Tech, a NY SWF/LF Site, was identified 1/8 – ¼ mile to the east northeast.
- Veronica Auto Salvage Corp D/B/A Veronica Auto Sales, a NY SWF/LF Site, was identified 1/8 – ¼ mile to the west southwest.
- A total of 26 LTANK/Historical LTANK Sites were identified within the applicable search distance. Each of these sites is listed as “closed” status.
- Rodless Properties, an AST Site, was identified adjacent and to the west. Three (3) in-service #2 fuel oil ASTs (one (1) 10,000-gallon steel AST, one (1) 15,000-gallon steel AST, and one (1) 20,000-gallon steel AST) are registered for this facility.
- Royal Waste Services Inc, a NY SWRCY Site, was identified 1/8 – ¼ mile to the east northeast.
- Giove Company Inc, a NY SWRCY Site, was identified ¼ - ½ mile to the southwest.
- A total of two (2) SPILL/Historical SPILL Sites were identified within the applicable search distance. Of these SPILL/Historical SPILL Sites, one (1) is listed as “active” status and the remaining are listed as “closed” status. Information concerning the “active” status SPILL/Historical SPILL Site (Spill Number: 0407399) revealed that it is documented as affecting the soil and groundwater. This SPILL Site (187-11 Jamaica Avenue, Brooklyn, N.Y.) is located 0 – 1/8 mile to the northeast.
- H Verby Co, a RCRA NonGen/NLR Site and NY MANIFEST Site, was identified adjacent and to the east. No violations were found in regard to this site.
- A total of one (1) NY DRY CLEANERS Site was identified within the applicable search distance.
- A total of 11 US HIST AUTO STAT Sites and one (1) US HIST CLEANERS Site were identified within approximately 1/8 mile radius.

The property was previously utilized as a lumber yard from at least 1926 through about 1991 followed by occupancy of an auto sales & towing facility from approximately 1992 through 2013. During its use as a lumber yard, the site included several buildings (used for office, saw mill, garage, warehouse, and lumber sheds), lumber piles, coal pocket, and railroad spur. According to our review of historical Sanborn fire insurance maps, the existing building appears to have been built prior to 1926 with significant modifications over the years.

Historical uses of neighboring properties include retail, commercial, and manufacturing to the north; LIRR to the south; part of sash & trim factory and building & roofing materials storage warehouse to the east; and part of sash & trim factory, filling station, auto repair, part of lumber yard, and existing manufacturing facility to the west.

Visual inspection of the subject property and/or information gathered from the records review revealed the following:

- Visual indications, i.e., vent pipe outside the northeastern portion of the building, of a potential UST system was identified at the subject property. Further, a buried gasoline tank is depicted at the north central portion of the site within the 1926 and 1951 Sanborn fire insurance maps.
- One (1) unlabeled 55-gallon drum, several 5-gallon containers labeled "Q 16 Racing Fuel", and several unlabeled 5-gallon containers were visually identified throughout the subject building. The aforementioned drums and containers appeared in good condition, with no visible signs of damage or spills.
- One (1) subsurface drainage structure, i.e., drywell; and one (1) suspect subsurface drainage structure, i.e., drywell were identified at exterior portions of the property. These structures appear to be utilized for the collection of stormwater runoff. The final discharge point of these structures was not identified by means of this assessment.
- A suspect subgrade structure was identified at the northern portion of the subject property.

- Oil-like staining was observed on the concrete floors at many locations within the site building.
- Oil-like staining was noted throughout the asphalt paved surfaces at exterior portions.
- Standing surface water was observed within the asphalt paved areas of the property; however, this can be attributed to a recent rainfall.

9.0 OPINIONS

- The listing of the property as an E DESIGNATION Site regarding the presence of an environmental requirement pertaining to potential hazardous material contamination represents a REC.
- Based on currently available information and their relative distances away, the J&L Adkins Inc Site (CERC-NFRAP Site), West Side Corporation Site (NY SHWS and NY VAPOR REOPENED Site), Crumb Rubber Tech Site (NY SWF/LF Site), Veronica Auto Salvage Site (NY SWF/LF Site), Royal Waste Services Inc (NY SWRCY Site), and Giove Company Inc Site (NY SWRCY Site) do not appear to be representative of RECs.
- Excluding the “active” status SPILL/Historical SPILL Site located at 187-11 Jamaica Avenue, based on the resource affected, “closed” status, and/or distance away, each of the LTANK/Historical LTANK Sites and SPILL/Historical SPILL Sites identified within applicable search distances are not representative of RECs. Due to the “active” status, its close proximity, and since the groundwater has been adversely impacted, the “active” status SPILL/Historical SPILL Site located at 187-11 Jamaica Avenue is representative of a REC.
- There were no LTANK/Historical LTANK Sites or SPILL/Historical SPILL Sites identified at the Rodless Properties Site (AST Site). Accordingly, the ASTs located at this property are not expected to be representative of RECs.

- Based on their relative distances away, the NY DRY CLEANER Site and US HIST CLEANERS Site located within applicable search distances do not appear to be representative of RECs.
- Excluding the site located at 187-11 Jamaica Avenue, there were no “active” status LTANK/Historical LTANK Sites or SPILL/Historical SPILL Sites identified at the nearby US HIST AUTO Sites. Based on this information, the US HIST AUTO Sites do not appear to be representative of RECs.
- Historical uses of the property as a lumber yard (and associated historical buildings) are representative of a REC.
- Due to their historical uses, i.e., filling station, auto repair, part of lumber yard, the neighboring properties to the east and west are representative of RECs.
- The potential UST system and buried gasoline tank (depicted on historical Sanborn fire insurance maps) are representative of RECs.
- Based on visual observations, the unlabeled 55-gallon drum, 5-gallon containers labeled “Q 16 Racing Fuel”, and unlabeled 5-gallon containers located within the subject building are not representative of RECs.
- Due to historical uses of the property, the existing and suspect subsurface drainage structures are representative of RECs. Similarly, the suspect subgrade structure is representative of a REC.
- The oil-like staining observed at interior and exterior locations of the property appeared minor in nature and not representative of an environmental concern. Based on visual observations, the identified oil-like staining is not representative of a REC.

10.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of current ASTM Practice E 1527 and United States Environmental Protection Agency (USEPA) "all appropriate inquiry" standards and practices at 186-02 Jamaica Avenue, in the Borough of Queens, County of Queens, State of New York, the property. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the property with the exception of the following:

- The listing of the property as an E DESIGNATION Site.
- The "active" status SPILL/Historical SPILL Site located at 187-11 Jamaica Avenue.
- Historical uses of the property as a lumber yard (and associated historical buildings).
- The neighboring properties to the east and west.
- The potential UST system and buried gasoline tank (depicted on historical Sanborn fire insurance maps).
- The existing and suspect subsurface drainage structures.
- The suspect subgrade structure.

11.0 SIGNATURE(S)


Daren Murphy, CES
Environmental Scientist


Robert J. Cardinale, M.S., C.P.G., P.G.
Director of Environmental Services


Carl Vernick, P.E.
President

We declare that to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Proposed Rules Section 312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the “all appropriate inquiries” in conformance with the standards and practices set forth in Proposed Rules 40 CFR Part 312.

12.0 DISCLAIMER

The findings, opinions, and conclusions presented in this report are based on information obtained within the scope of this investigation. The opinions and conclusions represent our best judgment using the information presently available.

APPENDIX

SITE PHOTOGRAPHS



VIEW OF SITE ALONG JAMAICA AVENUE



VIEW OF SITE ALONG JAMAICA AVENUE



VIEW OF REAR OF SUBJECT BUILDING



VIEW OF SUBJECT BUILDING AND ASPHALT SURFACES



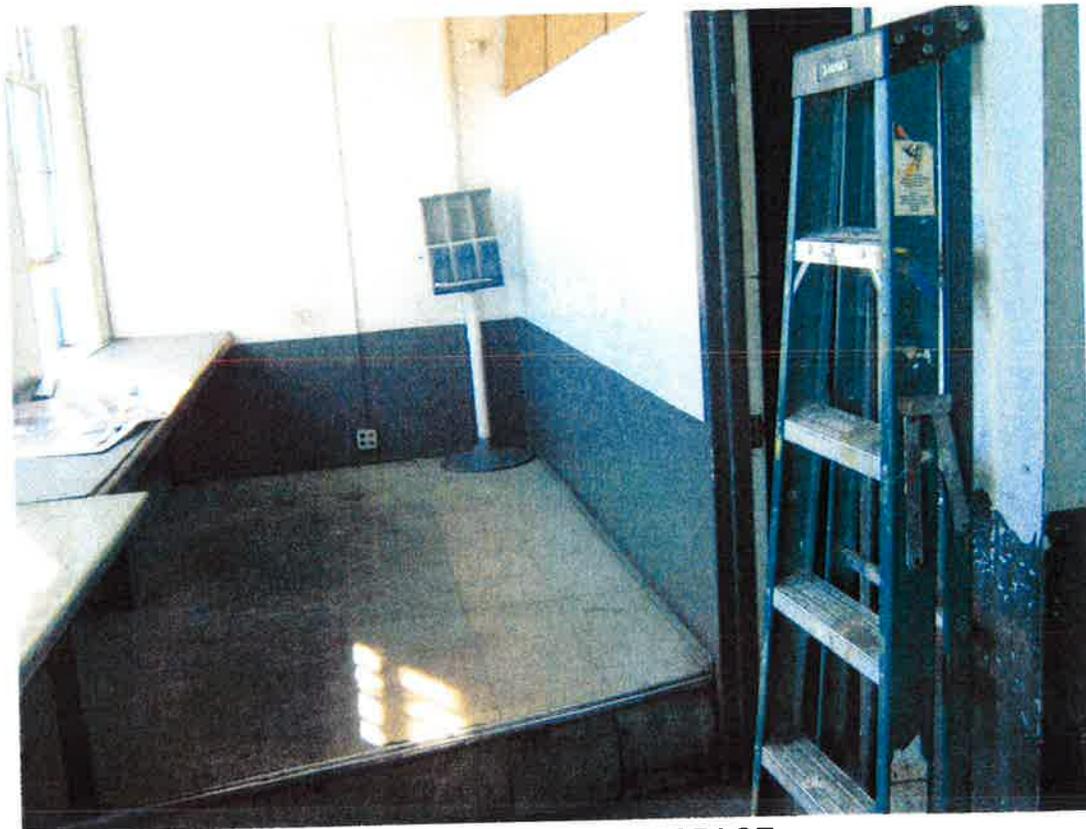
VIEW OF SUBJECT BUILDING AND ASPHALT SURFACES



VIEW OF SUBJECT BUILDING AND ASPHALT SURFACES



VIEW OF OFFICE SPACE



VIEW OF OFFICE SPACE



VIEW OF BATHROOM WITH UTILITY SINK



VIEW OF OPEN GARAGE SPACE



VIEW OF OPEN GARAGE SPACE



VIEW OF OPEN GARAGE SPACE



VIEW OF OPEN GARAGE SPACE



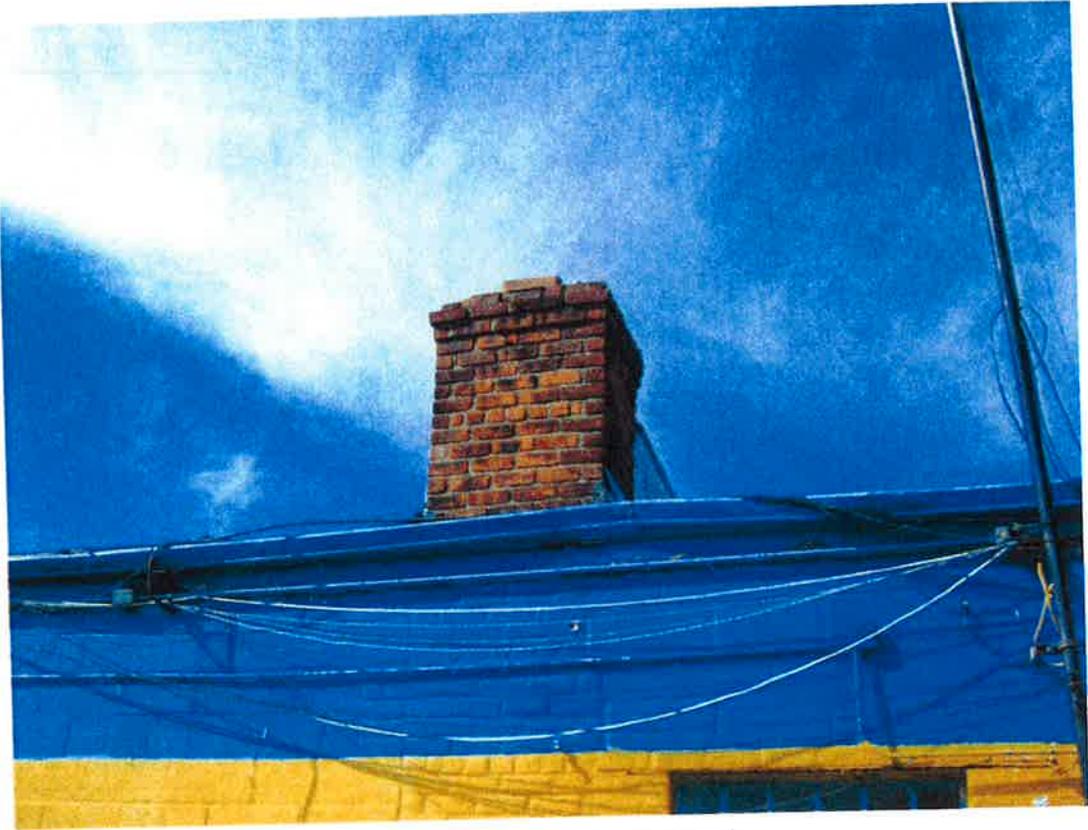
VIEW OF OPEN GARAGE SPACE



VIEW OF NATURAL GAS METER



VIEW OF VENT PIPE



VIEW OF CHIMNEY



VIEW OF SUBSURFACE DRAINAGE STRUCTURE



VIEW OF SUSPECT SUBSURFACE DRAINAGE STRUCTURE



VIEW OF SUSPECT SUBGRADE STRUCTURE



VIEW OF UNLABELED 55-GALLON DRUM



VIEW OF 5-GALLON CONTAINERS OF RACING FUEL



VIEW OF 5-GALLON CONTAINERS OF RACING FUEL



VIEW OF UNLABELED 5-GALLON CONTAINERS



VIEW OF TYPICAL OIL-LIKE STAINING ON CONCRETE FLOORS



VIEW OF TYPICAL OIL-LIKE STAINING ON CONCRETE FLOORS

SITE/VICINITY MAP

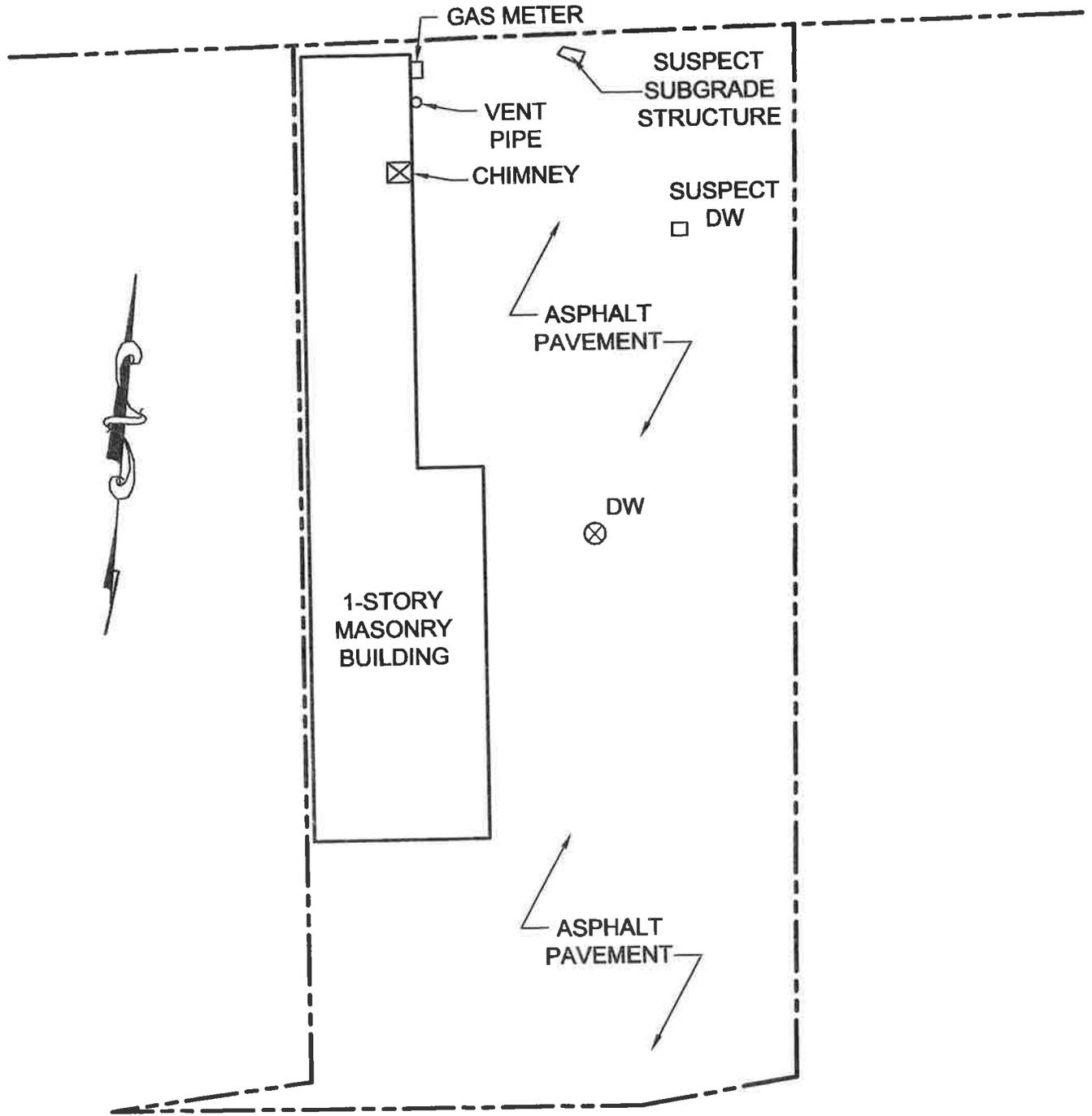


SUBJECT PROPERTY

<p><i>SOIL MECHANICS ENVIRONMENTAL SERVICES</i></p>	<p><i>TITLE:</i> SITE/VICINITY MAP QUEENS, N.Y.</p>	<p>↑</p>
<p><i>3770 MERRICK ROAD SEAFORD, NEW YORK 11783 PH (516) 221-7500 FAX (516) 679-1900</i></p>	<p><i>DATE:</i> 10/10/2013</p>	<p>N</p>
	<p><i>JOB #:</i> 13-671</p>	

SITE PLAN

JAMAICA AVENUE



**SOIL MECHANICS
ENVIRONMENTAL SERVICES**

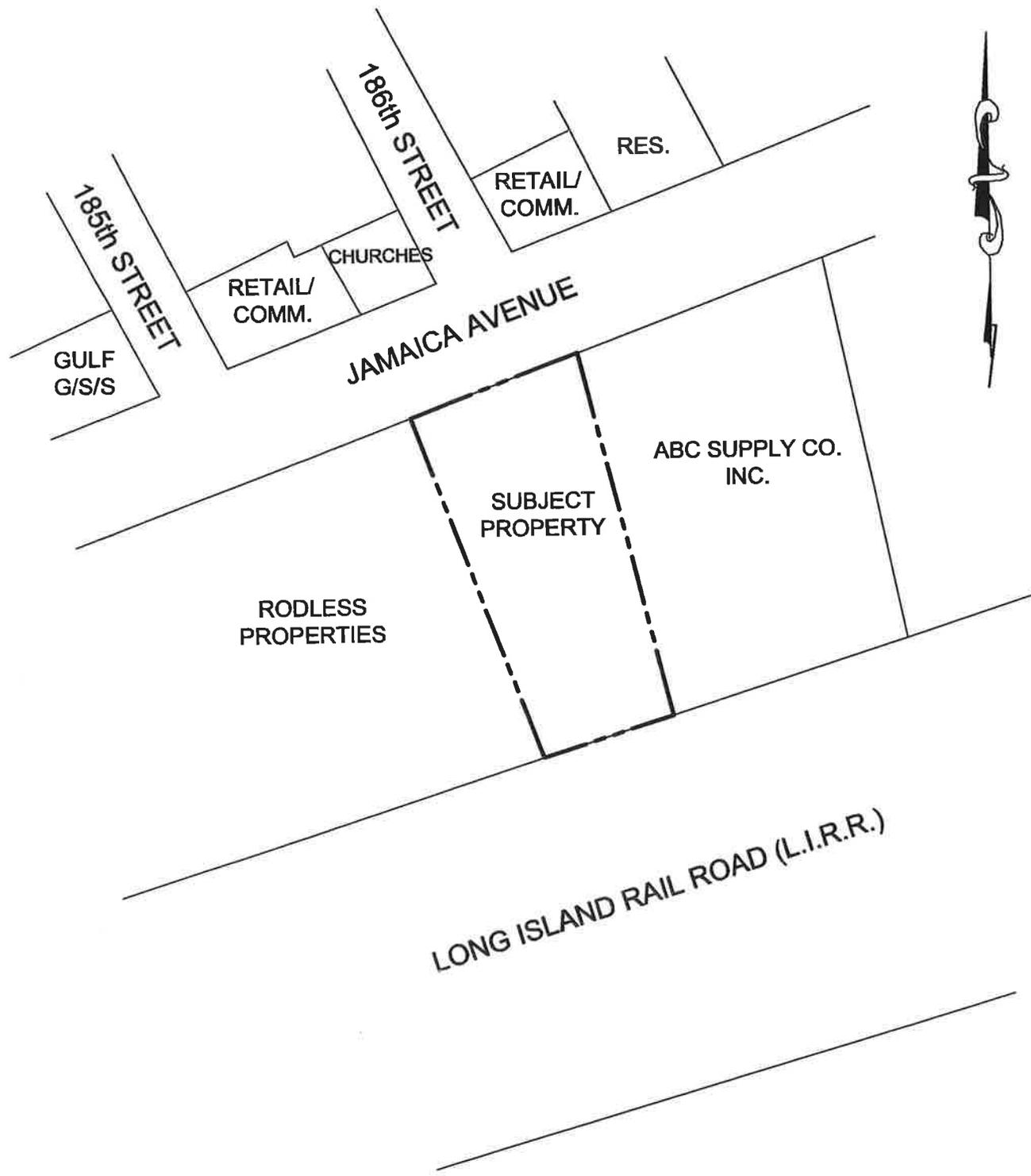
3770 MERRICK ROAD - SEAFORD, L I, NEW YORK - (516) 221-7500

SITE PLAN

QUEENS, NEW YORK

SCALE:	N.T.S.	DATE:	OCTOBER 9, 2013	JOB NO.	13S671
		REVISED:	JMR		

ADJACENT PROPERTIES MAP



**SOIL MECHANICS
ENVIRONMENTAL SERVICES**

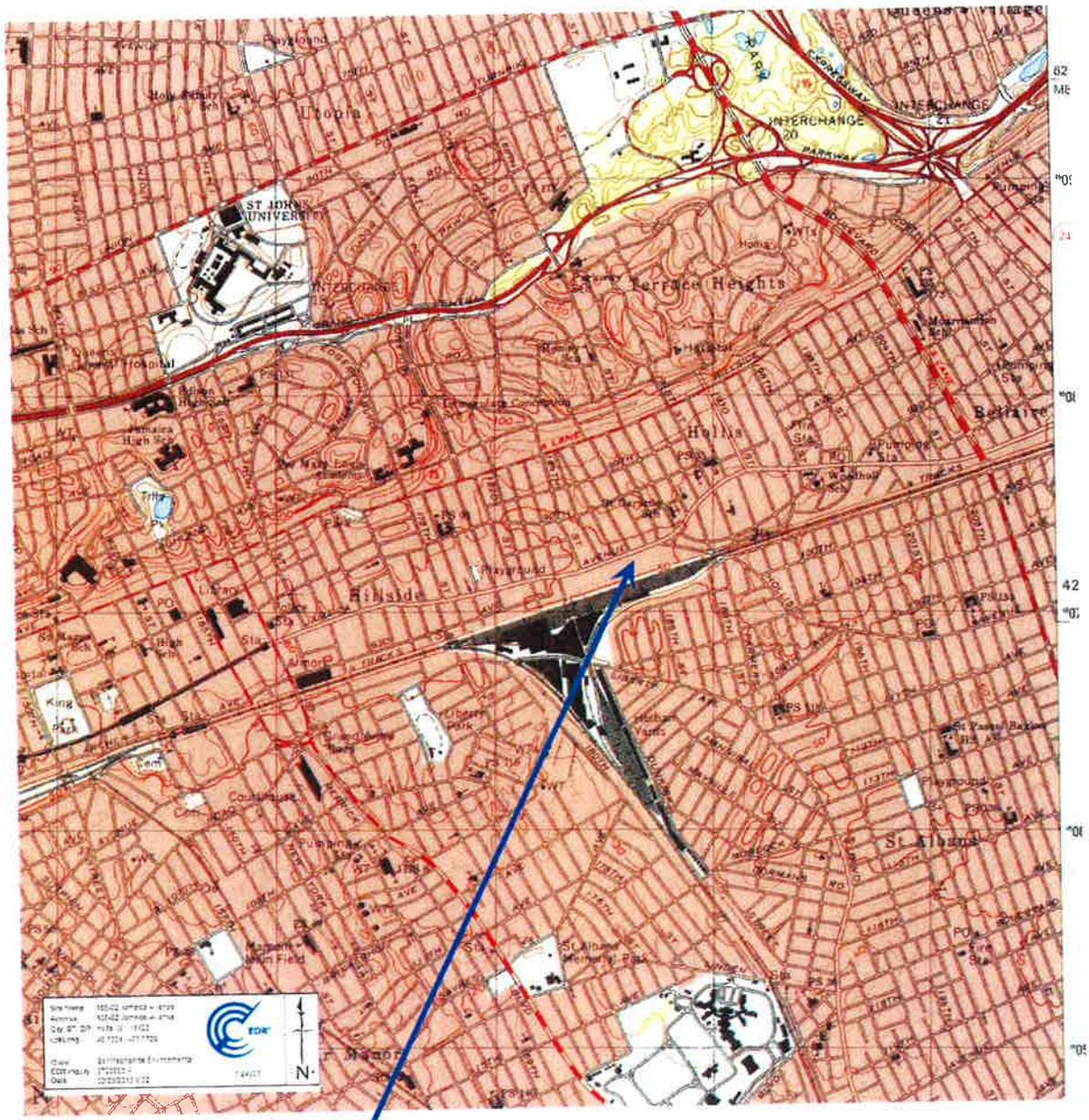
3770 MERRICK ROAD - SEAFORD, L I, NEW YORK - (516) 221-7500

ADJACENT PROPERTIES MAP

QUEENS, NEW YORK

SCALE:	N.T.S.	DATE:	SEPTEMBER 27, 2013	JOB NO.	13S671
		REVISED:	JMR		

TOPOGRAPHIC MAP



SUBJECT PROPERTY

<p>SOIL MECHANICS ENVIRONMENTAL SERVICES</p>	<p>TITLE: TOPOGRAPHIC MAP QUEENS, N.Y.</p>	<p>↑</p>
<p>3770 MERRICK ROAD SEAFORD, NEW YORK 11783 PH (516) 221-7500 FAX (516) 679-1900</p>	<p>DATE: 10/10/2013</p>	<p>N</p>
<p>JOB #: 13-671</p>		

ENVIRONMENTAL LIEN & AUL SEARCH

186-02 Jamaica Avenue
186-02 Jamaica Avenue
Hollis, NY 11423

Inquiry Number: 3739863.7
September 27, 2013

EDR Environmental Lien and AUL Search

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

186-02 Jamaica Avenue
186-02 Jamaica Avenue
Hollis, NY 11423

RESEARCH SOURCE

Source 1:

New York City Register
Queens, NY

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Correction Deed
Title is vested in:	Ed Di Benedetto Inc
Title received from:	Jamaica Lumber Co Inc, Liquidating
Deed Dated	12/30/1985
Deed Recorded:	12/10/1986
Book:	2249
Page:	2193
Volume:	NA
Instrument:	NA
Docket:	NA
Land Record Comments:	See Exhibit
Miscellaneous Comments:	NA
Legal Description:	See Exhibit
Legal Current Owner:	Ed Di Benedetto Inc
Parcel # / Property Identifier:	4-10352-108
Comments:	See Exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found Not Found

Deed Exhibit 1

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 30th day of December, nineteen hundred and eighty-five
BETWEEN JAMAICA LUMBER CO., INC., LIQUIDATING with offices
at 186-02 Jamaica Avenue, Hollis, NY

CORRECTION
DEED

party of the first part, and

ED DI BENEDETTO, INC., with offices at 205-11
Northern Blvd., Bayside, NY

party of the second part.

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Queens, City and State of New York, bounded and described as follows:

BLOCK 1033
LOT 108
Queens

BEGINNING at a point on the southerly side of Jamaica Avenue (formerly Jamaica and Hempstead Plank Distant 1076 feet easterly from the corner formed by the intersection of the southerly side of Jamaica Avenue with the easterly side of Hamilton Street (183rd Street);

Running thence easterly along the southerly side of Jamaica Avenue 32.01 feet to a point;

Thence easterly still along said side of Jamaica Avenue 71.90 feet to a point

Thence easterly still along said side of Jamaica Avenue 158.64 feet to a point

Thence south 4 degrees 40 minutes east 284.63 feet to a point;

Running thence south 57 degrees, 13 minutes, 50 seconds west 109.33 feet to a point

Thence south 71 degrees, 46 minutes, 15 seconds West 46.59 feet;

Thence South 81 degrees 14 minutes West 156.05 feet to a point

Running Thence north 71 degrees, 46 minutes, 16 seconds east 60.82 feet to a point

Running thence north 8 degrees 46 minutes west 313.76 feet to the southerly side of Jamaica Avenue, at the point or place of Beginning

Premises known as and by street number 186-02 Jamaica Avenue, Hollis, NY

Excepting therefrom so much of the described premises conveyed to H. Verby Holding Co. Inc. by deed dated 10/30/58 recorded 11/5/58 in Liber 7105

Page 550

Grantor being the same which acquired title under deed dated 9/1/60 recorded 1/18/61 in Liber 7302 page 497.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

This Deed is given to correct the name of the Grantee in a Deed dated December 30, 1985 and recorded March 17, 1986 in Liber 2042, Page 1398.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

[Handwritten signatures]

JAMAICA LUMBER CO., LIQUIDATING

BY: *[Signature]*
EDWIN F. HOFFMAN, Secretary

REC 2248-2101

STATE OF NEW YORK, COUNTY OF NASSAU
On the _____ day of _____, 19____, before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

STATE OF NEW YORK, COUNTY OF _____
On the _____ day of _____, 19____, before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

STATE OF NEW YORK, COUNTY OF NASSAU
On the 21st day of July, 1986, before me personally came EDWIN P. HOFFMAN to me known, who, being by me duly sworn, did depose and say that he resides at No. 124 Tanners Pond Rd., Garden City, NY that he is the ~~President~~ Secretary of Jamaica Lumber Co. Inc., the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to this instrument is such corporate seal; that he was so affirmed by order of the board of directors of said corporation, and that he signed his name thereto by like order.

that he knows _____ to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

MATTHEW A. TEDONE
Notary Public, State of New York
No. 30-4917323
Qualified in Nassau County
Commission Expires March 30, 1987

FAIRWAY ABSTRACT CORP.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS
TITLE NO. 266-89-115

JAMAICA LUMBER CO., INC., LIQUIDATING
TO
ED DI BENEDETTO, INC.

STATE OF NEW YORK, COUNTY OF _____
On the _____ day of _____, 19____, before me personally came _____ the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No. _____

that he knows _____ to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

OFFICE OF CITY REGISTER
Queens County
RECORDED
Witness my hand
and official seal
J. A. Bobrow
CITY REGISTER

SECTION _____
BLOCK 10352
LOT 108
COUNTY OR TOWN Queens

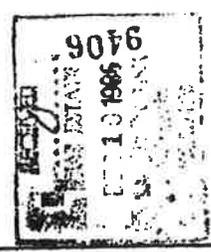
Recorded at Request of COMMONWEALTH LAND
TITLE INSURANCE COMPANY

RETURN BY MAIL TO:



NICOLOSI & SCIACCA, ESQS.
213-38 40th Avenue
Bayside, NY 11361
Zip No.

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE	12-10-86	6.02	6.02	10.00	REC. FEE	_____
	12-10-86	6.02	6.02	10.00	SST \$	_____
	12-10-86	6.02	6.02	10.00	RPT #	25054
	12-10-86	6.02	6.02	10.00		



CITY DIRECTORY ABSTRACT

186-02 Jamaica Avenue
186-02 Jamaica Avenue
Hollis, NY 11423

Inquiry Number: 3739863.6
September 26, 2013

The EDR-City Directory Abstract



440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2012	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2007	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2005	Hill-Donnelly Information Services	X	X	X	-
2000	Cole Information Services	-	X	X	-
1996	NYNEX	-	X	X	-
1991	NYNEX Information Resource Company	-	-	-	-
1983	New York Telephone	-	X	X	-
1976	New York Telephone	-	X	X	-
1970	New York Telephone	-	-	-	-
1967	New York Telephone	-	-	-	-
1962	New York Telephone Directory	-	-	-	-
1950	New York Telephone	-	X	X	-
1945	New York Telephone	-	-	-	-
1939	New York Telephone Company	-	X	X	-
1934	R. L. Polk & Co.	-	X	X	-
1922	The Metropolitan Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

186-02 Jamaica Avenue
Hollis, NY 11423

FINDINGS DETAIL

Target Property research detail.

JAMAICA AVE

18602 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2012	KEN BEN INDUSTRIES LTD	Cole Information Services
2007	JAMAICA TOWING INC	Cole Information Services
2005	Jamaica Towing Inc i s	Hill-Donnelly Information Services

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

186TH ST

115 186TH ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	residence 1 business	Cole Information Services

88211 186TH ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Sabogal Gonzalo A	Hill-Donnelly Information Services

90 186TH ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1996	RAMKARRAN Ramcumar	NYNEX
	RAMNARAIN Dindial	NYNEX
	RAMPRASAD Sugdai	NYNEX
	ROMAN Aide	NYNEX
	ROQUE Martha	NYNEX
	SALAMALAY Ralph	NYNEX
	SALAMALLAY R	NYNEX
	SARJU H	NYNEX
	SHIVMANGAL Hansraj	NYNEX
	SINGH David	NYNEX
	SINGH Ramsaran	NYNEX
	SINGH Ramsarran Rev	NYNEX
	SINGH Sandra	NYNEX
	STINETTE Meliki	NYNEX
	TRINIDAD Tania	NYNEX
	VELEZKIANEZ Jose	NYNEX
	MANGRA Kamenry	NYNEX
	QURESHI Naila	NYNEX
	QURESHI Fazil	NYNEX
	PEREZ Arcadio	NYNEX
	NIONEZ Alfredo	NYNEX
	MOHAMED Nizam	NYNEX
	MATTHEW Railton	NYNEX

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1996	MATHISON D A	NYNEX
	MAHABIR Kamaldai	NYNEX
	LALLU Rookmin	NYNEX
	LACKRAJ Devanand	NYNEX
	IMRAN Mohamed	NYNEX
	HAGANS Martha	NYNEX
	HACK Zaimoon Nesha	NYNEX
	DE LA PENA Evaranto	NYNEX
	DE LAROSA Eustaca	NYNEX
	BAICHO T	NYNEX
	RICO Edward R	NYNEX
	RICKETTS B	NYNEX
	MANGRA Indrawtie	NYNEX
1939	GUENDOO Linnel	NYNEX
	Von Elm C Mrs	New York Telephone Company
	Zimmerman Louis F	New York Telephone Company
	Vernon R	New York Telephone Company

JAMAICA AVE

18601 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	No Current Listing	Hill-Donnelly Information Services

18603 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2012	TRIPLE B PRINTING CO	Cole Information Services
2007	TRIPLE B PRINTING CO	Cole Information Services
2005	Davis B yv	Hill-Donnelly Information Services
	Villa Carios v	Hill-Donnelly Information Services
	Triple B Printing Co	Hill-Donnelly Information Services
	h Bailey Deena V	Hill-Donnelly Information Services

18605 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2007	SHORE AUTO SCHOOL INC	Cole Information Services
2005	h Oyola Oaga AV	Hill-Donnelly Information Services
	Persaud Deoram V	Hill-Donnelly Information Services
	h Benitez Berta AV	Hill-Donnelly Information Services
	Shore Auto School Inc	Hill-Donnelly Information Services

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Delcid Julian v	Hill-Donnelly Information Services
18607 JAMAICA AVE		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2012	MADISON INTERCOM INC	Cole Information Services
2007	MADISON INTERCOM INC	Cole Information Services
2005	Sanchez Jamira V	Hill-Donnelly Information Services
	Madison Intercom	Hill-Donnelly Information Services
18609 JAMAICA AVE		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2007	JZANUS HOME CARE INC	Cole Information Services
2005	On Site Carpet I	Hill-Donnelly Information Services
18614 JAMAICA AVE		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2012	H VERBY COMPANY	Cole Information Services
	VERBY H COMPANY	Cole Information Services
2005	Bradco Supply Corp 2 R	Hill-Donnelly Information Services
	H Verby Co Inc Absc Member	Hill-Donnelly Information Services
18615 JAMAICA AVE		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Midland Auto Mall Customer Svc	Hill-Donnelly Information Services
187-04 JAMAICA AVE		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	IGOE BROS WIRE NAILS	New York Telephone
187-06 JAMAICA AVE		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	DUFFY J P CO INC BLDG MATRL JAMAICA YARD	New York Telephone
187-08 JAMAICA AVE		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	JACKS SVCE STA	New York Telephone
187-10 JAMAICA AVE		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	H & H SASH & DOOR CO INC	New York Telephone

FINDINGS

187-17 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	LEN-FRANK SVCE STA INC	New York Telephone

18704 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1939	Igoe Bros wire nails	New York Telephone Company
1934	Igoe Jos br mgr Igee Bros	R. L. Polk & Co.
	Jos Igoe br ingr wire mfrs	R. L. Polk & Co.

18706 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	Farrell Leo br mgr J P Duffy Co	R. L. Polk & Co.

18708 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1983	GUS SVCE STA	New York Telephone

18710 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1983	Industrial Plywd Co Inc	New York Telephone
	Paradise Prods Corp	New York Telephone
	No Charge To Calling Party Ask Operator For Enterprise 4164	New York Telephone
1976	No Charge To Calling Party Ask Operator For Enterprise 4164	New York Telephone
	Industrial Plywd Co Inc	New York Telephone
1939	H & H Sash & Door Co	New York Telephone Company
1934	H & H Sash & Door Co Inc Herbert C Kuster pres v pres Harry Goldstein sec treas	R. L. Polk & Co.

18716 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1939	Holliswood Mkt	New York Telephone Company

18717 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1983	Len Frank Svce Sta Inc	New York Telephone
1939	Len Frank Svce Sta Inc	New York Telephone Company
1934	br	R. L. Polk & Co.

FINDINGS

18730 JAMAICA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1983	Rubber Recycling Systems Of N Y Inc	New York Telephone

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

186-02 Jamaica Avenue

Address Not Identified in Research Source

2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched

115 186TH ST

18601 JAMAICA AVE

18603 JAMAICA AVE

18603 JAMAICA AVE

18605 JAMAICA AVE

18605 JAMAICA AVE

18607 JAMAICA AVE

18607 JAMAICA AVE

18609 JAMAICA AVE

18609 JAMAICA AVE

18614 JAMAICA AVE

18614 JAMAICA AVE

18615 JAMAICA AVE

187-04 JAMAICA AVE

187-06 JAMAICA AVE

187-08 JAMAICA AVE

187-10 JAMAICA AVE

Address Not Identified in Research Source

2012, 2007, 2005, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2007, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1945, 1939, 1934, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1945, 1939, 1934, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1945, 1939, 1934, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1945, 1939, 1934, 1922

FINDINGS

Address Researched

187-17 JAMAICA AVE

18704 JAMAICA AVE

18706 JAMAICA AVE

18708 JAMAICA AVE

18710 JAMAICA AVE

18716 JAMAICA AVE

18717 JAMAICA AVE

18730 JAMAICA AVE

88211 186TH ST

90 186TH ST

Address Not Identified in Research Source

2012, 2007, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1945, 1939, 1934, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1970, 1967, 1962, 1950, 1945, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1934, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1976, 1970, 1967, 1962, 1950, 1945, 1922

2012, 2007, 2005, 2000, 1996, 1991, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2000, 1996, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1939, 1934, 1922

2012, 2007, 2005, 2000, 1991, 1983, 1976, 1970, 1967, 1962, 1950, 1945, 1934, 1922

**CERTIFIED SANBORN MAP
REPORT**



186-02 Jamaica Avenue
186-02 Jamaica Avenue
Hollis, NY 11423

Inquiry Number: 3739863.3
September 26, 2013



Certified Sanborn® Map Report

Certified Sanborn® Map Report

9/26/13

Site Name:

186-02 Jamaica Avenue
186-02 Jamaica Avenue
Hollis, NY 11423

Client Name:

Soil Mechanics Environmental
3770 Merrick Road
Seaford, NY 11783



Environmental Data Resources Inc

EDR Inquiry # 3739863.3

Contact: Daren Murphy

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Certified Sanborn Results:

Site Name: 186-02 Jamaica Avenue
Address: 186-02 Jamaica Avenue
City, State, Zip: Hollis, NY 11423
Cross Street:
P.O. # NA
Project: 13-671
Certification # 47B1-4D06-AAB3



Sanborn® Library search results
Certification # 47B1-4D06-AAB3

Maps Provided:

2006	1999	1990	1951
2005	1996	1989	1926
2004	1995	1988	1912
2003	1993	1986	1901
2002	1992	1982	
2001	1991	1981	

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



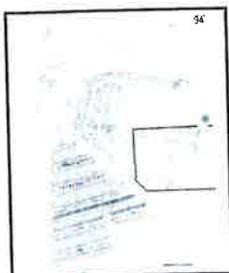
2006 Source Sheets



Volume 7, Sheet 7



Volume 7, Sheet 8



Volume 7, Sheet 94

2005 Source Sheets



Volume 7, Sheet 7

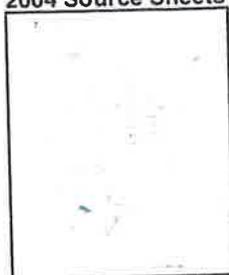


Volume 7, Sheet 8



Volume 7, Sheet 94

2004 Source Sheets



Volume 7, Sheet 7



Volume 7, Sheet 8



Volume 7, Sheet 94

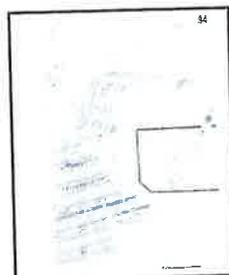
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Volume 7, Sheet 8



Volume 7, Sheet 94

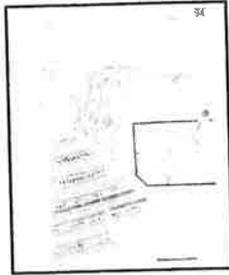
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Volume 7, Sheet 8



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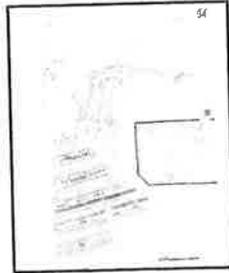
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Volume 7, Sheet 94

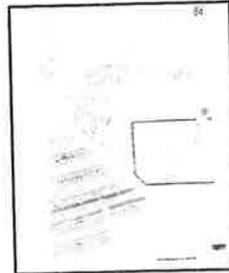
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Volume 7, Sheet 8



Volume 7, Sheet 94

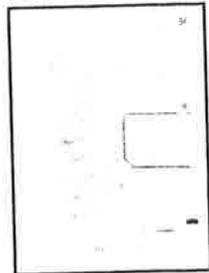
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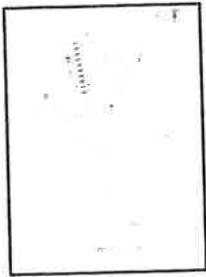


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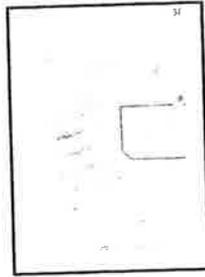
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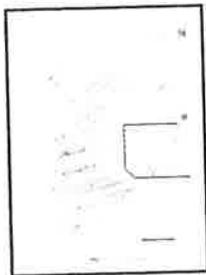


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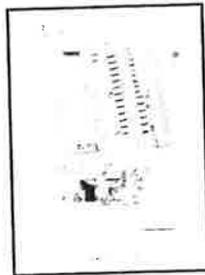
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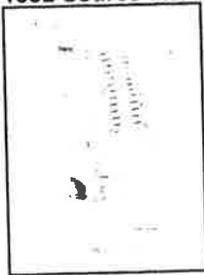


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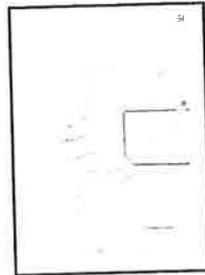
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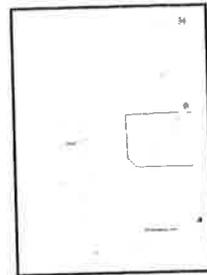
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Volume 7, Sheet 7



Volume 7, Sheet 8



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1990 Source Sheets



Volume 7, Sheet 7



Volume 7, Sheet 8

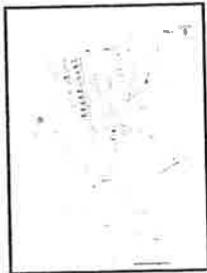


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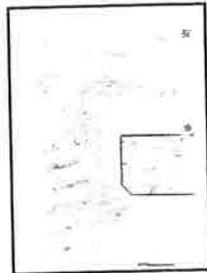
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Volume 7, Sheet 7



Volume 7, Sheet 8



Volume 7, Sheet 94

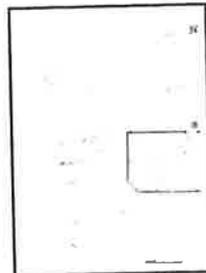
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Volume 7, Sheet 7



Volume 7, Sheet 8



Volume 7, Sheet 94

1986 Source Sheets



Volume 7, Sheet 7



Volume 7, Sheet 8



Volume 7, Sheet 94

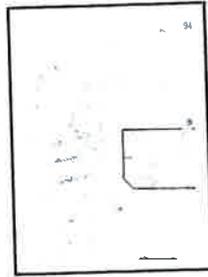
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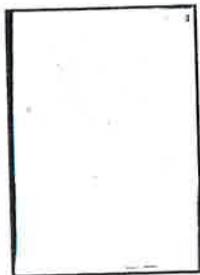


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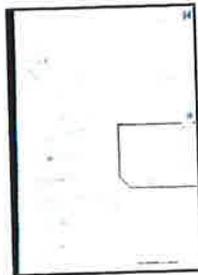
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Volume 7, Sheet 8



Volume 7, Sheet 94

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Volume 7, Sheet 7

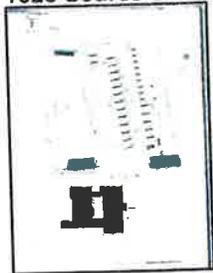


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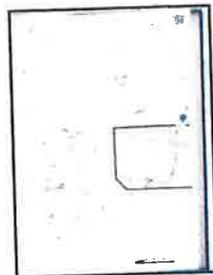
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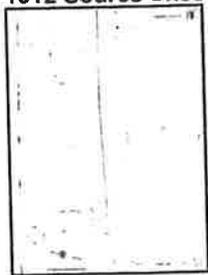


Volume 7, Sheet 8



Volume 7, Sheet 94

1912 Source Sheets



Volume 7, Sheet 18



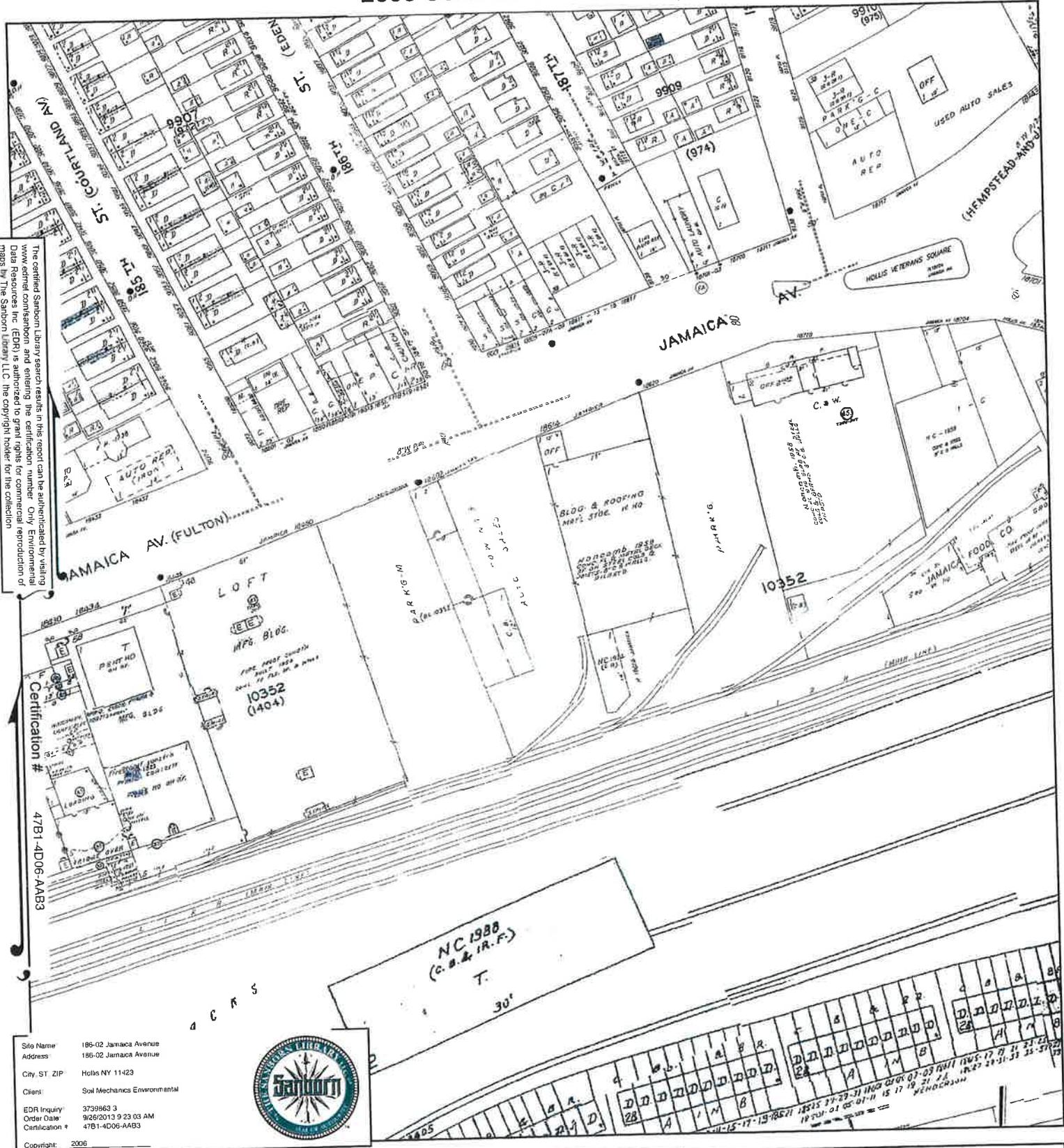
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Volume 4, Sheet 79

2006 Certified Sanborn Map



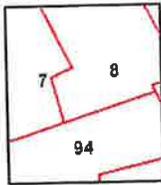
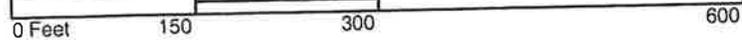
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 Address 186-02 Jamaica Avenue
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 Client Soil Mechanics Environmental
 EDR Inquiry 3739863 3
 Order Date 9/26/2013 9:23:03 AM
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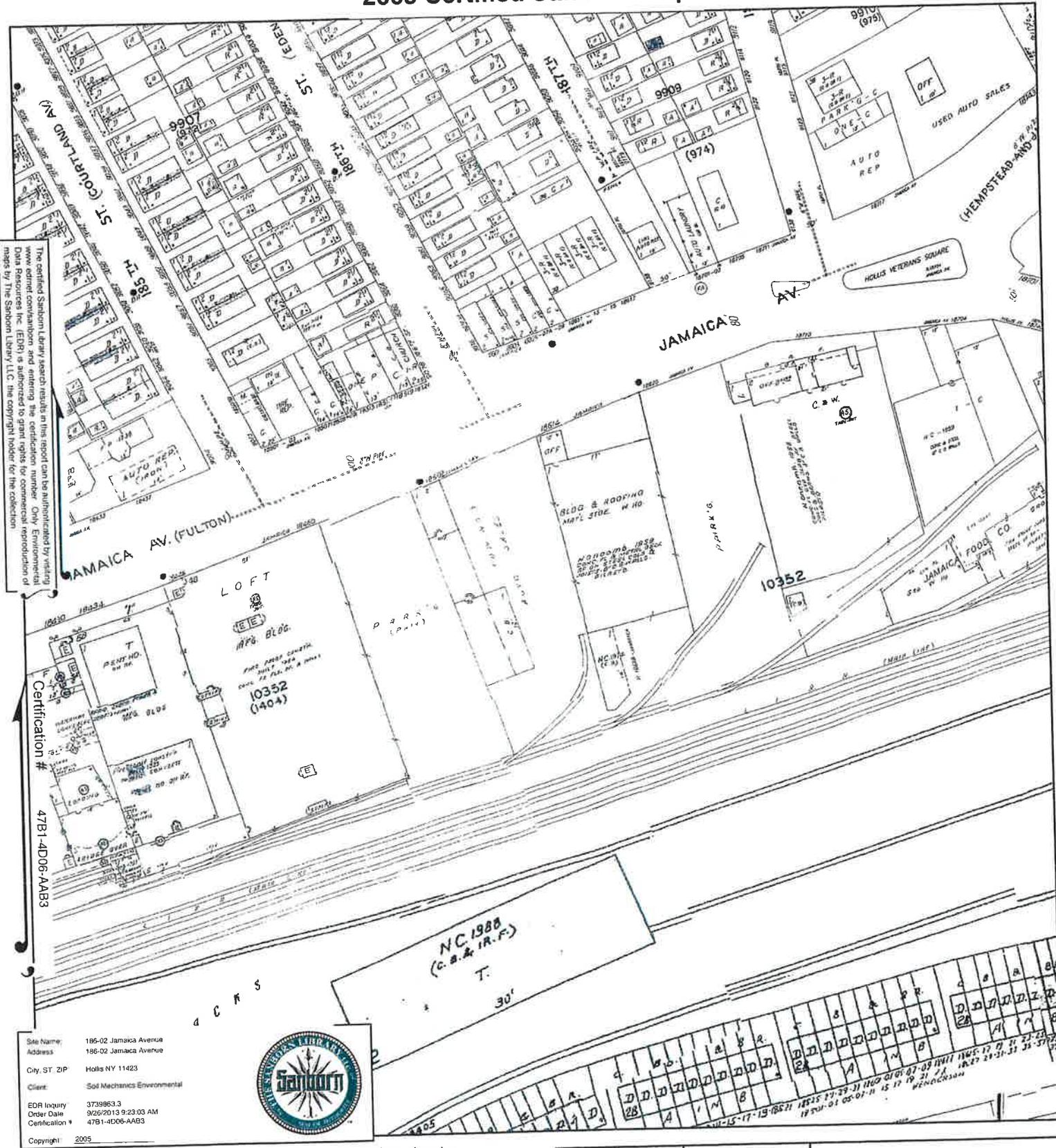
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2005 Certified Sanborn Map



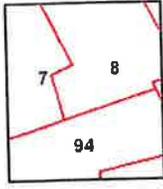
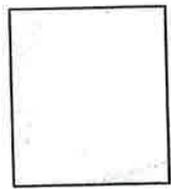
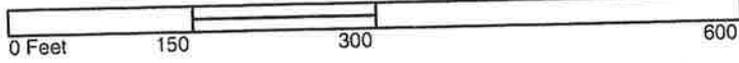
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 Client: Soil Mechanics Environmental
 EDR Inquiry: 3739863.3
 Order Date: 9/26/2013 9:23:03 AM
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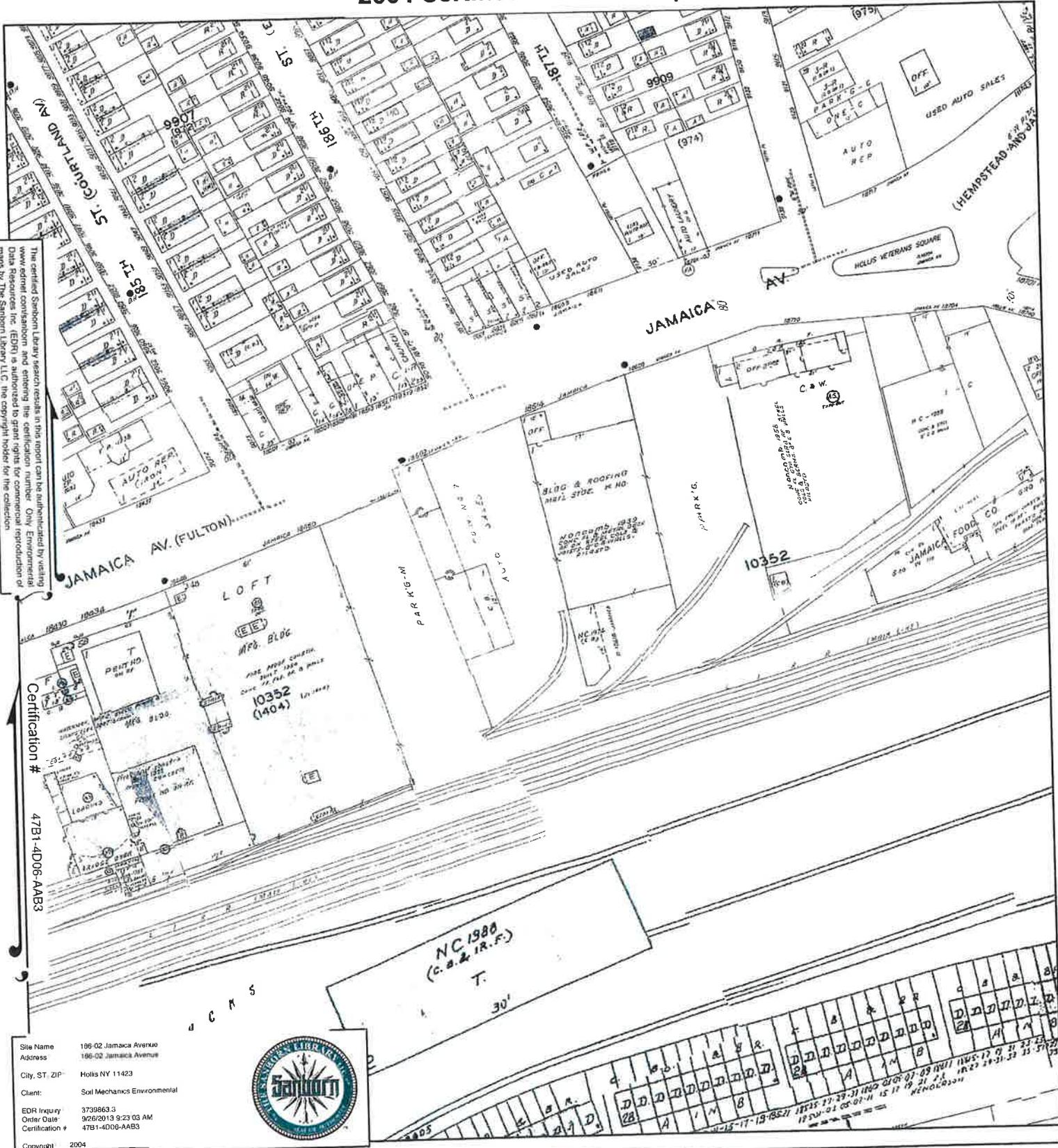
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2004 Certified Sanborn Map



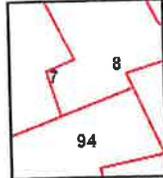
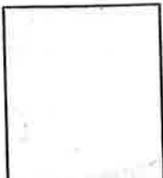
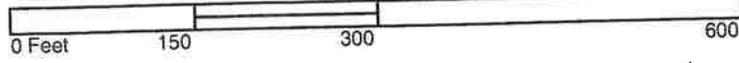
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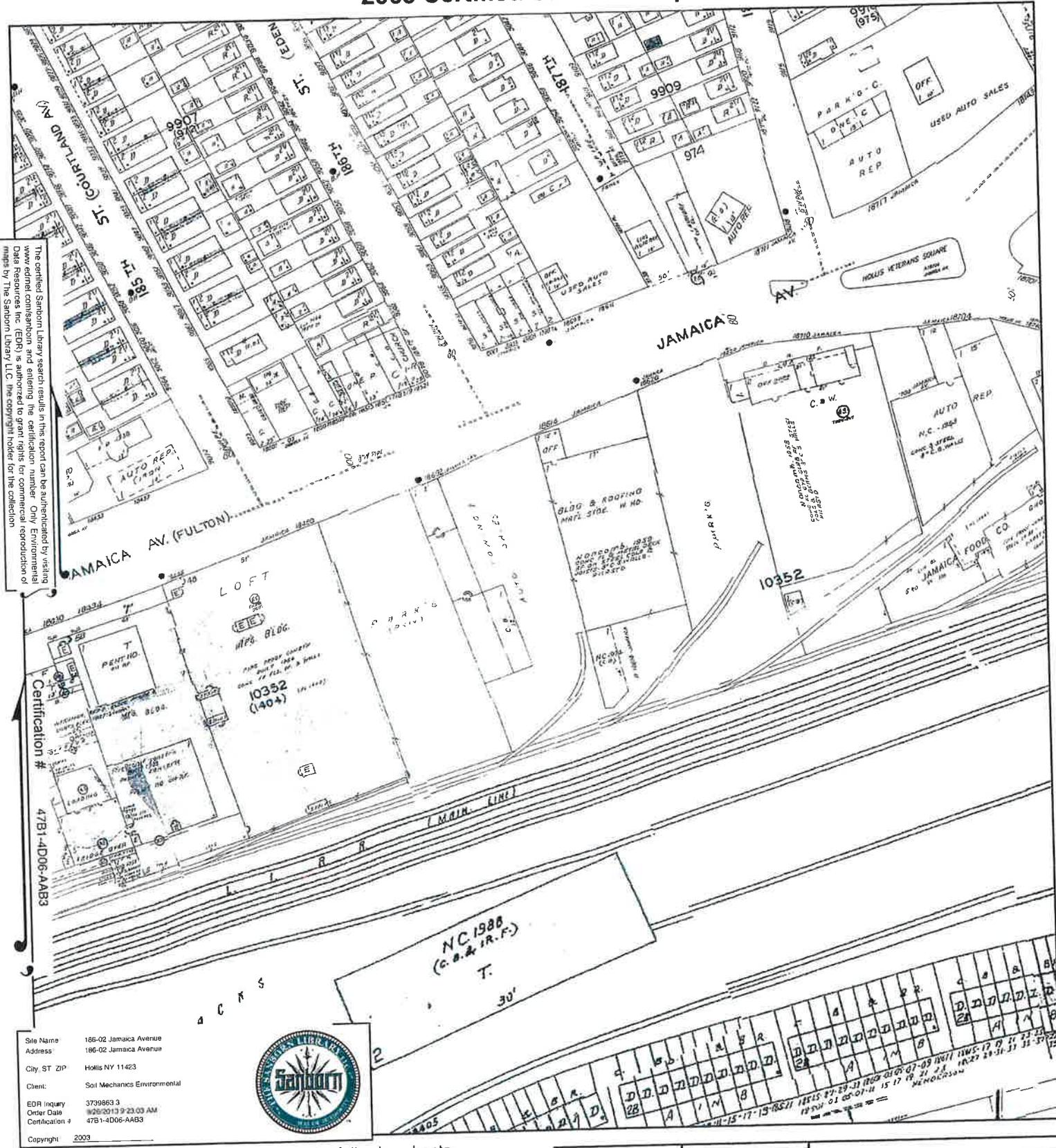
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2003 Certified Sanborn Map

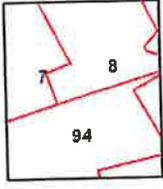
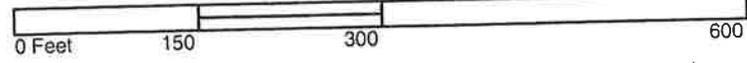


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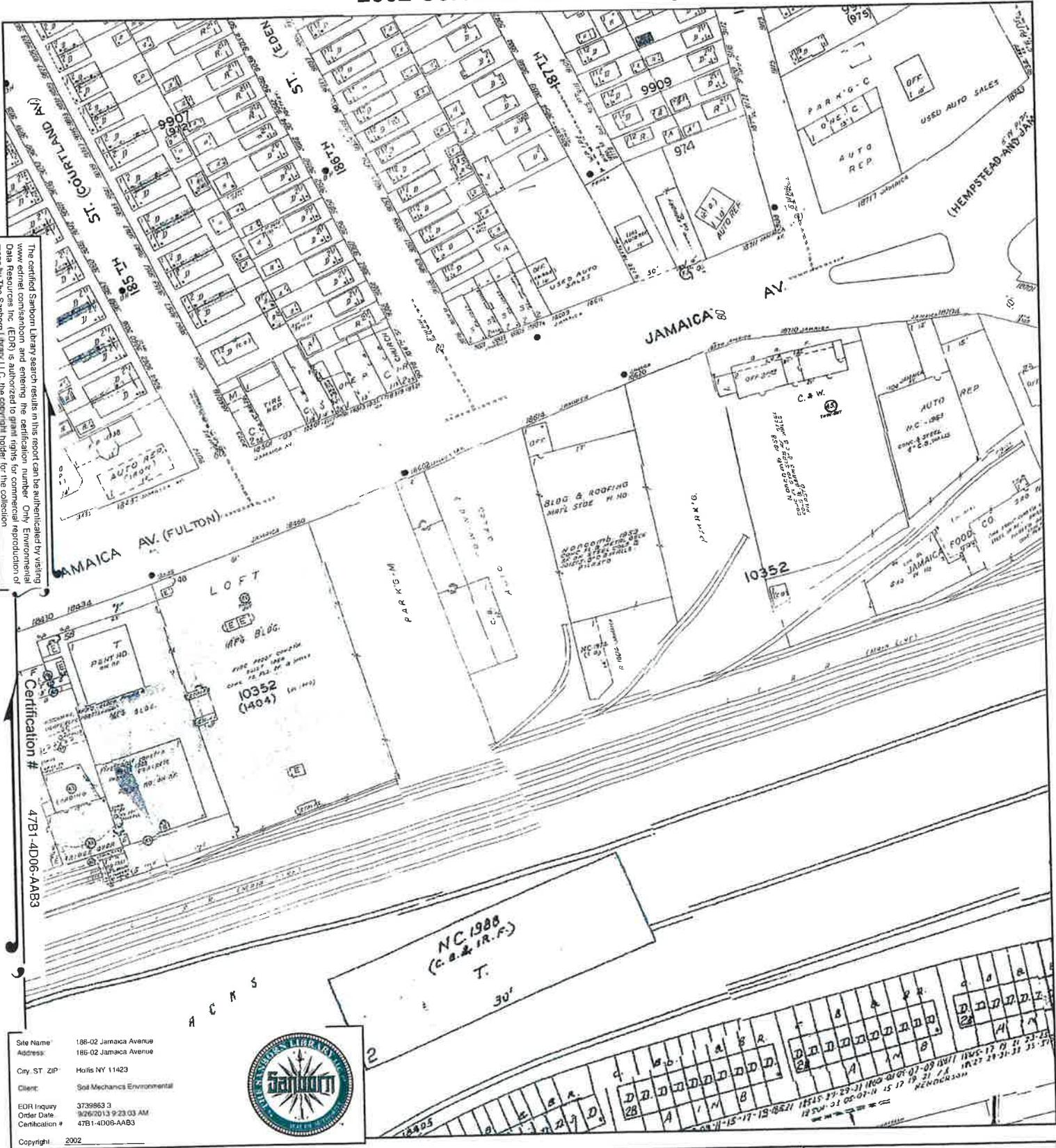
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2002 Certified Sanborn Map



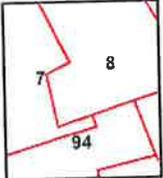
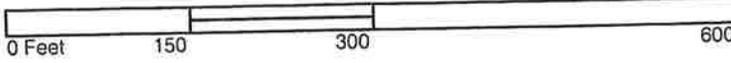
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 Address: 186-02 Jamaica Avenue
 City, ST, ZIP: Hollis NY 11423
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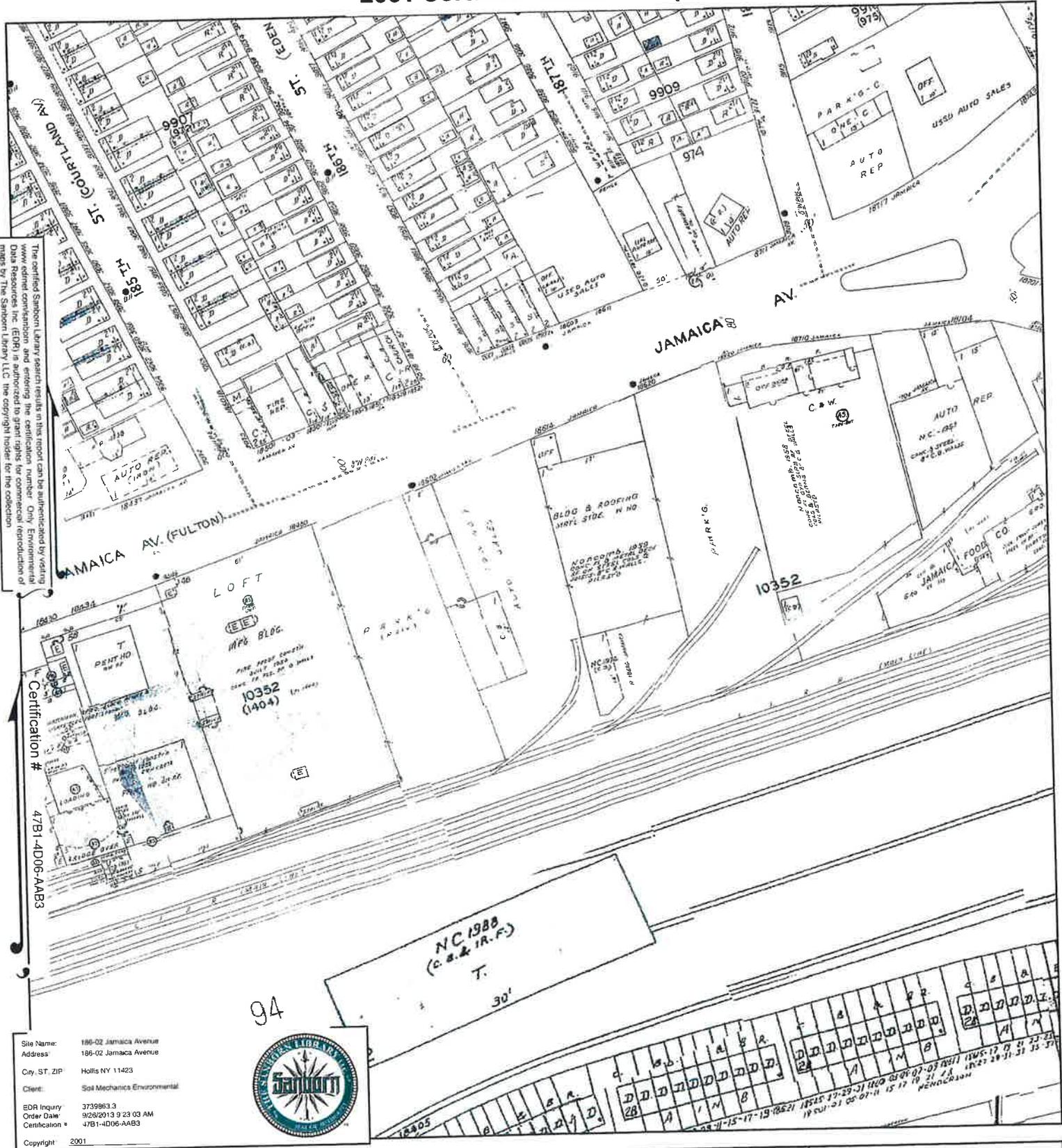
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2001 Certified Sanborn Map



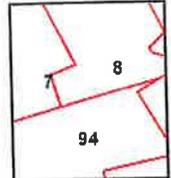
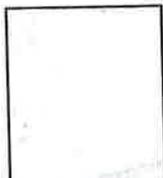
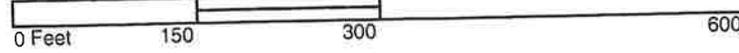
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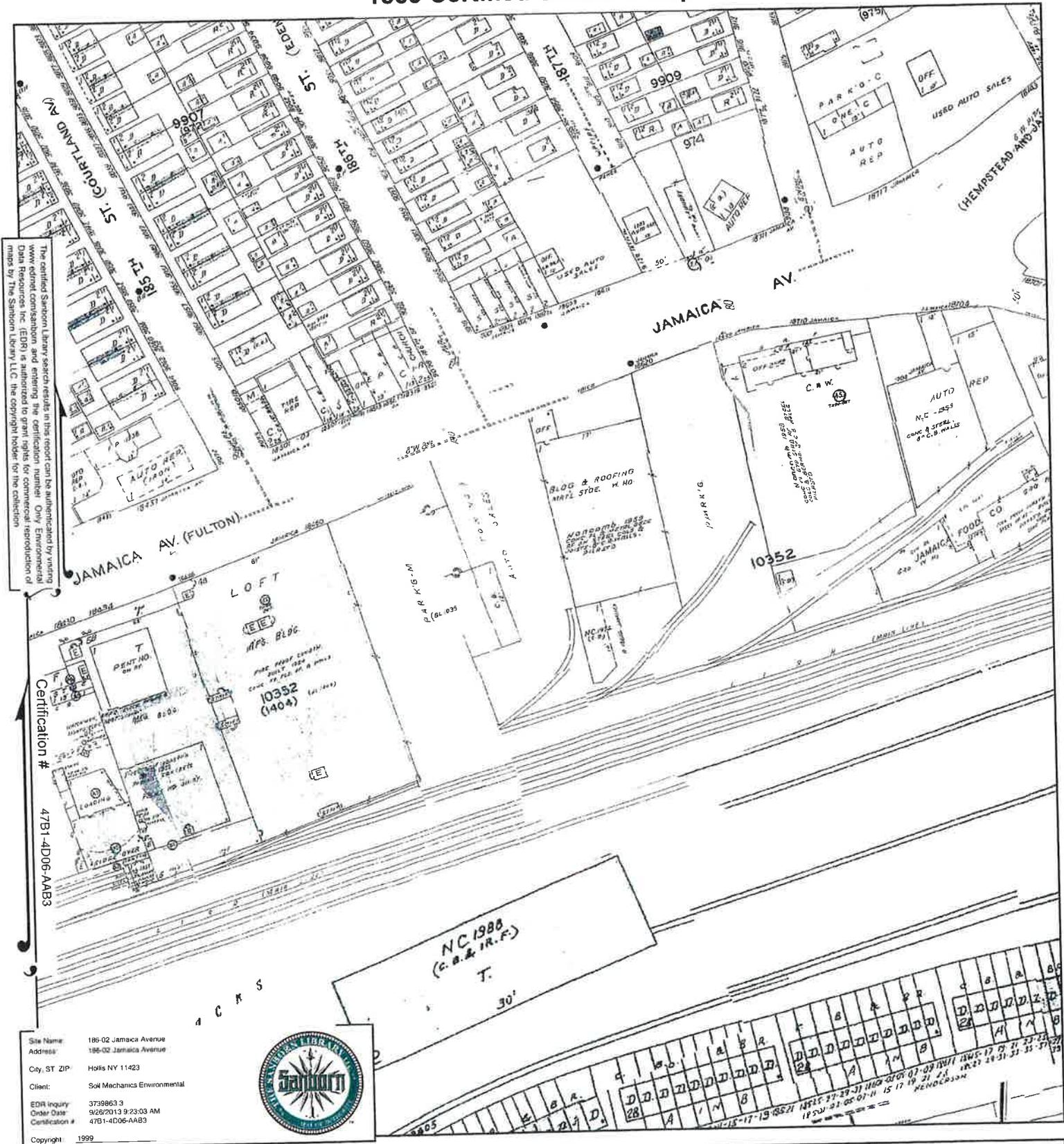
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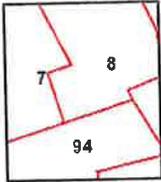
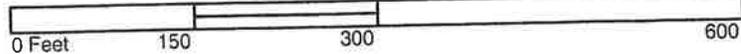
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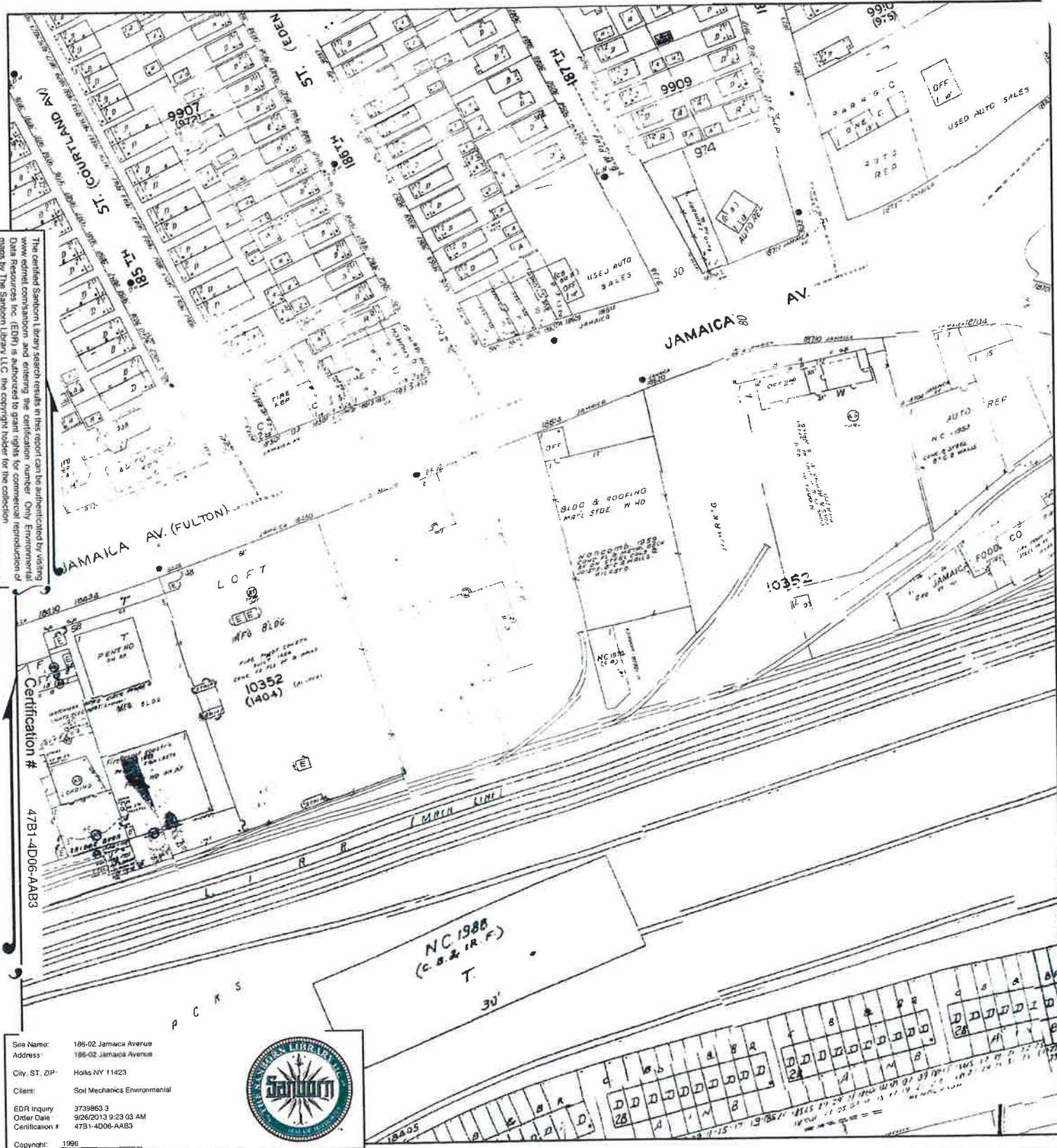
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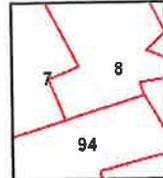
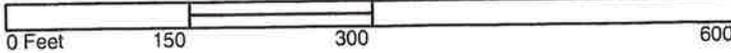
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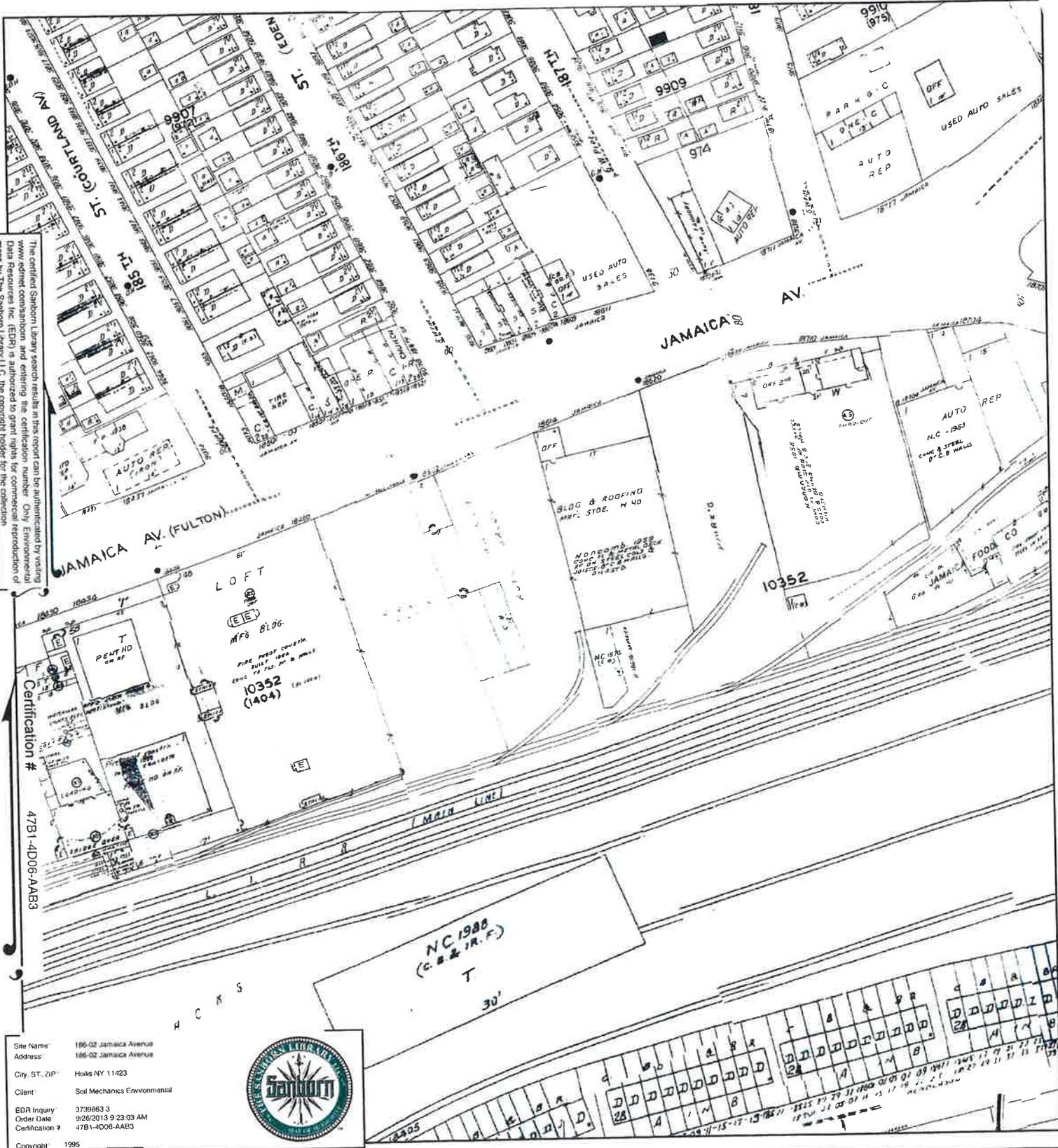
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1995 Certified Sanborn Map



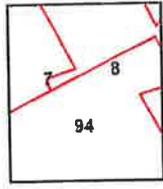
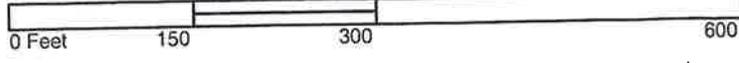
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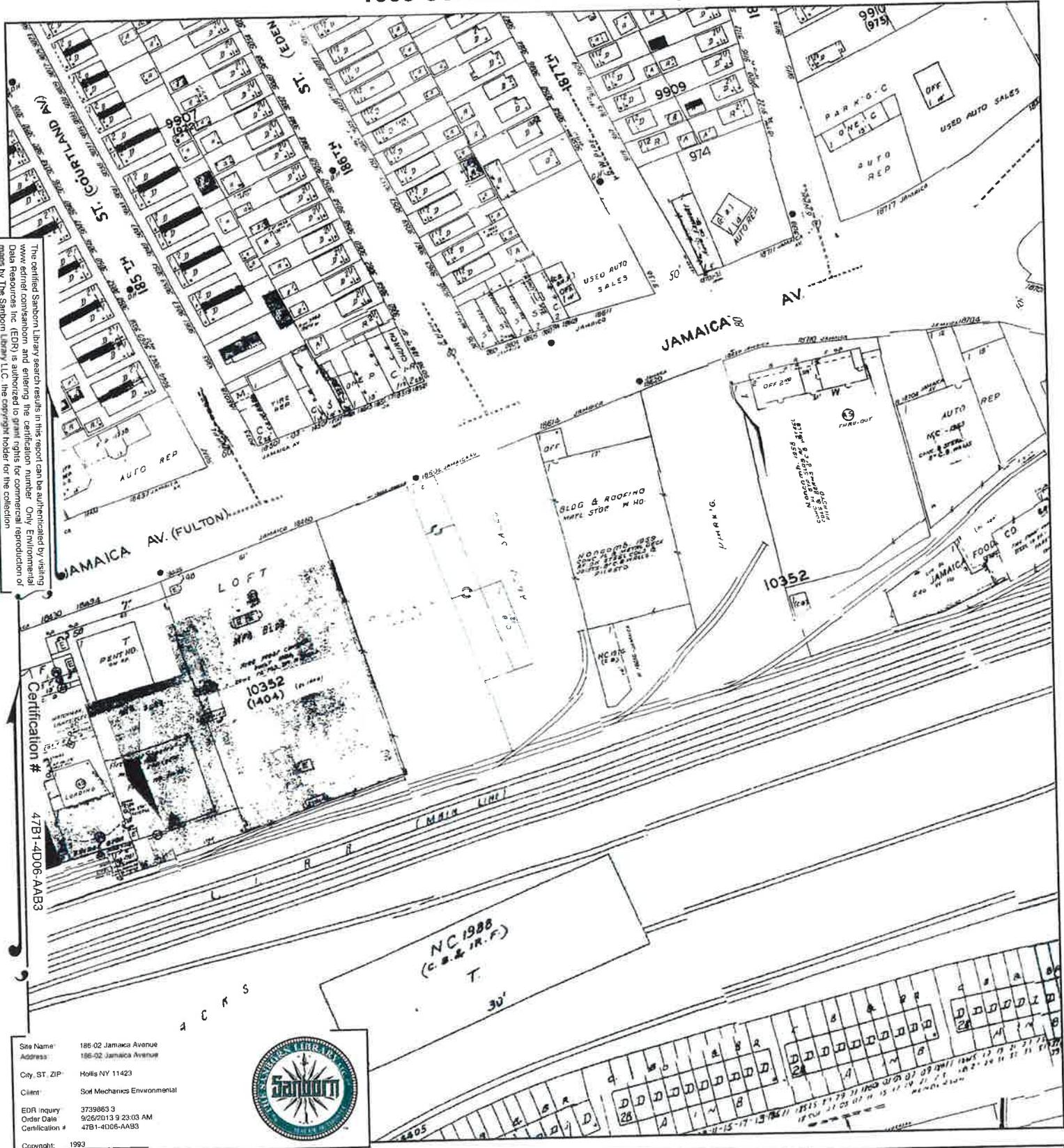
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1993 Certified Sanborn Map



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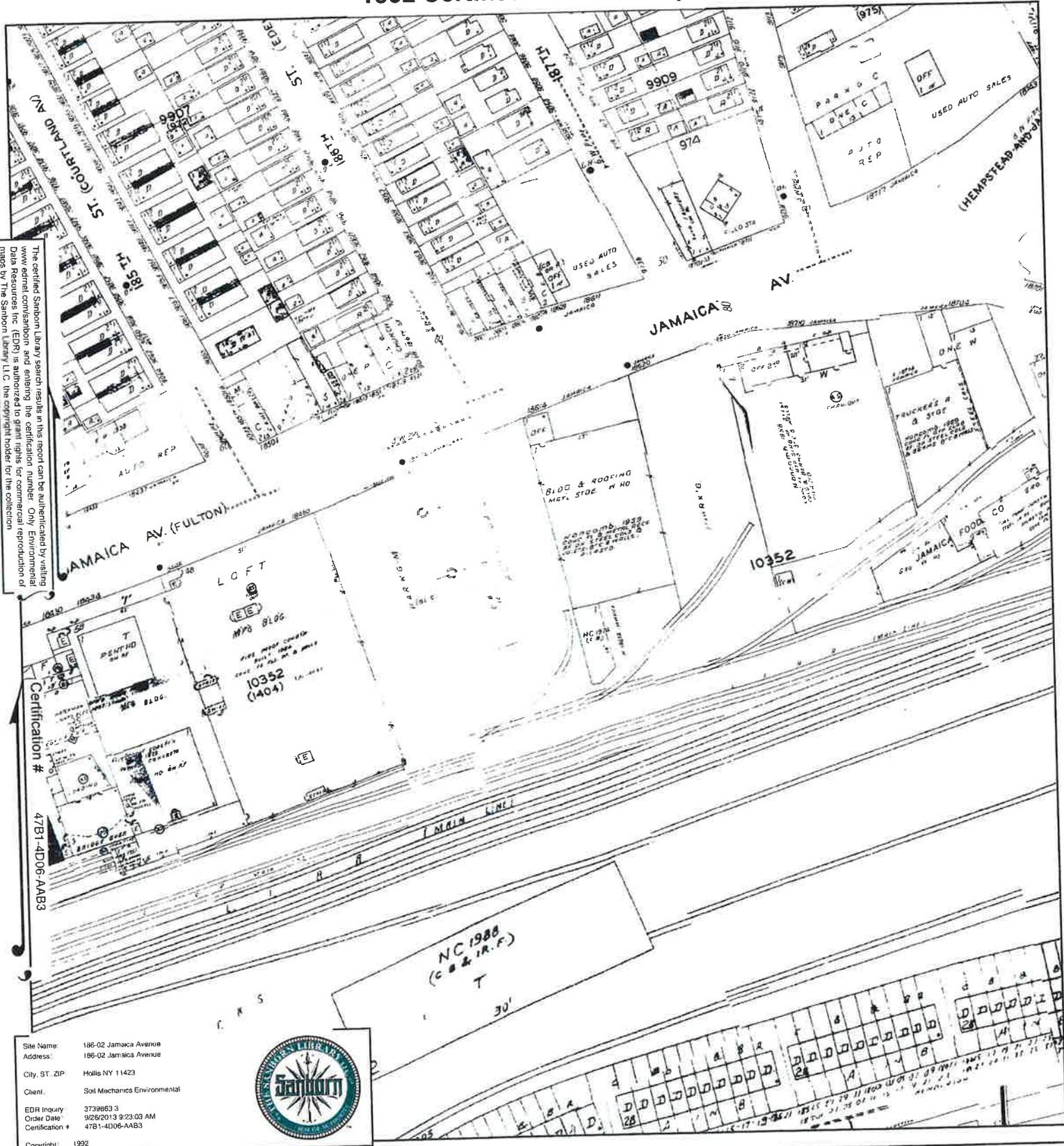


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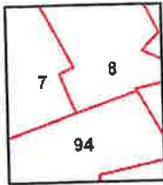
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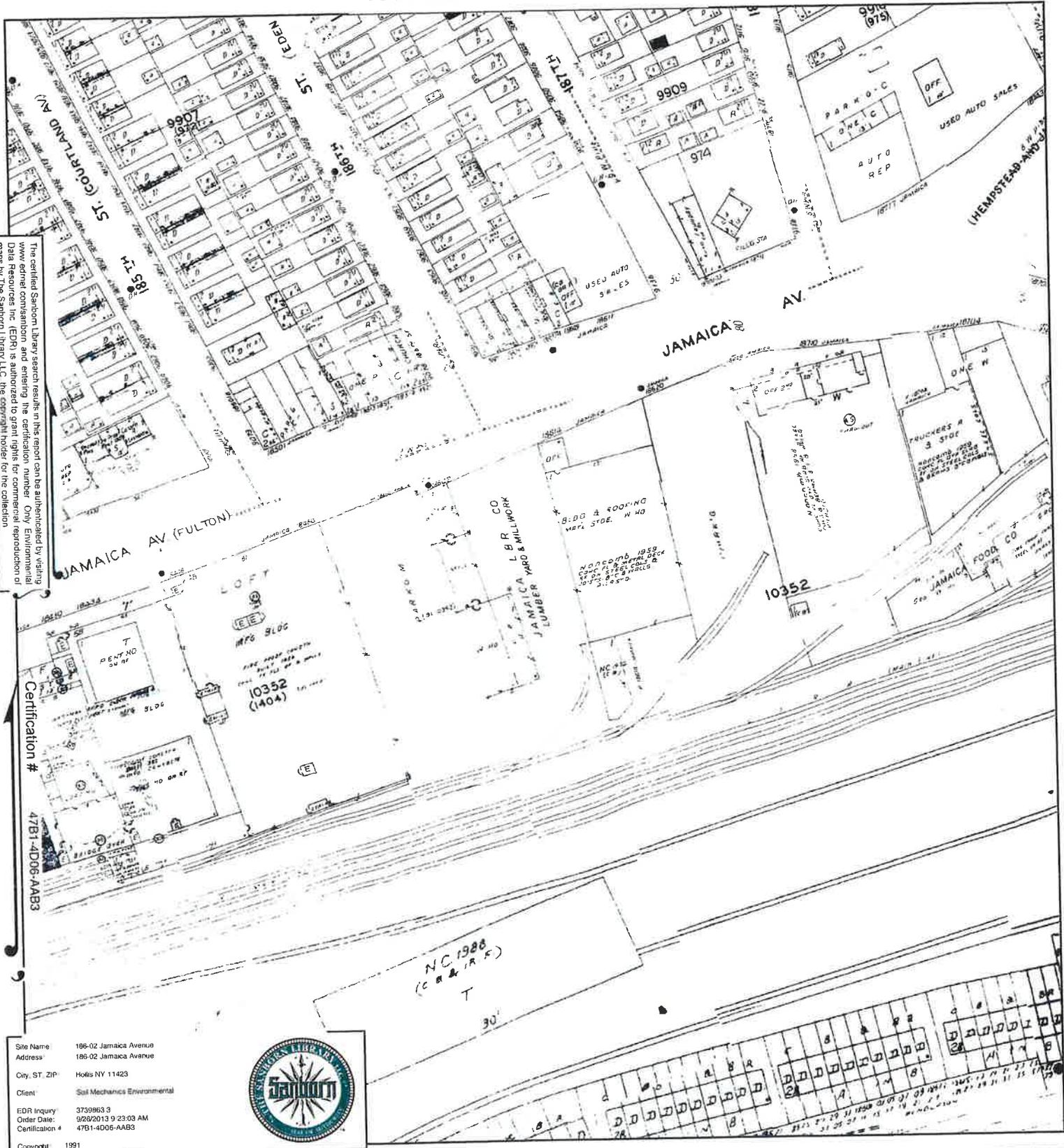


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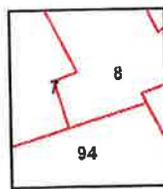
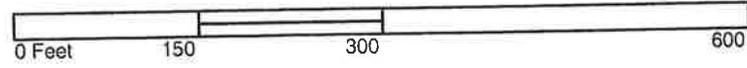
1991 Certified Sanborn Map



Site Name 186-02 Jamaica Avenue
 Address 186-02 Jamaica Avenue
 City, ST, ZIP Hollis NY 11423
 Client Soil Mechanics Environmental
 EDR Inquiry 3739863 3
 Order Date 9/26/2013 9:23:03 AM
 Certification # 4781-4D06-AAB3
 Copyright 1991

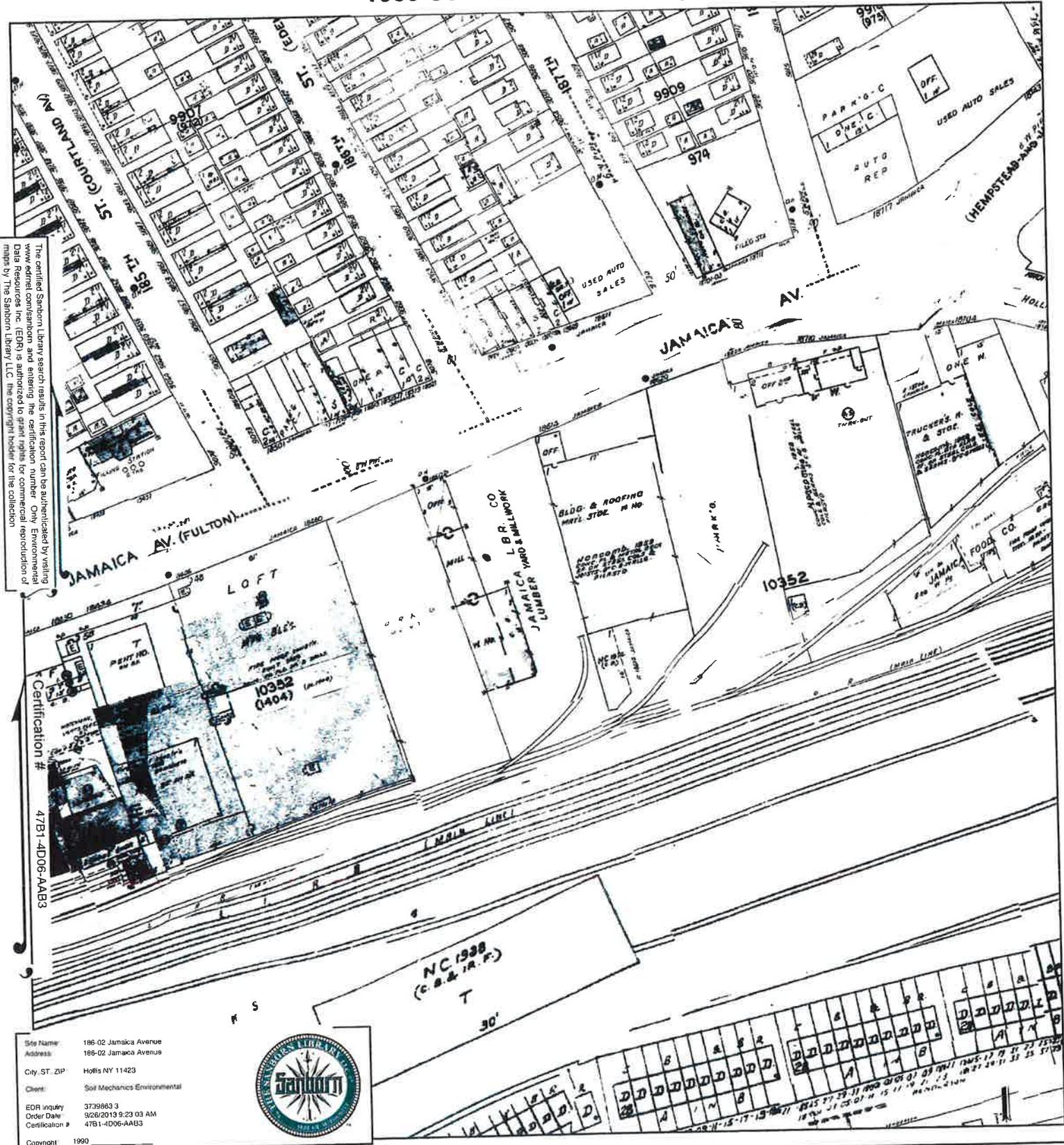


This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



Volume 7, Sheet 7
 Volume 7, Sheet 8
 Volume 7, Sheet 94

1990 Certified Sanborn Map



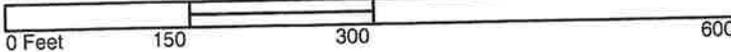
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Certification # 47B1-4D06-AAB3

Site Name: 186-02 Jamaica Avenue
 Address: 186-02 Jamaica Avenue
 City, ST, ZIP: Hollis NY 11423
 Client: Soil Mechanics Environmental
 EDRI inquiry: 3739883 3
 Order Date: 9/28/2013 9:23:03 AM
 Certification #: 47B1-4D06-AAB3
 Copyright: 1990



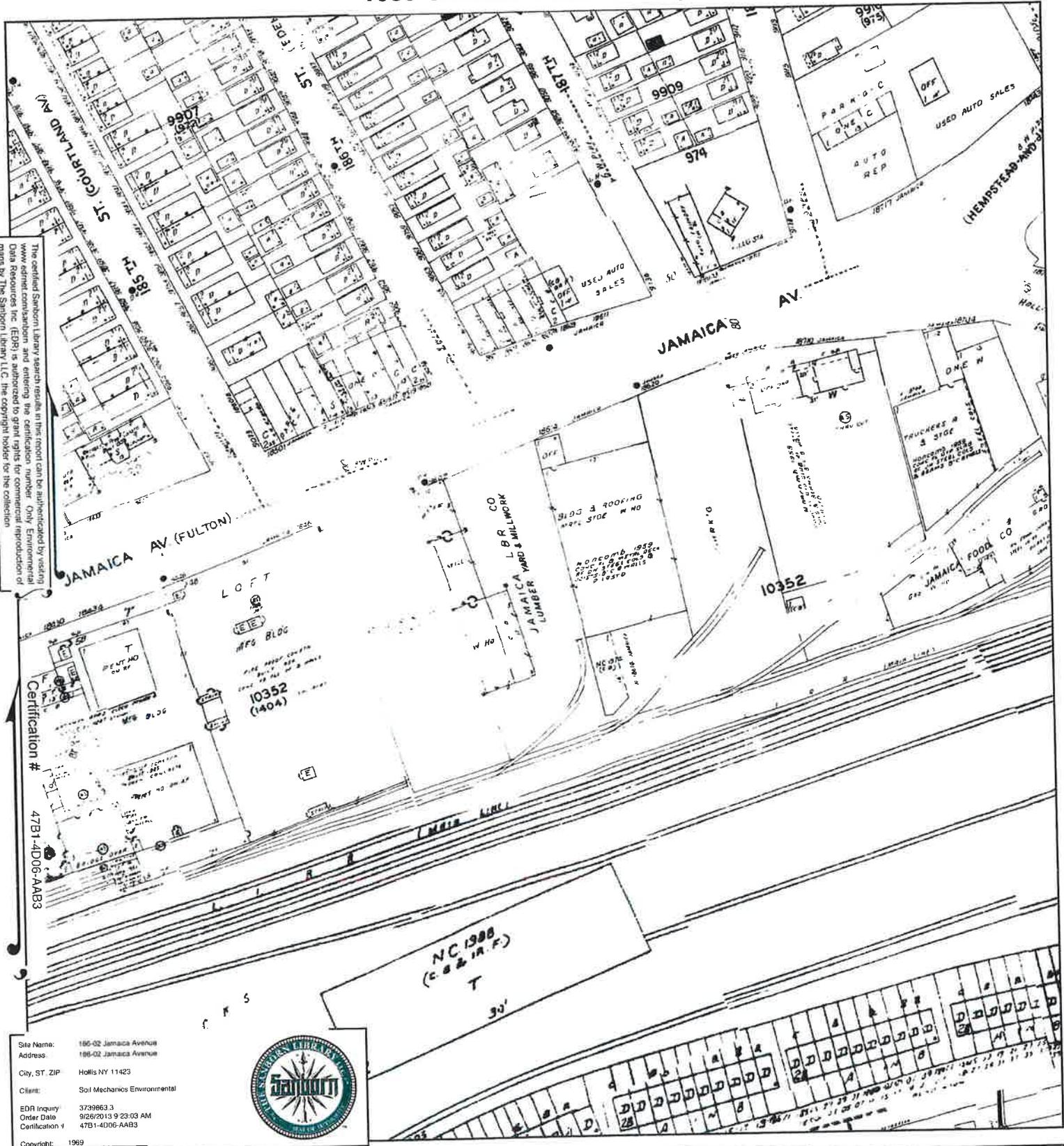
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Volume 7, Sheet 7
 Volume 7, Sheet 8
 Volume 7, Sheet 94



1989 Certified Sanborn Map



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JAMAICA AV (FULTON)
 LOFT
 AFG BLDG
 10352 (1404)

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 JAMAICA

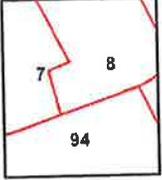
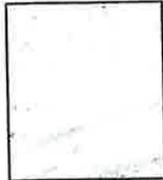
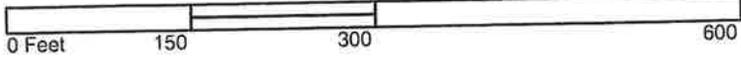
10352

NC 1988
 (E.B. & I.A.F.)
 T
 30'

Site Name: 196-02 Jamaica Avenue
 Address: 196-02 Jamaica Avenue
 City, ST, ZIP: Hollis NY 11423
 Client: Soil Mechanics Environmental
 EDR Inquiry: 3739863.3
 Order Date: 9/26/2013 9:23:03 AM
 Certification #: 47B1-4D06-AAB3
 Copyright: 1989



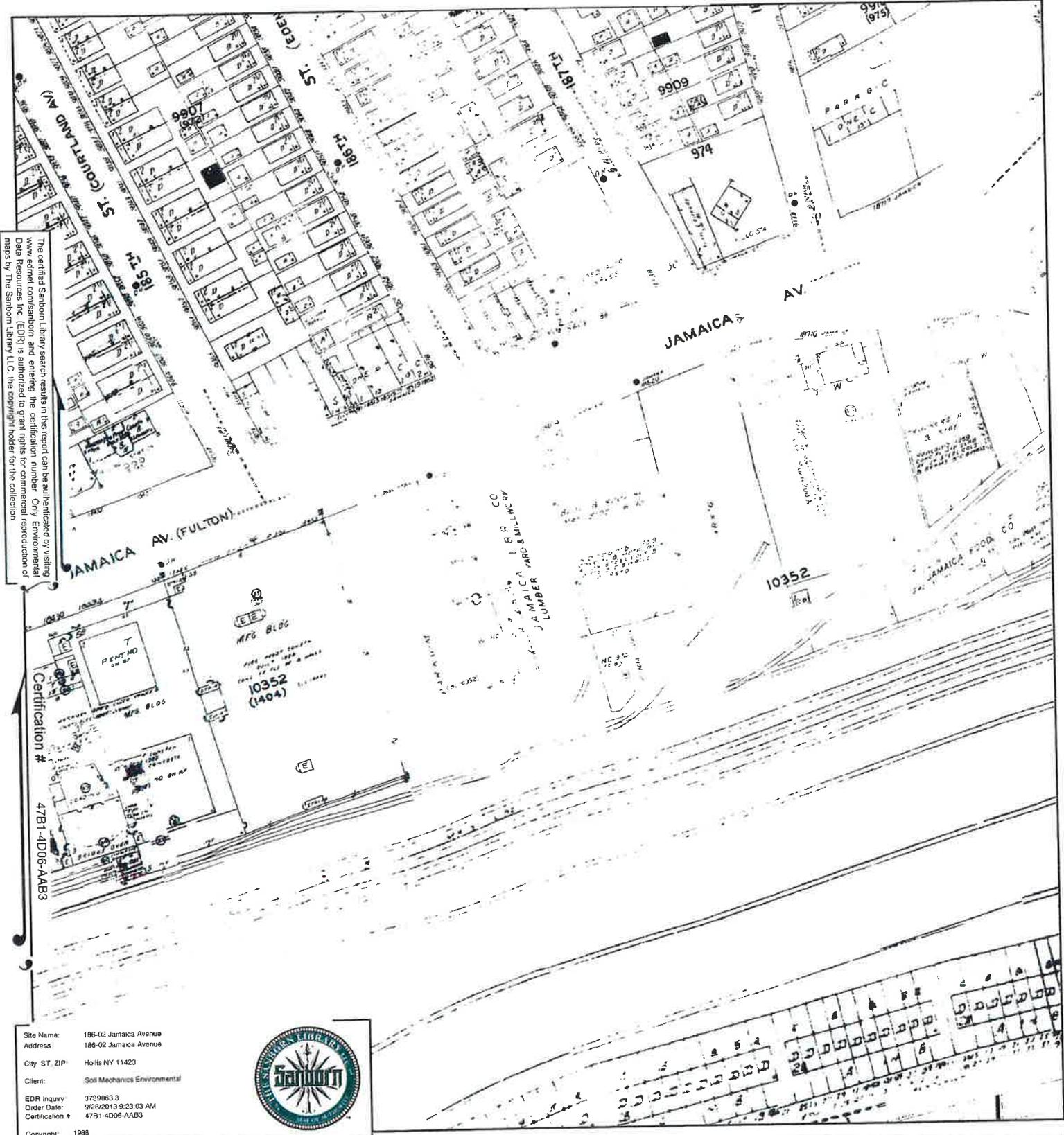
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Volume 7, Sheet 7
 Volume 7, Sheet 8
 Volume 7, Sheet 94



1988 Certified Sanborn Map



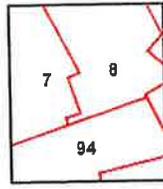
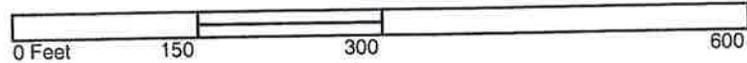
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Certification # 47B1-4D06-AAB3

Site Name: 186-02 Jamaica Avenue
 Address: 186-02 Jamaica Avenue
 City ST, ZIP: Hollis NY 11423
 Client: Soils Mechanics Environmental
 EDR Inquiry: 3739863 3
 Order Date: 9/28/2013 9:23:03 AM
 Certification #: 47B1-4D06-AAB3
 Copyright: 1998



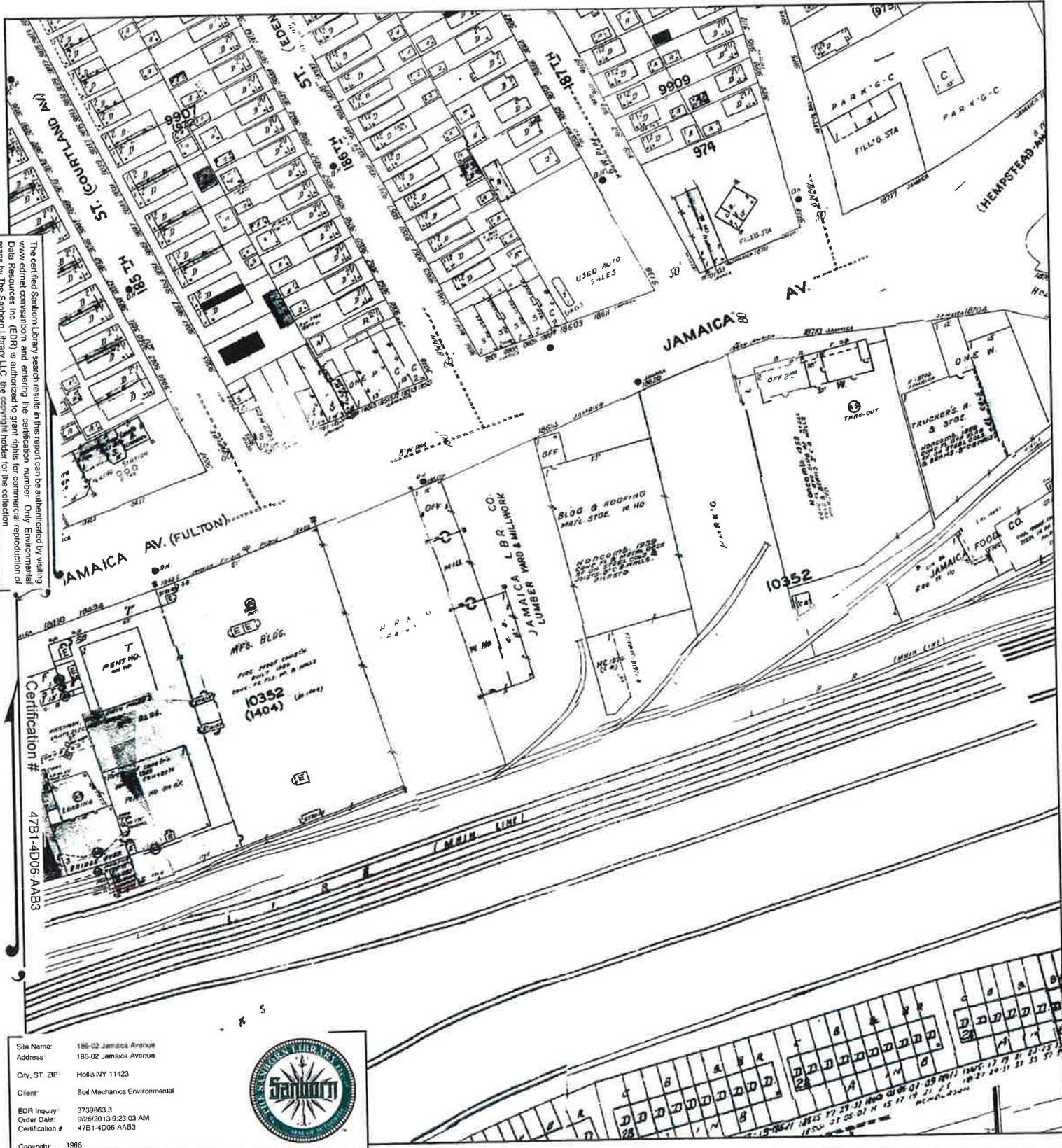
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Volume 7, Sheet 7
 Volume 7, Sheet 8
 Volume 7, Sheet 94



1986 Certified Sanborn Map

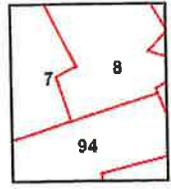
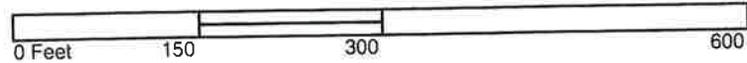


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Site Name: 186-02 Jamaica Avenue
 Address: 186-02 Jamaica Avenue
 City, ST, ZIP: Hollis NY 11423
 Client: Soil Mechanics Environmental
 EDR Inquiry: 3739863.3
 Order Date: 9/26/2013 9:23:03 AM
 Certification #: 47B1-4D06-AAB3
 Copyright: 1986



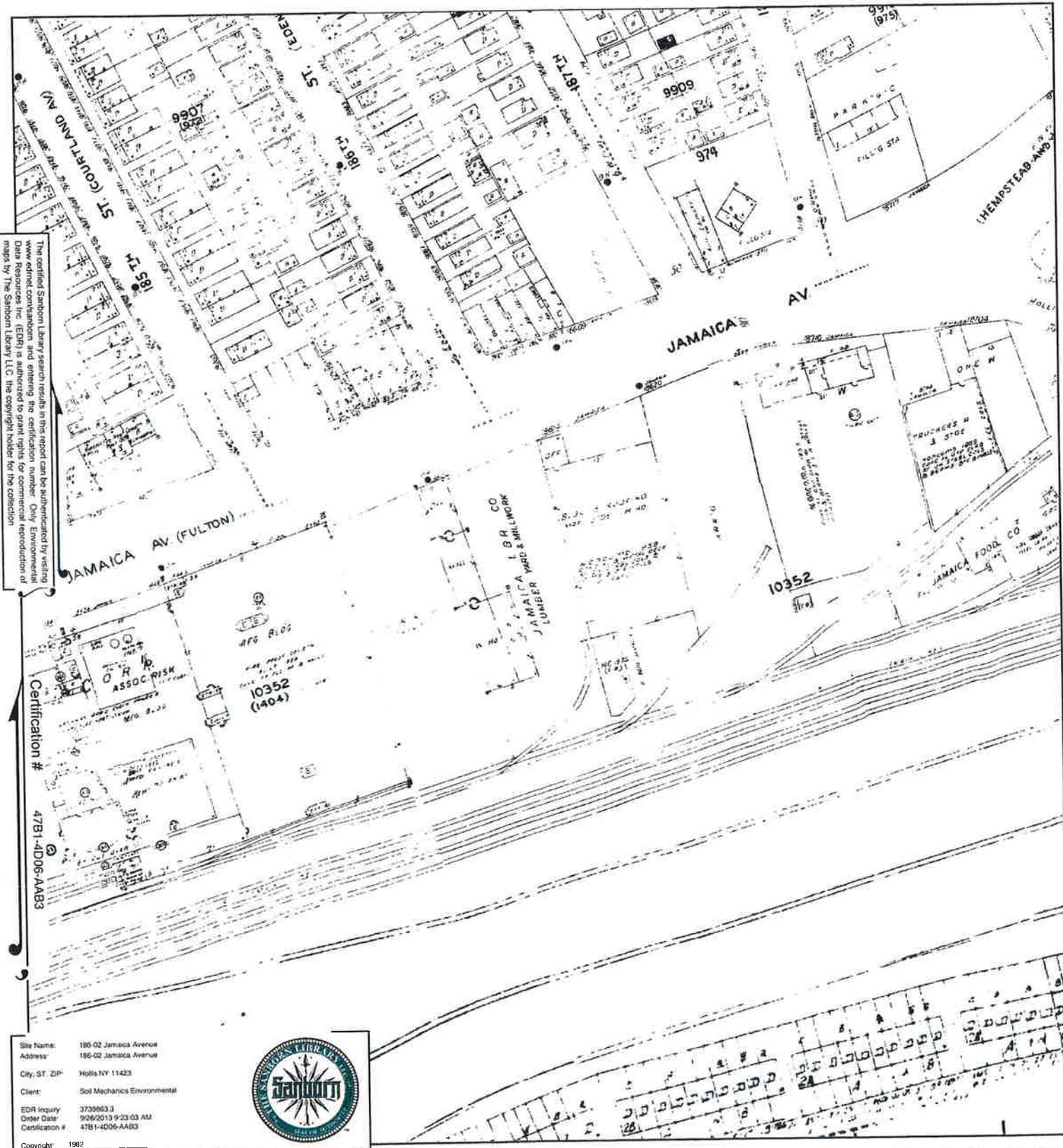
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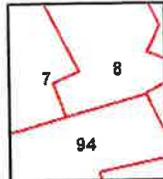
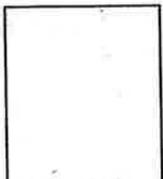
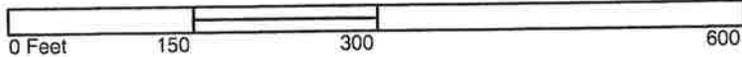
Volume 7, Sheet 7
 Volume 7, Sheet 8
 Volume 7, Sheet 94



1982 Certified Sanborn Map



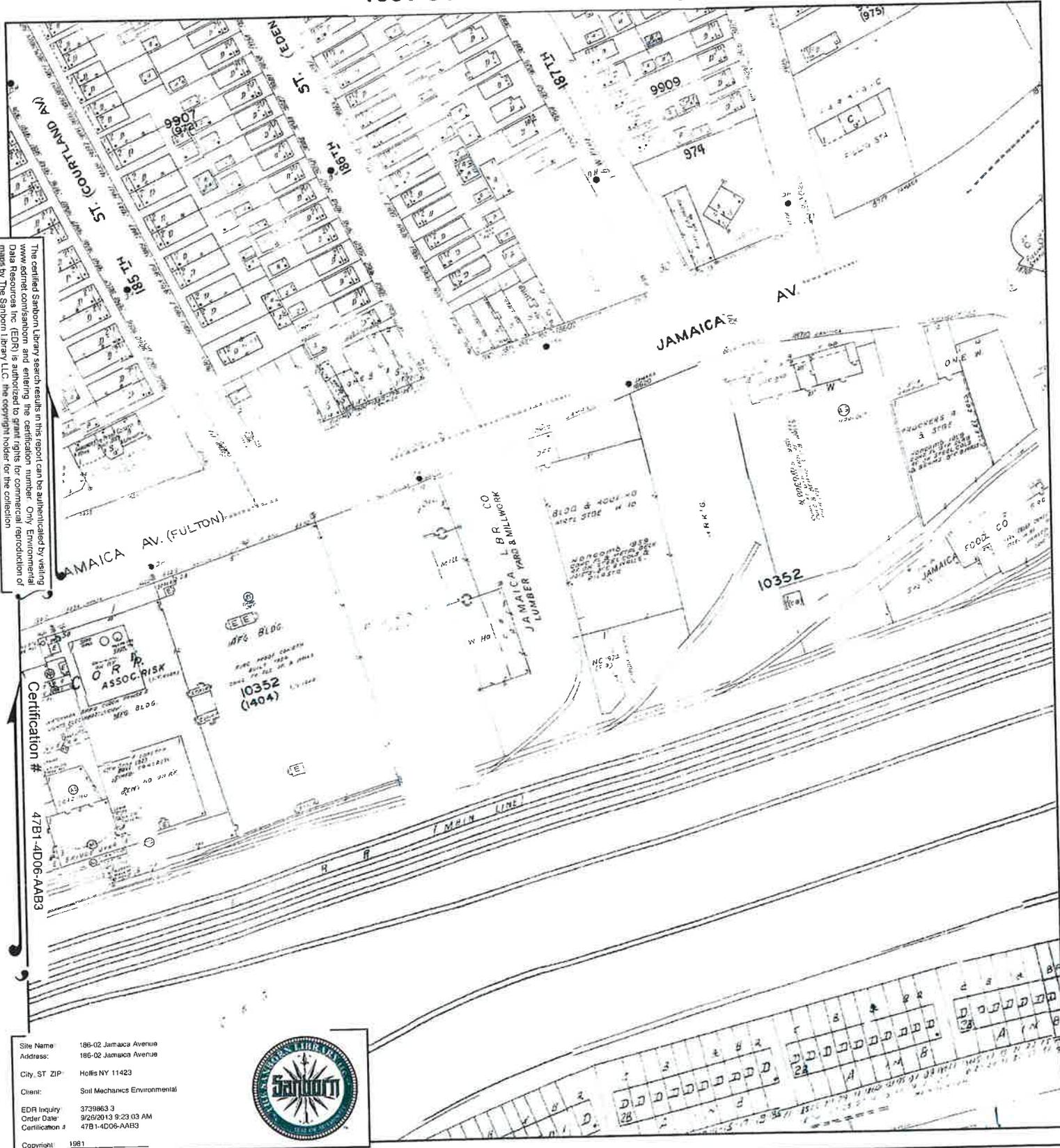
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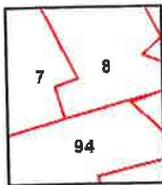
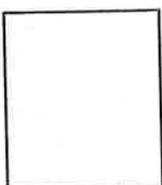
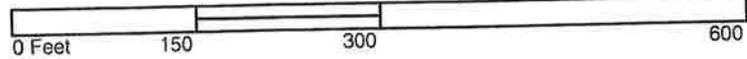
Volume 7, Sheet 7
 Volume 7, Sheet 8
 Volume 7, Sheet 94



1981 Certified Sanborn Map



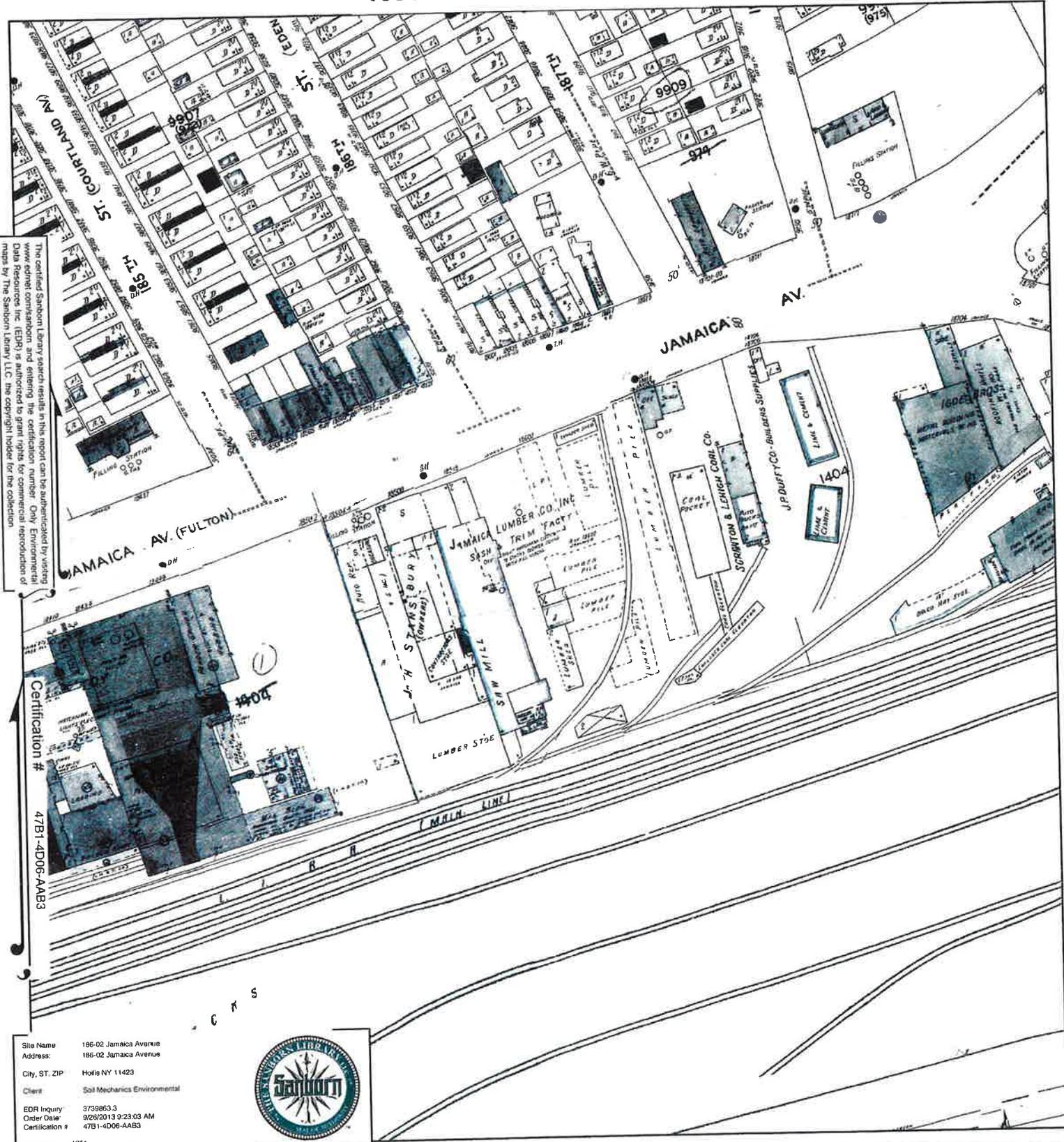
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 Outlined areas indicate map sheets within the collection.



Volume 7, Sheet 7
 Volume 7, Sheet 8
 Volume 7, Sheet 94



1951 Certified Sanborn Map



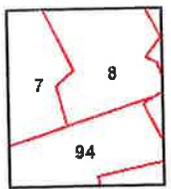
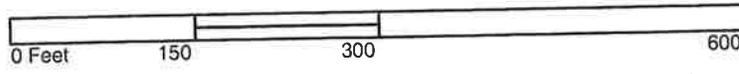
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Site Name: 186-02 Jamaica Avenue
 Address: 186-02 Jamaica Avenue
 City, ST, ZIP: Hollis NY 11423
 Client: Soil Mechanics Environmental
 EDR Inquiry: 3739863-3
 Order Date: 9/23/2013 9:23:03 AM
 Certification #: 47B1-4D06-AAB3
 Copyright: 1951



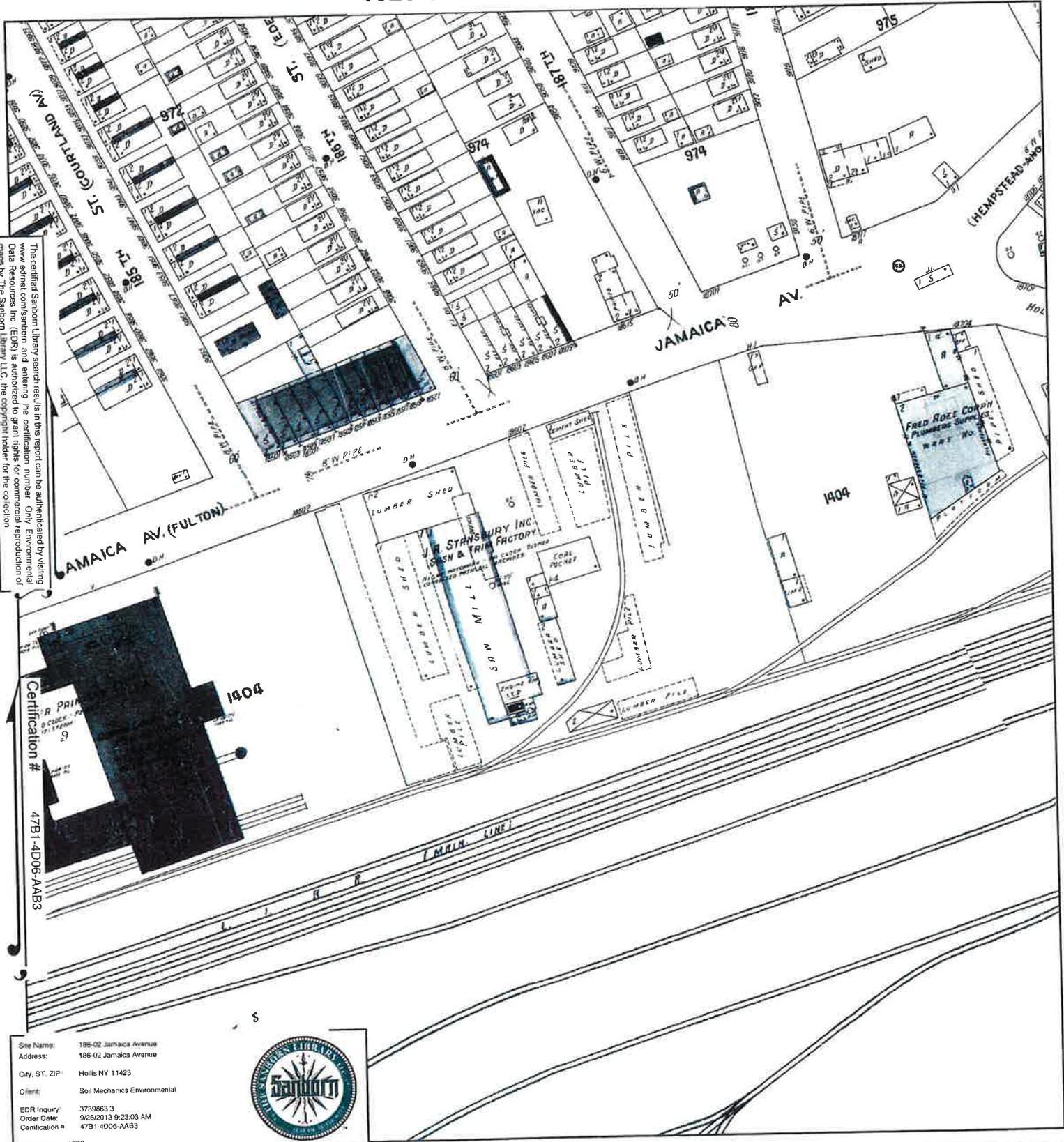
This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



Volume 7, Sheet 7
 Volume 7, Sheet 8
 Volume 7, Sheet 94



1926 Certified Sanborn Map



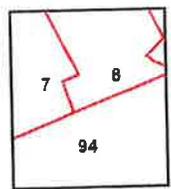
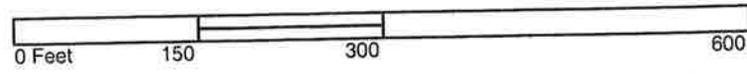
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Certification # 47B1-4D06-AAB3

Site Name: 185-02 Jamaica Avenue
 Address: 185-02 Jamaica Avenue
 City, ST, ZIP: Hollis NY 11423
 Client: Soil Mechanics Environmental
 EDR Inquiry: 3739863 3
 Order Date: 9/28/2013 9:23:03 AM
 Certification #: 47B1-4D06-AAB3
 Copyright: 1926



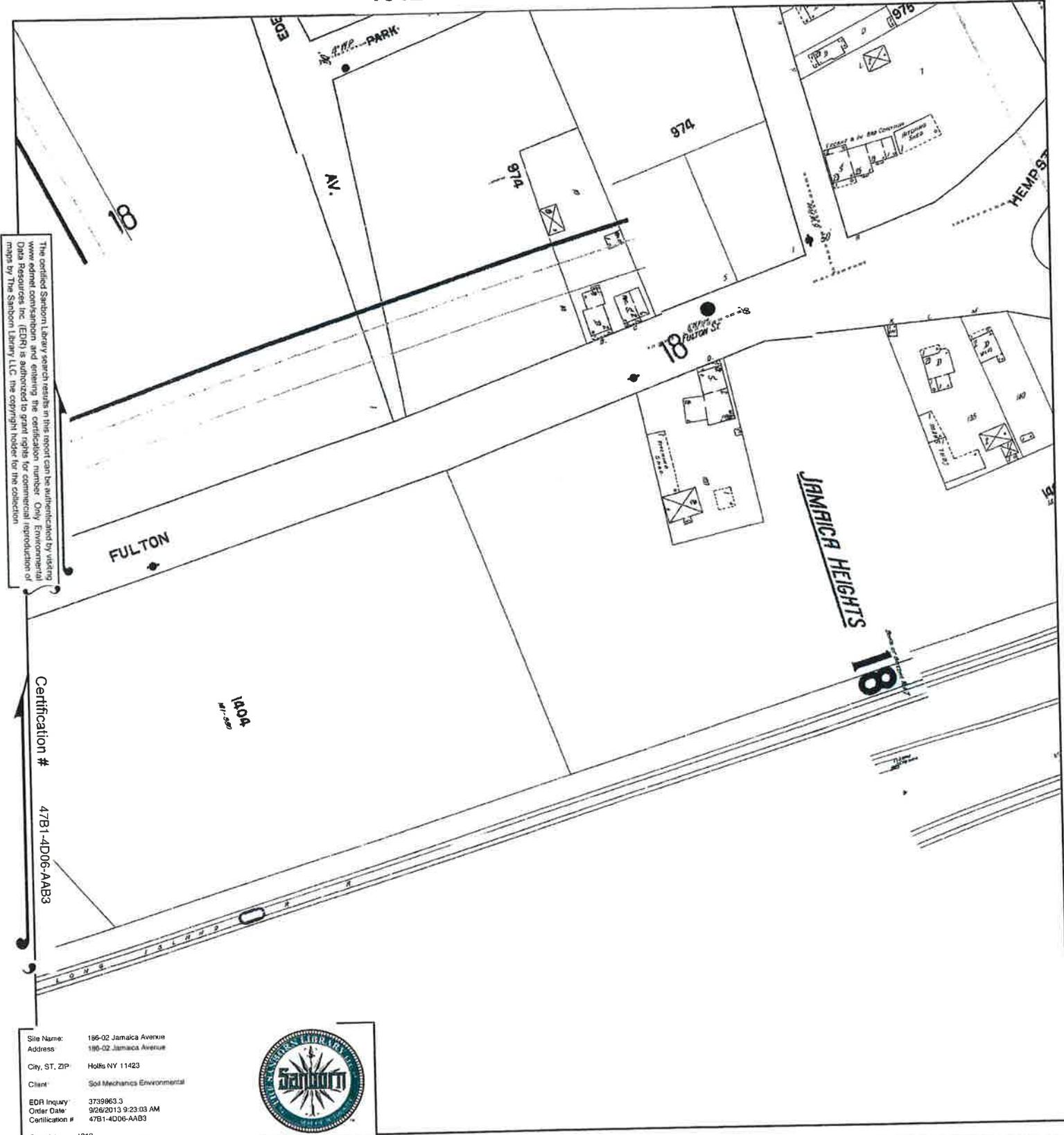
This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 7, Sheet 7
 Volume 7, Sheet 8
 Volume 7, Sheet 94



1912 Certified Sanborn Map



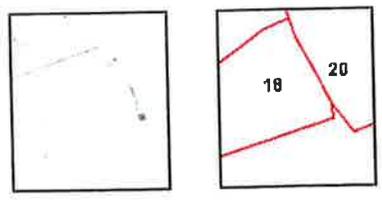
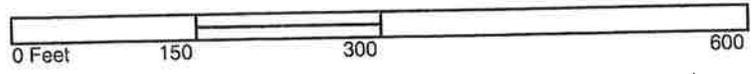
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Site Name: 196-02 Jamaica Avenue
 Address: 196-02 Jamaica Avenue
 City, ST, ZIP: Hollis NY 11423
 Client: Sol Mechanical Environmental
 EDR Inquiry: 3739863.3
 Order Date: 9/26/2013 9:23:03 AM
 Certification #: 47B1-4D06-AAB3
 Copyright: 1912



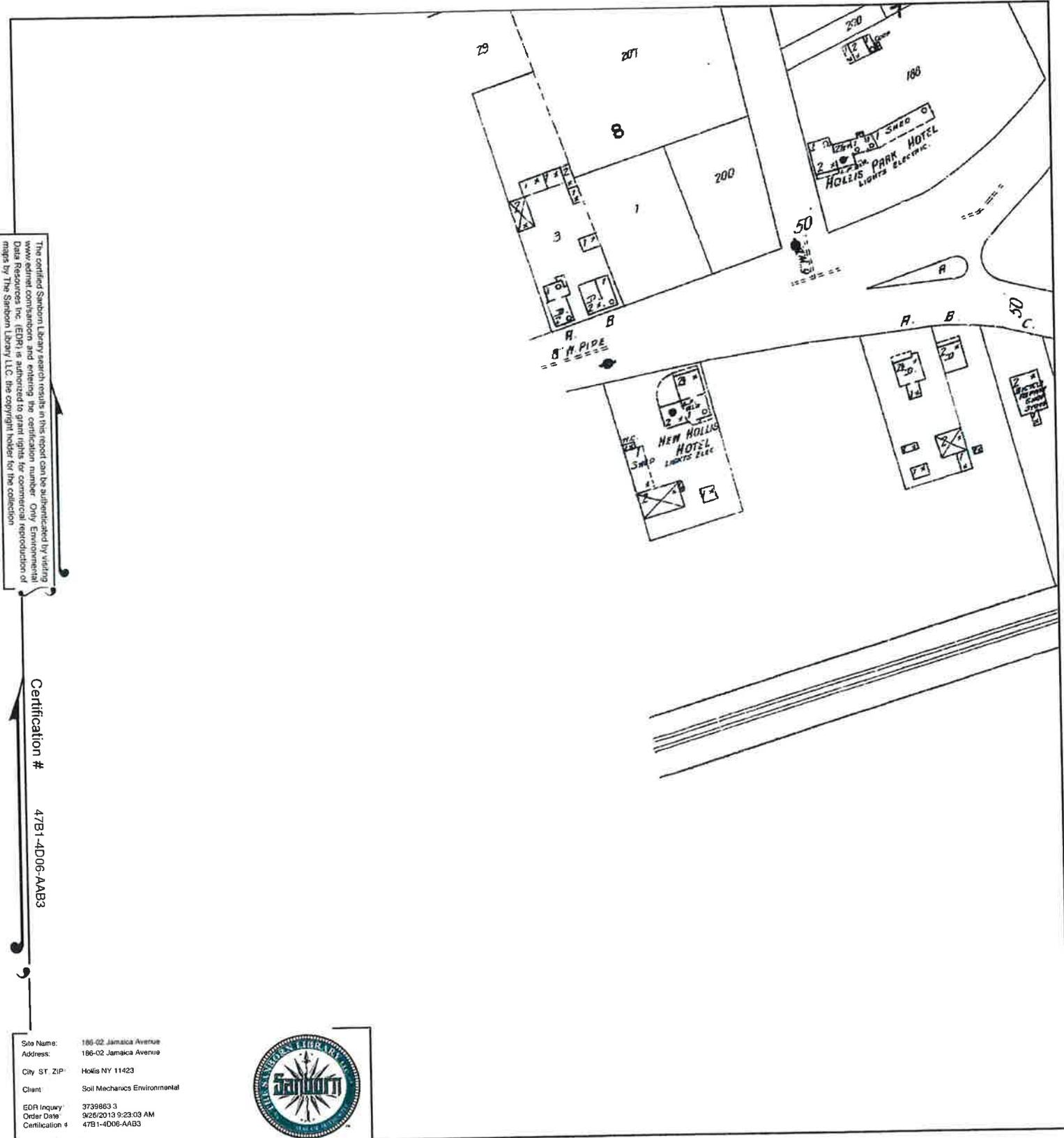
This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 7, Sheet 18
 Volume 7, Sheet 20



1901 Certified Sanborn Map



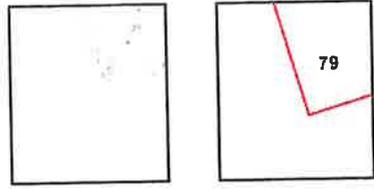
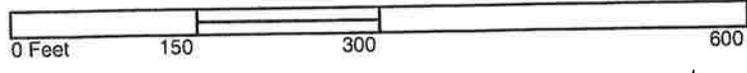
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Certification # 47B1-4D06-AAB3

Site Name: 186-02 Jamaica Avenue
 Address: 186-02 Jamaica Avenue
 City ST ZIP: Hollis NY 11423
 Client: Soil Mechanics Environmental
 EDR Inquiry: 3739863-3
 Order Date: 9/26/2013 9:23:03 AM
 Certification #: 47B1-4D06-AAB3
 Copyright: 1901



This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



Volume 4, Sheet 79



**AERIAL PHOTO DECADE
PACKAGE**



186-02 Jamaica Avenue
186-02 Jamaica Avenue
Hollis, NY 11423

Inquiry Number: 3739863.5
September 26, 2013

The EDR Aerial Photo Decade Package



440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography September 26, 2013

Target Property:

186-02 Jamaica Avenue

Hollis, NY 11423

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1924	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/Flight Date: July 01, 1924	EDR
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/Flight Date: February 23, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/Flight Date: April 01, 1975	EDR
1980	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/Flight Date: April 06, 1980	EDR
1984	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/Flight Date: April 27, 1984	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/DOQQ - acquisition dates: April 08, 1994	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/Flight Year: 2006	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/Flight Year: 2009	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F7, Jamaica, NY;/Flight Year: 2011	EDR



14 D

INQUIRY #: 3739863.5
YEAR: 1924
|—————| = 500'





INQUIRY #: 3739863.5

YEAR: 1954

— = 500'





INQUIRY #: 3739863.5

YEAR: 1966

|—————| = 500'





K-1

INQUIRY #: 3739863.5

YEAR: 1975

|—————| = 500'





INQUIRY #: 3739863.5

YEAR: 1980

— = 500'





INQUIRY #: 3739863.5

YEAR: 1984

|—————| = 500'





INQUIRY #: 3739863.5

YEAR: 1994

| = 500'





INQUIRY #: 3739863.5

YEAR: 2006

|—————| = 500'





INQUIRY #: 3739863.5

YEAR: 2009

 = 500'





INQUIRY #: 3739863.5

YEAR: 2011

| = 500'



HISTORICAL TOPOGRAPHIC MAP REPORT



186-02 Jamaica Avenue

186-02 Jamaica Avenue

Hollis, NY 11423

Inquiry Number: 3739863.4

September 25, 2013

EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

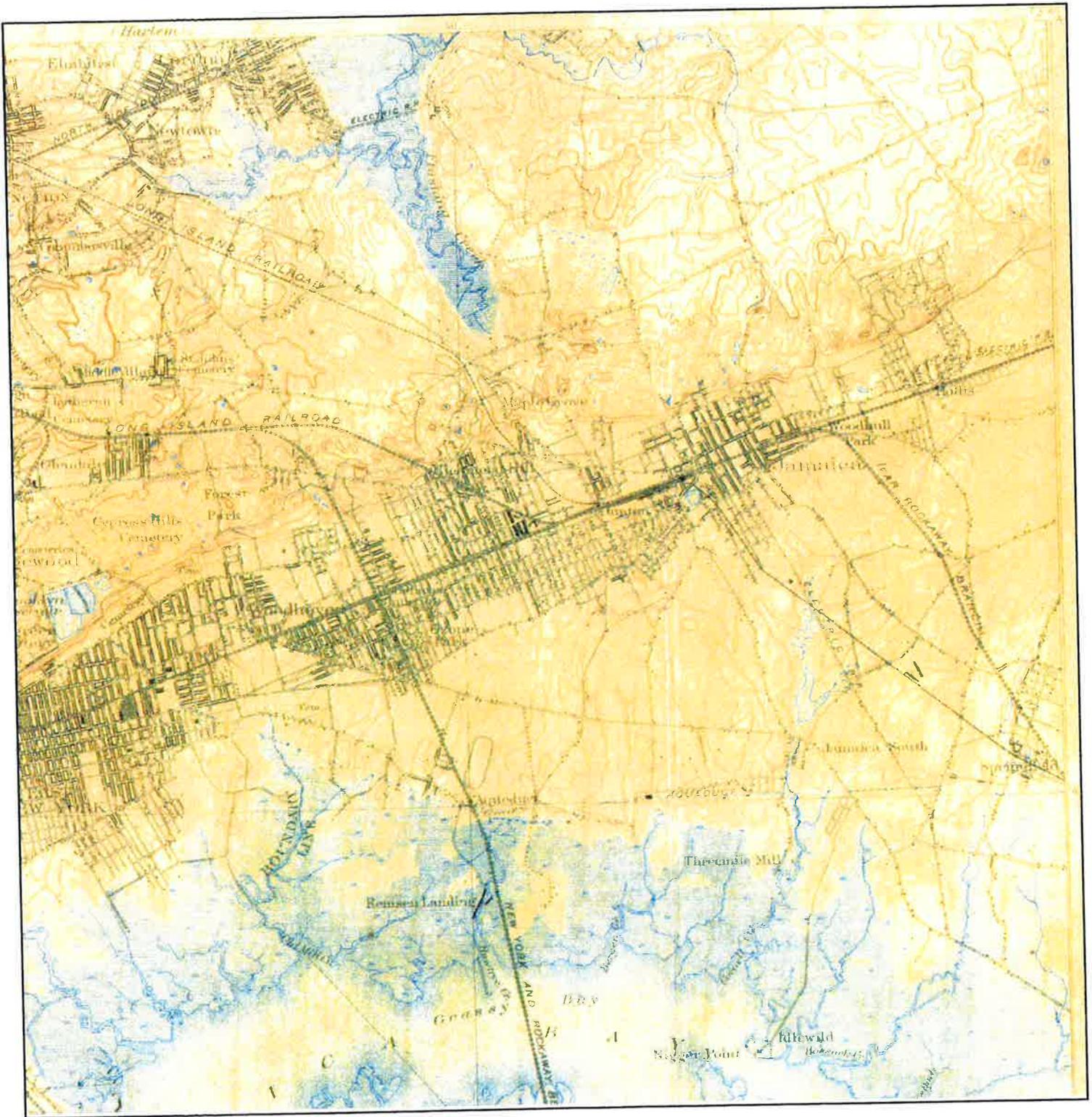
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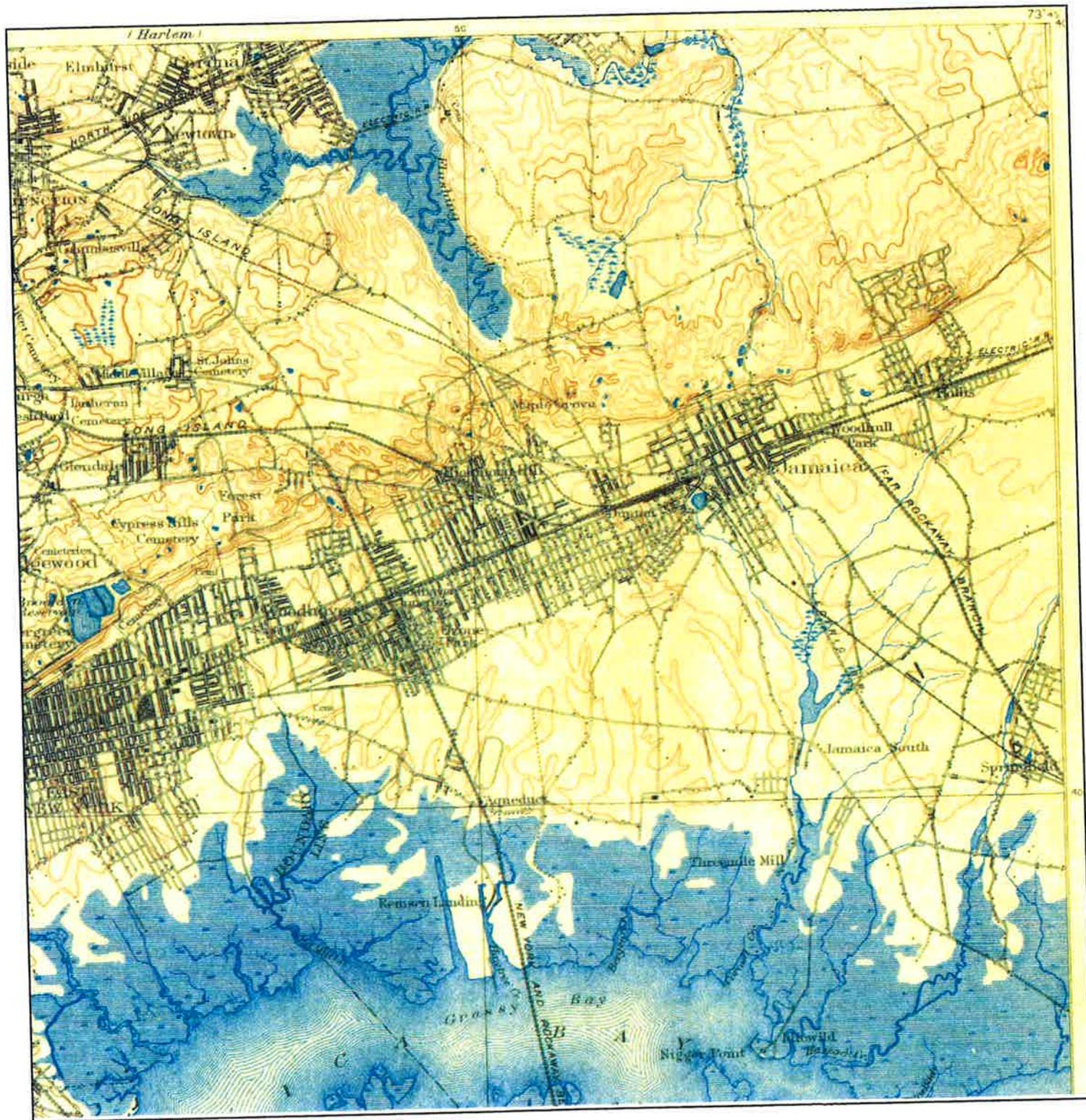
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Historical Topographic Map



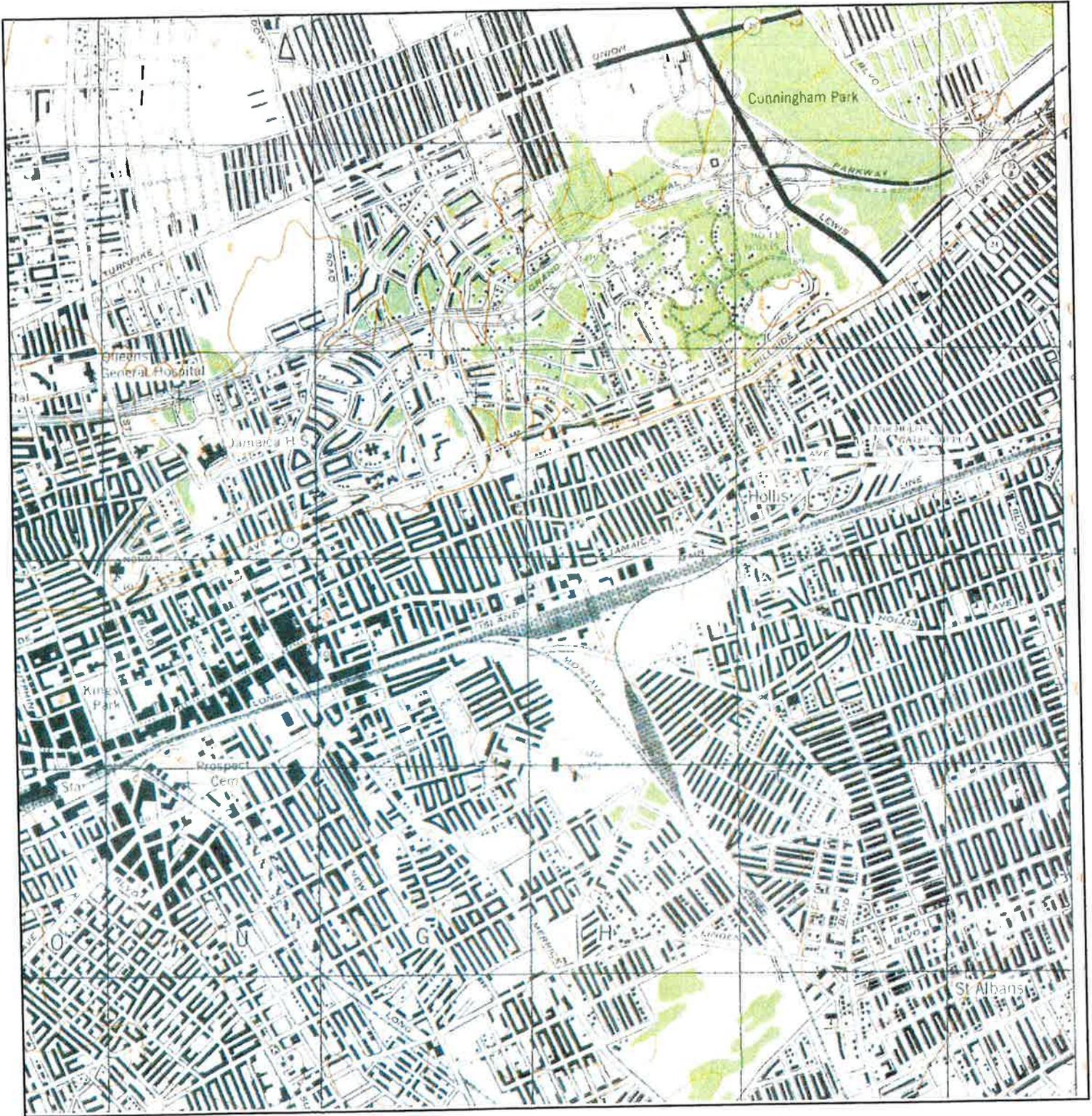
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	SERIES: 15 SCALE: 1:62500		

Historical Topographic Map



N ↑	TARGET QUAD	SITE NAME:	186-02 Jamaica Avenue	CLIENT:	Soil Mechanics Environmental
	NAME: BROOKLYN	ADDRESS:	186-02 Jamaica Avenue	CONTACT:	Daren Murphy
	MAP YEAR: 1924		Hollis, NY 11423	INQUIRY#:	3739863.4
	REVISED FROM :1900	LAT/LONG:	40.7094 / -73.7729	RESEARCH DATE:	09/25/2013
	SERIES: 15				
	SCALE: 1:62500				

Historical Topographic Map



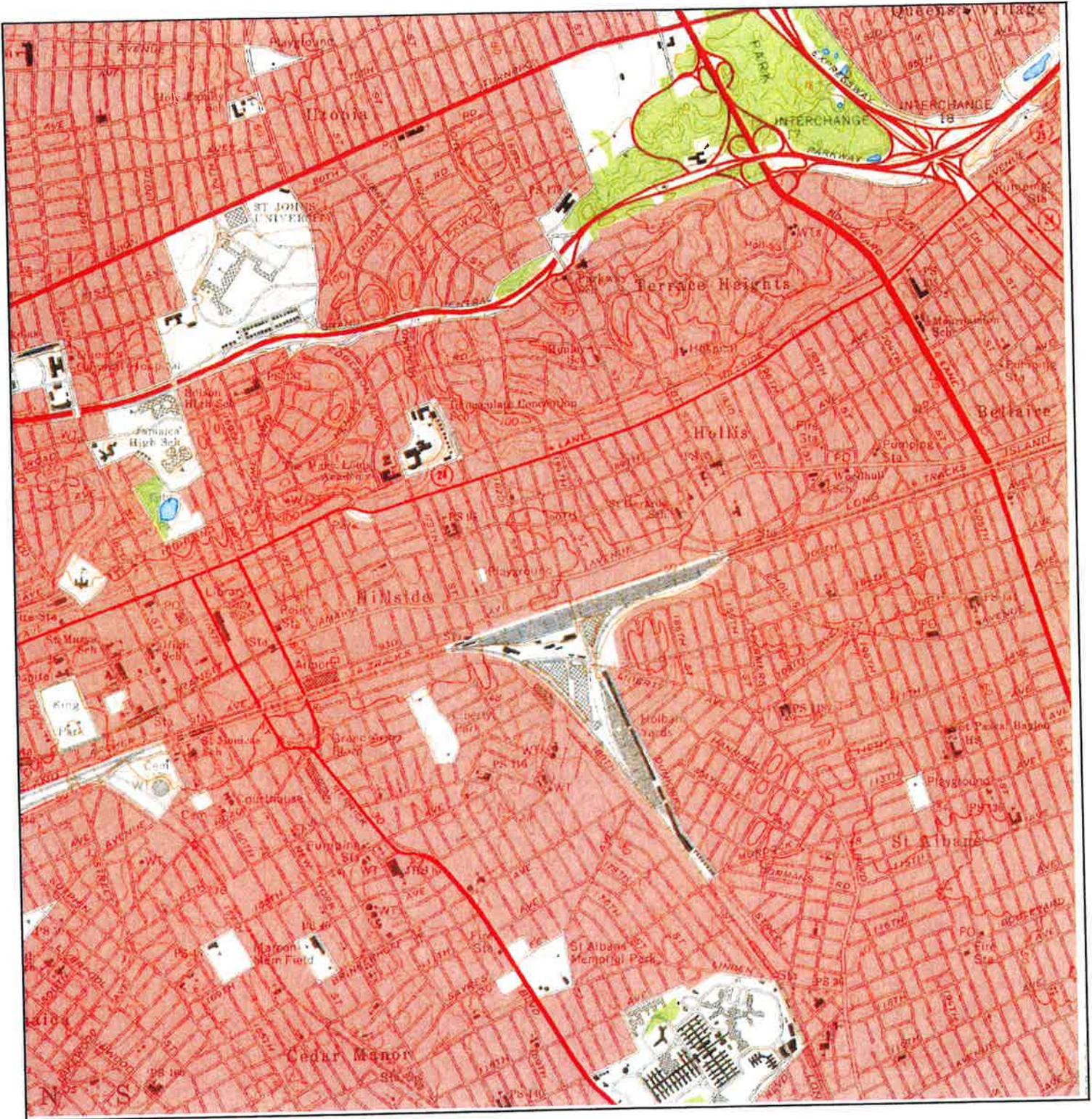
N ↑	TARGET QUAD	SITE NAME: 186-02 Jamaica Avenue	CLIENT: Soil Mechanics Environmental
	NAME: JAMAICA	ADDRESS: 186-02 Jamaica Avenue Hollis, NY 11423	CONTACT: Daren Murphy
	MAP YEAR: 1947	LAT/LONG: 40.7094 / -73.7729	INQUIRY#: 3739863.4
	SERIES: 7.5		RESEARCH DATE: 09/25/2013
	SCALE: 1:25000		

Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: JAMAICA MAP YEAR: 1957</p>	<p>SITE NAME: 186-02 Jamaica Avenue ADDRESS: 186-02 Jamaica Avenue Hollis, NY 11423 LAT/LONG: 40.7094 / -73.7729</p>	<p>CLIENT: Soil Mechanics Environmental CONTACT: Daren Murphy INQUIRY#: 3739863.4 RESEARCH DATE: 09/25/2013</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

Historical Topographic Map



N ↑	TARGET QUAD NAME: JAMAICA MAP YEAR: 1966	SITE NAME: 186-02 Jamaica Avenue ADDRESS: 186-02 Jamaica Avenue Hollis, NY 11423 LAT/LONG: 40.7094 / -73.7729	CLIENT: Soil Mechanics Environmental CONTACT: Daren Murphy INQUIRY#: 3739863.4 RESEARCH DATE: 09/25/2013
	SERIES: 7.5 SCALE: 1:24000		

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	186-02 Jamaica Avenue	CLIENT:	Soil Mechanics Environmental
	NAME: JAMAICA	ADDRESS:	186-02 Jamaica Avenue	CONTACT:	Daren Murphy
	MAP YEAR: 1979		Hollis, NY 11423	INQUIRY#:	3739863.4
	PHOTOREVISIED FROM :1966	LAT/LONG:	40.7094 / -73.7729	RESEARCH DATE:	09/25/2013
	SERIES: 7.5				
SCALE: 1:24000					

Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: JAMAICA MAP YEAR: 1994</p>	<p>SITE NAME: 186-02 Jamaica Avenue ADDRESS: 186-02 Jamaica Avenue Hollis, NY 11423 LAT/LONG: 40.7094 / -73.7729</p>	<p>CLIENT: Soil Mechanics Environmental CONTACT: Daren Murphy INQUIRY#: 3739863.4 RESEARCH DATE: 09/25/2013</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

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NYC Department of Buildings
Property Profile Overview

186-02 JAMAICA AVENUE
JAMAICA AVENUE 186-02 - 186-02

QUEENS 11423
Health Area : 3510
Census Tract : 444
Community Board : 412
Buildings on Lot : 1

BIN# 4220568
Tax Block : 10352
Tax Lot : 108
Condo : NO
Vacant : NO

- [View DCP Addresses...](#)
- [Browse Block](#)
- [View Zoning Documents](#)
- [View Challenge Results](#)
- [Pre - BIS PA](#)
- [View Certificates of Occupancy](#)

Cross Street(s): 186 STREET

DOB Special Place Name:

DOB Building Remarks:

Landmark Status:

Special Status: N/A

Local Law: NO

Loft Law: NO

SRO Restricted: NO

TA Restricted: NO

UB Restricted: NO

Little 'E' Restricted: HAZMAT

Grandfathered Sign: NO

Legal Adult Use: NO

City Owned: NO

Additional BINs for Building: NONE

Additional Designation(s):
IBZ - INDUSTRIAL BUSINESS ZONE
JAM - JAMAICA PLAN AREA

Special District: UNKNOWN

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. [Click here for more information](#)

Department of Finance Building Classification: G9-GARAGE/GAS STAT'N

Please Note: The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open
Complaints	1	0
Violations-DOB	1	0
Violations-ECB (DOB)	0	0
Jobs/Filings	3	
ARA / LAA Jobs	0	
Total Jobs	3	
Actions	2	

- [Elevator Records](#)
- [Electrical Applications](#)
- [Permits In-Process / Issued](#)
- [Illuminated Signs Annual Permits](#)
- [Plumbing Inspections](#)
- [Open Plumbing Jobs / Work Types](#)
- [Facades](#)
- [Marquee Annual Permits](#)
- [Boiler Records](#)
- [DEP Boiler Information](#)
- [Crane Information](#)
- [After Hours Variance Permits](#)

OR Enter Action Type:

OR Select from List:

AND

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



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NYC Department of Buildings
C of O PDF Listing for Property

Premises: 186-02 JAMAICA AVENUE QUEENS

BIN: [4220568](#) Block: 10352 Lot: 108

Download the [Adobe Acrobat Reader](#) if you are unable to open the PDF files

To report a problem with any of these images, please use the [CO Image Problem Form](#)

CO 400253569 11-17-93: [Q400253569.PDF](#)
JOB 400253569

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NYC Department of Buildings
Job Overview

Page: 1 of 1

Premises: 186-02 JAMAICA AVENUE QUEENS

BIN: [4220568](#) Block: 10352 Lot: 108

To start overview at new date, select Month: Day: Year:

FILE DATE	JOB #	DOC #	JOB TYPE	JOB STATUS	STATUS DATE	LIC #	APPLICANT	IN AUDIT	ZONING APPROVAL
08/17/1992	400253569	01	A1	X SIGNED OFF	11/17/1993	0048918 PE	LIOTTA		NOT APPLICABLE
CHANGE OF USE FROM LUMBER STORE TO AUTO SALES. NEW C OF O TO BE OBTAINED									
Work on Floor(s): 1									
02/25/1993	400253569	02	A1	P APPROVED	03/10/1993	0048918 PE	LIOTTA		NOT APPLICABLE
POST APPROVAL AMENDMENT FOR 01									
Work on Floor(s): 1									
07/15/1993	400253569	03	A1	P APPROVED	07/19/1993	0048918 PE	LIOTTA		NOT APPLICABLE
POST APPROVAL AMENDMENT FOR 01									
Work on Floor(s): 1									

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

THE CITY OF NEW YORK



DEPARTMENT OF BUILDINGS
CERTIFICATE OF OCCUPANCY

BOROUGH Queens

DATE: 11-17-93

NO. Q 400253569

ZONING DISTRICT M1-1

This certificate supersedes C.O. NO

THIS CERTIFIES that the new—altered—existing—building—premises located at

186-02 Jamaica Ave

Block 10352 Lot 108

CONFORMS SUBSTANTIALLY TO THE APPROVED PLANS AND SPECIFICATIONS AND TO THE REQUIREMENTS OF ALL APPLICABLE LAWS, RULES, AND REGULATIONS FOR THE USES AND OCCUPANCIES SPECIFIED HEREIN.

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOAD LBS. PER SQ. FT.	MAXIMUM NO. OF PERSONS PERMITTED	ZONING DWELLING OR ROOMING UNITS	BUILDING CODE HABITABLE ROOMS	ZONING USE GROUP	BUILDING CODE OCCUPANCY GROUP	DESCRIPTION OF USE
1	OG	9			16	C	Auto sales with no repair services and no preparation of vehicles for delivery Open parking for more than 5 motor vehicles. Comply with all applicable performance Standards in M1-1

OPEN SPACE USES _____ (SPECIFY—PARKING SPACES, LOADING BERTHS, OTHER USES, NONE)

NO CHANGES OF USE OR OCCUPANCY SHALL BE MADE UNLESS A NEW AMENDED CERTIFICATE OF OCCUPANCY IS OBTAINED
 THIS CERTIFICATE OF OCCUPANCY IS ISSUED SUBJECT TO FURTHER LIMITATIONS, CONDITIONS AND SPECIFICATIONS NOTED ON THE REVERSE SIDE.

[Signature]
 BOROUGH SUPERINTENDENT

Q-5
[Signature]
 COMMISSIONER

ORIGINAL OFFICE COPY - DEPARTMENT OF BUILDINGS COPY

THAT THE ZONING LOT ON WHICH THE PREMISES IS LOCATED IS BOUNDED AS FOLLOWS:

BEGINNING at a point on the South side of Jamaica Ave
 distant 417.53 West Hollis Ave feet from the corner formed by the intersection of
 and Jamaica Ave
 running thence _____ feet; thence _____ feet;
 thence 262.55 _____ feet; thence S 319.26 W 60.32 _____ feet;
 thence E 311/96 _____ feet; thence N 284.53 _____ feet;
 thence _____ feet; thence _____ feet;
 to the point or place of beginning.

PER ALT. No. 400253569 DATE OF COMPLETION 8-2-93 CONSTRUCTION CLASSIFICATION 3
 BUILDING OCCUPANCY GROUP CLASSIFICATION COMM HEIGHT 1 STORIES, 13 FEET

THE FOLLOWING FIRE DETECTION AND EXTINGUISHING SYSTEMS ARE REQUIRED AND WERE INSTALLED IN COMPLIANCE WITH APPLICABLE LAWS.

	None			None	
	YES	NO		YES	NO
STANDPIPE SYSTEM			AUTOMATIC SPRINKLER SYSTEM		
YARD HYDRANT SYSTEM					
STANDPIPE FIRE TELEPHONE AND SIGNALING SYSTEM					
SMOKE DETECTOR					
FIRE ALARM AND SIGNAL SYSTEM					

- STORM DRAINAGE DISCHARGES INTO:
- A) STORM SEWER B) COMBINED SEWER C) PRIVATE SEWAGE DISPOSAL SYSTEM
- SANITARY DRAINAGE DISCHARGES INTO:
- A) SANITARY SEWER B) COMBINED SEWER C) PRIVATE SEWAGE DISPOSAL SYSTEM

LIMITATIONS OR RESTRICTIONS:

BOARD OF STANDARDS AND APPEALS CAL. NO. _____

CITY PLANNING COMMISSION CAL. NO. _____

OTHERS: _____

NYC PROPERTY ASSESSMENT ROLL INFORMATION

NYC Property Assessment Roll

Land Information

Lot Size: 147.00FT X 319.00FT
 Irregular: IRREG
 Corner

Building Information

Number of Buildings: 1
 Building Size: 32.00FT X 240.00FT
 Extension: E
 Stories: 1

Assessment Information

Description	Land	Total
ESTIMATED MARKET VALUE	317,250	1,185,000
ACTUAL AV	0	533,250
ACTUAL EX AV	309,600	499,500
TRANS AV	0	0
TRANS EX AV	0	0

Taxable/Billable Assessed Value

Assessed Value
499,500

SUBJECT TO ADJUSTMENTS, YOUR 2013/14 TAXES WILL BE BASED ON

Property is assessed at the following uniform percentages of full market value, unless limited to a lesser amount by law:

- Class 1 - 6%
- Class 2 - 45%
- Class 3 - 45%
- Class 4 - 45%

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NYCProperty Assessment Roll

New York City Department of Finance
Office of the City Register

HELP
[Click help for additional instructions]
Selecting a help option will open new window

Current Search Criteria:

Borough: QUEENS
Block: 10352
Lot: 108 Unit: N/A
Date Range:
Document Class: All Document Classes

Search Results By Parcel Identifier

Search Options | [New BBL Search] | [Edit Current Search] | [View Tax Map] | [Print Index]

Records 1 - 6 << previous next >> Max Rows 10

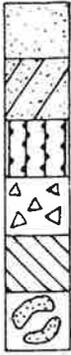
View	Reel/Pg/File	CRFN	Lot	Partial	Doc Date	Recorded / Filed	Document Type	Pages	Party1	Party2	Party 3/ Other	More Party 1/2 Names	Corrected/ Remarks	Doc Amount
DET IMG		2006000299350	108	ENTIRE LOT	2/14/2006	5/30/2006 4:43:29 PM	SATISFACTION OF MORTGAGE	3	ED DI BENEDETTO, INC.	S.B.J. & E. HOLDING COMPANY, C/O ANDREW P. HOFFMAN				0
DET IMG	3757/962		108	ENTIRE LOT	12/30/1985	1/7/1994	AGREEMENT	5	ED DIBENEDETTO INC	JAMAICA LUMBER CO IN				0
DET IMG	2249/2193		108	ENTIRE LOT	12/30/1985	12/10/1986	DEED	2	JAMAICA LUMBER CO INC	ED DI BENEDETTO INC				0
DET IMG	2061/618		108	ENTIRE LOT	12/30/1985	4/7/1986	ASSIGNMENT, MORTGAGE	2	JAMAICA LUMBER CO INC	S.B.J. & E. HOLDING CO.				0
DET IMG	2042/1400		108	ENTIRE LOT	12/30/1985	3/17/1986	MORTGAGE	6	ED DI BENEDETTO INC	JAMAICA LUMBER CO INC				900,000
DET IMG	2042/1398		108	ENTIRE LOT	12/30/1985	3/17/1986	DEED	2	JAMAICA LUMBER CO INC.	ED DI BENEDETTO, INC.				0

Search Options | New Parcel Identifier Search | Edit Current Search | View Tax Map

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APPENDIX B
GEOTECHNICAL REPORT

**SUBSOIL
INVESTIGATIONS**



SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783
(516) 221-2333 • FAX (516) 221-0254

October 18, 2013

SNL Storage
3701 Henry Hudson Parkway, #4F
Bronx, NY 10463
Att: Ari Goldman

Re: 186-02 Jamaica Ave.
Jamaica, NY
Our Job #13-686

Gentlemen:

Forwarded herewith are copies of the boring results for drilling completed at the above referenced site.

Also enclosed are TR-1 and TR-4 forms for filing with the Building Department.

The purpose of the subsurface investigation was to determine the nature and extent of the underlying soil deposits and determine the structural engineering characteristics of the soil at the site. A total of seven (7) test borings were drilled at the above referenced site at the locations shown on our Boring Location Plan. Soil samples were obtained using a CME automatic trip hammer. The borings were advanced using hollow stem auger casing. Sample recovery was obtained using a 2" diameter, 2'0" long split spoon sampler was advanced into the subsurface by the use of an automatic 140 lb. hammer with a 30" drop. From the drops of the hammer, blow counts required to advance the split spoon sampler over each 6" intervals were recorded and is shown on the boring logs. Continuous split spoon samples were taken for the top 6 feet then every 5 feet thereafter to the final depth. A written description of the recovered soil samples per our geologist's visual identification of same is also presented on the logs.

The CME automatic hammer operates with an efficiency of approximately 90%. The original conventional use of rope, cathead and drop weight, on the other hand, operates with an efficiency of approximately 60%. As a consequence, the standard penetration test results obtained using the CME auto-hammer are on the order of two-thirds the value that would have been obtained had the original rope and cathead method been used. This is significant if you are using design charts for soil strength parameters based on historical data associated with the rope and cathead method. If so, you should adjust our data accordingly.

SNL Storage
Att: Ari Goldman

October 18, 2013
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Our investigation revealed that the areas drilled are blanketed by from 2 ft. to 8 ft. of asphalt and soil fill, underlain, generally, by a naturally bedded moderately dense coarse to fine sand formation with traces of silt and gravel extending to the deepest depths drilled.

Natural ground water was encountered within the boreholes at depths ranging from 17'3" to 19'4" below existing grade at the time the work was done.

All soils below the fill will satisfactorily support foundation loads of 2 tons per square foot.

Use of this bearing capacity will result in total settlements of less than 1/4" and differential settlements of less than 1/8" with a total settlement of 1/16" with the majority occurring during the construction phase.

All below grade walls should be designed to resist lateral earth pressures which are imposed by adjacent soils, in addition to any surcharge loads due to floor slabs, etc. All walls which are free to rotate slightly should be designed to resist lateral earth pressures assumed to have an active earth pressure. All walls which are restrained and not free to rotate should be designed assuming an at rest earth pressure. The on-site sandy soils may be assumed to act as a fluid having equivalent fluid weights of 30 lb./cu.ft. active pressure, 60 lb./cu.ft. at rest, and 300 lb./cu.ft. for passive earth pressures.

We have been informed that the building is to be slab on grade. Lateral earth pressures may not be required.

We have not been informed of the finished floor elevation.

We recommend removal of the loose soil rubble fill and densifying the soils to 95% of its Modified Proctor density at optimum moisture content per ASTM D-1557 prior to placing the slab.

Frost penetration in this area is 4 feet. All exterior foundations must have a minimum of 4 foot of cover.

With respect to seismic, the site is classified as Site Class "D" per the New York City Building Code.

With respect to liquefaction, the site is classified as Category "C", liquefaction unlikely.

SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783
(516) 221-2333 • FAX (516) 221-0254

SNL Storage
Att: Ari Goldman

October 18, 2013
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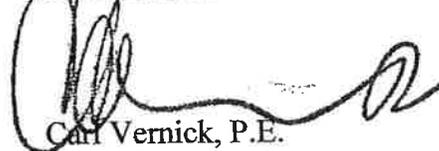
Soil samples recovered during drilling operations will be stored in our lab for a period of 30 days after which they will be destroyed. During this period we will deliver these samples to any prescribed location upon request.

If after you examine the enclosed you have any further questions, please feel free to call and discuss them with us.

Billing is enclosed.

Very truly yours,

SOIL MECHANICS DRILLING CORP.



Carl Vernick, P.E.
President

CV:mlf
Encls.

