202 NORTH 10TH STREET

BROOKLYN, NEW YORK 11211

Remedial Investigation Report

NYC VCP Site Number: 15CVCP101K

OER Site Number: 15EHAZ333K

Prepared for:

Patoma Partners
144 North 7th Street Suite 408
Brooklyn NY 11229

Prepared by:

EBC
Environmental Business Consultants

1808 Middle Country Road
Ridge, NY 11961

MARCH 2015

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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	Photo-ionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Kimberly Somers, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Redevelopment Project located 202 N 10th Street, Brooklyn, NY, (OER Project Number 15EHAZ333K). 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.

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 202 N 10th Street in the Williamsburg section of Brooklyn, New York, and is currently identified as Block 2306, Lot 9 on the New York City Tax Map. Figure 1 shows the Site location. Lot 9 is a rectangular shaped lot consisting of 50 feet of street frontage on N 10th Street and extending to a depth of approximately 100 feet for a total of approximately 5,000 ft^2. The Site is located on the south side of North 10^{th} Street between Driggs Avenue and Roebling Street and is bordered by two mixed use commercial and residential buildings, a commercial building, and an industrial building to the northwest (487 to 481 Driggs Avenue), a residential multi-family elevator building to the southeast (208 N 10th Street); a mixed residential and commercial use building to the northeast, across N 10th Street (214 N 11 Street); and a residential multi-family elevator building (205 N 9th Street) to the southwest. A map of the site boundary is shown on Figure 2.

The Site currently is developed with a vacant one-story warehouse.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of the redevelopment of the existing structure into two, 4-story mixed use (commercial and residential) buildings with a mezzanine level and partial cellars. Each cellar will contain a retail space, mechanical rooms, stairwell and an elevator pit. The first floor will consist of two retail spaces with bi-level space (sunken level and mezzanine) for the rear 50ft portion of the buildings, and the residential entrances. The first floor mezzanine will consist of 1,121 ft^2 of open space, two stairwells and a terrace. The second, third and fourth floors will consist of apartments.

The cellar level will require excavation to a depth of approximately 10 feet below grade across the first 36 feet of the Site from North 10^{th} Street. The first floor sunken levels in the rear 50'

portion of the buildings will require excavation of at least 3 feet below grade. An estimated 490 cubic yards (1,095 tons) of soil will require excavation for the new building's cellar and sunken first floor level. The buildings will not be equipped with any parking areas. The water table is present at a depth of approximately 7 feet below grade, and will be encountered during excavation.

Layout of the redevelopment plans for the cellar and first floor is presented in Figure 3. The current zoning designation is M1-2/R6A. The proposed use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

A Phase I Screening was competed by EBC in 2015. The following Site history was established based on historic Sanborn maps:

The Site is identified on Sanborn maps as 208-210 N 10th Street. According to the Sanborn maps, the Site appears to have been originally developed sometime between 1887 and 1905 with two, one-story structures identified as sheds with an office, and an attached two-story structure in the southern rear portion of the lot. The Site appears to have been redeveloped in 1970 with the currently existing, one-story industrial warehouse building (no basement). The Site was identified on the Sanborn maps as a private garage (1951, 1965), an auto repair use (1978) and a warehouse (2007).

The Site address (202 N 10th Street and 208-210 N 10th Street) is listed in the historical city directories with commercial uses, “Progressive Kitchen Equipment Co. Inc.” (1945, 1949, 1960, 1965, 1970, 1973, 1976, 1997), “Adelphia Container Corp.” (1985), “Tai Hung Trading, Inc.” (1997), “Barclay Business Archives” (1992, 1997), “Montrose Equipment Sales Inc.” (2005), “Eurama Food” (2005), “Racall Total Information Management” (2008), and “NY Standard Mechanical” (2013).

No Recognized Environmental Conditions (RECs) were identified for the property; however, the following environmental issue was identified for the Site:

Minor Staining

Some minor staining was observed on the concrete warehouse floor during the inspection. The staining appeared to have been associated with automotive fluids. The staining observed in the warehouse is considered a *de minimus* issue. The concrete floor was observed to be in general good condition; therefore, the minor amount of staining is not anticipated to be a significant environmental concern.

The Site (202 N 10th Street) has been assigned an E-designation (E-138) for Hazmat as part of the Greenpoint-Williamsburg rezoning action completed by the City in May 2005 (CEQR number 04DCP003K).

Areas of Concern (AOCs) identified for the Site include:

1. The presence of historic fill material to depths as great as 5 feet;
2. The presence of a suspect floor drain; and
3. Past use of the Site for auto repair.

Summary of the Work Performed under the Remedial Investigation

EBC performed the following scope of work at the Site in July of 2014 and February of 2015:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.); and
2. Installed nine soil borings across the Site, and collected fourteen soil samples for chemical analysis from the soil borings to evaluate soil quality; and
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected six groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed four soil gas implants and collected four soil gas samples for chemical analysis.

Summary of Environmental Findings

1. The elevation of the Site is approximately 14 feet.
2. Depth to groundwater is estimated to be approximately 7 feet below sidewalk grade.
3. Groundwater flow is generally west-northwest.
4. Depth to bedrock is at the Site is greater than 100 feet.

5. The stratigraphy of the Site consists of 3 to 5 feet of historic fill, underlain by native brown sand.
6. Soil/fill samples results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. No pesticides or PCBs were detected in any soil samples. VOCs including acetone (maximum 240 µg/Kg), benzene (maximum 1,000 µg/Kg), methyl ethyl ketone (maximum 150 µg/Kg), methylene chloride (maximum 91 µg/Kg) and toluene (maximum 1,600 µg/Kg) were detected above Unrestricted Use SCOs, but under Restricted Residential Use SCOs. PCE and TCE were not detected in any sample. SVOCs including benz(a)anthracene (maximum of 100,000 µg/kg), benzo(a)pyrene (max. of 78,000 µg/kg), benzo(b)fluoranthene (maximum of 86,000 µg/kg), benzo(k)fluoranthene (maximum of 27,000 µg/kg), chrysene (maximum of 100,000 µg/kg), dibenz(a,h)anthracene (maximum 13,000 µg/Kg), fluoranthene (maximum 200,000 µg/Kg), indeno(1,2,3-cd)pyrene (maximum of 43,000 µg/kg), phenanthrene (maximum 240,000 µg/Kg), and pyrene (maximum 200,000 µg/Kg), exceeded Restricted Residential SCOs. Several metals including arsenic (maximum 69.5 mg/Kg), copper (maximum of 841 mg/kg), lead (maximum of 522 mg/kg), and mercury (maximum of 19.8 mg/kg) exceeded Restricted Residential Use SCOs. Overall, the soil results were consistent with data identified at sites with historic fill material in NYC, and the VOC and SVOC hotspot which is indicative of petroleum.
7. Groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater samples collected during the investigation showed no pesticides at detectable concentrations and no PCBs above GQS in any sample. Several VOCs were detected at trace amounts, with the exception of methyl t-butyl ether (MTBE) at 420 µg/L, which exceeded NYSDEC Part 703.5 Groundwater Quality Standards (GQS). Six SVOCs were detected above GQS, consisting of the polycyclic aromatic hydrocarbons (PAHs) benz(a)anthracene (maximum 2.3 µg/L), benzo(a)pyrene (maximum 2.2 µg/L), benzo(b)fluoranthene (maximum 1.4 µg/L), benzo(k)fluoranthene (maximum 0.23 µg/L), chrysene (maximum 2.9 µg/L), and indeno(1,2,3-cd)pyrene (0.56 µg/L). Two metals, manganese (maximum 0.594 mg/L),

and sodium (maximum 78.3 mg/L) (dissolved) exceeded their respective GQS. Free product was observed in one of the groundwater monitoring wells (GW2).

8. Soil vapor results collected during the RI were compared to the compounds listed in New York State Department of Health (NYSDOH) Vapor Intrusion Matrices located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006. Soil vapor samples collected during the RI showed petroleum related VOCs (BTEX) at low concentrations, ranging from 38.41 µg/m^3 to 110.35 µg/m^3. Chlorinated VOCs (CVOCs) trichloroethylene (TCE) and 1,1,1-trichloroethane were not detected in any of the soil gas samples. CVOCs carbon tetrachloride (max 0.38 µg/m^3) and tetrachloroethene (PCE) (max 11.1 µg/m^3) were both detected at concentrations below the monitoring/ mitigation range established by NYSDOH.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Patoma Partners has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.11-acre Site located at 202 North 10th Street in the Williamsburg section of Brooklyn, New York. The existing building at the Site will be redeveloped as two, 4-story mixed use (commercial and residential) apartment buildings. The portion of the RI work conducted on the Site was conducted on July 19, 2014 and February 11, 2015. 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 202 N 10th Street in the Williamsburg section of Brooklyn, New York, and is currently identified as Block 2306, Lot 9 on the New York City Tax Map. Figure 1 shows the Site location. Lot 9 is a rectangular shaped lot consisting of 50 feet of street frontage on N 10th Street and extending to a depth of approximately 100 feet for a total of approximately 5,000 ft^2. The Site is located on the south side of North 10^{th} Street between Driggs Avenue and Roebling Street and is bordered by two mixed use commercial and residential buildings, a commercial building, and an industrial building to the northwest (487 to 481 Driggs Avenue), a residential multi-family elevator building to the southeast (208 N 10th Street); a mixed residential and commercial use building to the northeast, across N 10th Street (214 N 11 Street); and a residential multi-family elevator building (205 N 9th Street) to the southwest. A map of the site boundary is shown on Figure 2.

The Site currently is developed with a vacant one-story warehouse.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of the redevelopment of the existing structure into two, 4-story mixed use (commercial and residential) buildings with a mezzanine level, and partial cellars. Each cellar will contain a retail space, mechanical rooms, stairwell and an elevator

pit. The first floor will consist of two retail spaces with bi-level space (sunken level and mezzanine) for the rear 50ft portion of the buildings, and the residential entrances. The first floor mezzanine will consist of 1,121 ft^2 of open space, two stairwells and a terrace. The second, third and fourth floors will consist of apartments.

The cellar level will require excavation to a depth of approximately 10 feet below grade across the first 36 feet of the Site from North 10^{th} Street. The first floor sunken levels in the rear 50' portion of the buildings will require excavation of at least 3 feet below grade. An estimated 490 cubic yards (1,095 tons) of soil will require excavation for the new building's cellar and sunken first floor bi-level area. The buildings will not be equipped with any parking areas. The water table is present at a depth of approximately 7 feet below grade, and will be encountered during excavation.

Layout of the redevelopment plans for the cellar and first floor is presented in Figure 3. The current zoning designation is M1-2/R6A. The proposed use is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

The area immediately surrounding Site consists of mixed use commercial and residential buildings, commercial and industrial buildings to the northwest, a residential multi-family building to the southeast, a mixed residential and commercial use building to the northeast and a residential multi-family building to the southwest. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, schools or daycare facilities are located within a 250 ft radius of the Site.

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Surrounding Property Usage

Direction	Property Description
Northwest – Adjacent Property	Block 2306, Lots 5 to 8 - 487 to 481 Driggs Avenue Two 2,500 ft^2 lots (Lot 5 and 7) each developed with one two-story mixed use commercial and residential building, a 2,500 ft^2 lot (Lot 6) developed with a one-story commercial building, and a 2,500 ft^2 lot (Lot 8) developed with a one-story industrial building.
Southeast – Adjacent Property	Block 2306, Lot 15 - 208 N 10th Street A 17,600 ft^2 lot with a 5-story residential multi-family elevator building.
Northeast – Across N 10th Street	Block 2299, Lot 7501 - 214 N 11th Street A 38,000 ft^2 lot with a mixed use residential and commercial building.
Southwest – Adjacent property.	Block 2306, Lot 1 - 205 N 9th Street A 22,500 ft^2 lot developed with residential multi-family elevator building..

2.0 SITE HISTORY

2.1 Past Uses and Ownership

A Phase I Screening was competed by EBC in 2015. The following Site history was established based on historic Sanborn maps: EBC was able to establish a history for the property dating back to 1887. The Site was identified on Sanborn maps as 208-210 N 10th Street. According to the Sanborn maps, the Site appears to have been originally developed sometime between 1887 and 1905 with two, one-story structures identified as sheds with an office, and an attached two-story structure in the southern rear portion of the lot. The Site appears to have been redeveloped in 1970 with the currently existing, one-story industrial warehouse building (no basement). The Site was identified on the Sanborn maps as a private garage (1951, 1965), an auto repair use (1978) and a warehouse (2007).

The Site address (202 N 10th Street and 208-210 N 10th Street) is listed in the historical city directories with several commercial uses including, “Progressive Kitchen Equipment Co. Inc.” (1945, 1949, 1960, 1965, 1970, 1973, 1976, 1997), “Adelphia Container Corp.” (1985), “Tai Hung Trading, Inc.” (1997), “Barclay Business Archives” (1992, 1997), “Montrose Equipment Sales Inc.” (2005), “Eurama Food” (2005), “Racall Total Information Management” (2008), and “NY Standard Mechanical” (2013).

The Site (202 N 10th Street) has been assigned an E-designation (E-138) for Hazmat as part of the Greenpoint-Williamsburg rezoning action completed by the City in May 2005 (CEQR .04DCP003K).

The Phase I Sanborn Maps are presented in Attachment A.

2.2 Previous Investigations

EBC is not aware of any previous investigations conducted at the Site.

2.3 Site Inspection

Mr. Kevin Waters of EBC performed a site inspection on January 20, 2015, beginning at approximately 12:00 pm. The reconnaissance included a visual inspection of the Site, the

sidewalk in front of the building and the exterior of adjacent properties. At the time of the inspection, the Site consisted of a vacant warehouse with a roll-up garage door, a small office and a bathroom. The Site is slab-on grade and does not contain a basement. The building utilizes municipal water and is connected to the municipal sewer system. A floor drain and a cleanout is present in the warehouse. Water stains were visible on the ceiling tile of the office; no mold was observed. The building utilizes natural gas for heating purposes. No evidence of aboveground or underground storage tanks was observed during the site inspection. Some minor staining was observed on the concrete warehouse floor during the inspection. The staining appeared to have been associated with automotive fluids. The concrete floor was observed to be in general good condition with no significant cracks or fractures.

2.4 Areas of Concern

Areas of Concern (AOCs) identified for the Site include:

1. The presence of historic fill material to depths as great as 5 feet.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Kimberly Somers.

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.

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4.0 REMEDIAL INVESTIGATION ACTIVITIES

EBC performed the following scope of work at the Site in December of 2014:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed nine soil borings across the Site, and collected fourteen soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected six groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed four soil gas implants and collected three soil gas samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical investigation was not performed as a part of this assessment.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

On July 19, 2014, four soil borings (B1 through B4) were installed in the approximate locations shown on Figure 5. The four soil boring locations were chosen to gain representative soil quality information across the Site. For all of the four soil borings, soil samples were collected continuously from grade to a final depth of 16 feet below existing grade using a four-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photoionization detector (PID) and visually inspected for evidence of contamination. No PID readings above background concentrations were detected. Two soil samples were retained from each soil boring, representing a shallow interval, 1-3, 2-4, or 3-5 feet below grade, and a deeper interval 8-10, 13-14, or 14-16 feet below grade.

On February 11, 2014, five soil borings (B5 through B9) were installed in the approximate locations also shown on Figure 5. The five soil boring locations were chosen to gain representative soil quality information across the Site. For all of the five soil borings, soil samples were collected continuously from grade to a final depth of 15 feet below existing grade using a five-foot steel macro-core sampler with acetate liners and Geoprobe direct-push

equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photoionization detector (PID) and visually inspected for evidence of contamination. No PID readings above background concentrations were detected. Two soil samples were retained from each soil boring, representing the shallow interval, 0 to 2 feet below grade, and the interval 11 to 13 feet below grade in borings B5 through B7, and the interval 4 to 4 feet below grade in borings B8 and B9.

Soil boring details are provided in Table 1. Boring logs were prepared by a Qualified Environmental Professional and are attached in Attachment B.

Groundwater Monitoring Well Construction

Three temporary 1-inch diameter PVC monitoring wells (MW1 through MW3) were installed across the site with 20 feet of 0.010 slot screen at MW2 and 10 feet of 0.010 slot screen at MW1 and MW3, set to intersect the water table. Since groundwater was encountered at approximately 5 feet below grade, monitoring wells were installed to a depth of 15 feet. Monitoring well sampling details are provided in Table 1. Monitoring well locations are shown in Figure 5.

Survey

Soil borings, monitoring wells and soil gas sampling locations were located to the nearest 0.10 foot with respect to two or more permanent site features.

Water Level Measurement

Approximate groundwater level measurements were collected using a Solinst oil/water interface meter to ensure the surface of the water table was within the screened section of the monitoring well. Free product was noted in GW2. The thickness of the product layer in this well was not measured. Water level data is included in Table 1.

4.3 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 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.

Soil Sampling

Ten 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 2, 3, 4 and 5. Figure 5 shows the location of samples collected during this RI. Laboratories and analytical methods for soil samples collected during the RI are shown below.

All soil samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis with proper chain of custody to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). All soil samples retained from the intervals 0 to 2 feet, 4-6 feet and 11 to 13 feet below grade were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082, and target analyte list (TAL) metals.

Groundwater Sampling

Three groundwater samples and one duplicate sample were collected for chemical analysis during this RI. Groundwater samples were collected from the monitoring wells utilizing dedicated polyethylene tubing and a peristaltic pump. Groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and TAL metals. Black-stained purge water and an oil sheen indicating free product was noted in one well, GW-2. Groundwater sample collection data is reported in Tables 6 through 9. Sampling logs with information on purging and sampling of groundwater monitoring wells are included in Appendix C. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Four soil vapor probes were installed and four soil vapor samples were collected for chemical analysis during this RI. The soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 10, and the soil vapor sampling logs are included in Attachment D. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

The soil vapor probes were installed using Geoprobe™ equipment and tooling. The approximate location of each of the soil vapor probes is shown on Figure 5. The vapor probes that were installed were the Geoprobe™ Model AT86 series, which are constructed of a 6-inch length of double woven stainless steel wire. The soil vapor probes were installed to a depth of approximately 5 to 6 feet below grade. Each probe was attached to ¼ inch polyethylene tubing which extended approximately 18 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the probe to a height of approximately 1 foot above the bottom of the probe. The remainder of the borehole was sealed with a bentonite slurry to the surface.

The soil vapor probes were installed on February 11, 2015 and sampled on February 13, 2015. Prior to sampling, each sampling location was tested to ensure a proper surface seal had been obtained. In accordance with NYSDOH guidance (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005), a tracer gas (helium) was used as a quality assurance/quality control device to verify the integrity of the sampling point seal prior to collecting the samples. Prior to testing and collecting samples, the surface immediately surrounding the polyethylene tubing of the vapor implant was sealed using a 1 foot ft by 1 ft square sheet of 2 mil HDPE plastic firmly adhered to a wetted layer of granular bentonite. The seal was then tested by enriching the air space above the seal with a tracer gas (helium) while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-Gas Detector) for a minimum of 15 minutes. The tracer gas test procedure was employed at all three soil vapor sampling locations. No surface seal leaks were observed at any of the locations.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the surface tube of each of the three vapor implants. Prior to initiating sample collection, sample identification, canister number, date and start time were recorded on tags attached to each canister and in a bound field note book. Sampling then proceeded by fully opening the flow control valve on each canister in turn. Immediately after opening the flow control valve on a canister, the initial vacuum (inches of mercury) was recorded in the field book and on the sample tag. When the vacuum level in the canister was between 5 and 8 inches of mercury (approx 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

The soil gas sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on a sample log sheet (Attachment D). Samples were submitted to Phoenix for laboratory analysis of VOCs EPA Method TO-15.

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 Phoenix Environmental Laboratories
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories
Chemical Analytical Methods	Soil and groundwater analytical methods: • 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); Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 10. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Attachment E.

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5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The stratigraphy of the Site surrounding the existing foundation slab from the surface down consists of 5 feet of historic fill, underlain by native brown silty sand.

Hydrogeology

A table of water level data for the monitoring wells is included in Table 1. The average depth to groundwater is 7 feet. Groundwater flow is generally east.

5.2 Soil Chemistry

Soil/fill samples results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. No pesticides or PCBs were detected in any soil samples. VOCs including acetone (maximum 240 µg/Kg), benzene (maximum 1,000 µg/Kg), methyl ethyl ketone (maximum 150 µg/Kg), methylene chloride (maximum 91 µg/Kg) and toluene (maximum 1,600 µg/Kg) were detected above Unrestricted Use SCOs, but under Restricted Residential Use SCOs. PCE and TCE were not detected in any sample. SVOCs including benz(a)anthracene (maximum of 100,000 µg/kg), benzo(a)pyrene (max. of 78,000 µg/kg), benzo(b)fluoranthene (maximum of 86,000 µg/kg), benzo(k)fluoranthene (maximum of 27,000 µg/kg), chrysene (maximum of 100,000 µg/kg), dibenz(a,h)anthracene (maximum 13,000 µg/Kg), fluoranthene (maximum 200,000 µg/Kg), indeno(1,2,3-cd)pyrene (maximum of 43,000 µg/kg), phenanthrene (maximum 240,000 µg/Kg), and pyrene (maximum 200,000 µg/Kg), exceeded Restricted Residential SCOs. Several metals including arsenic (maximum 69.5 mg/Kg), copper (maximum of 841 mg/kg), lead (maximum of 522 mg/kg), and mercury (maximum of 19.8 mg/kg) exceeded Restricted Residential Use SCOs. Overall, the soil results were consistent with data identified at sites with historic fill material in NYC, and the VOC and SVOC hotspot which is indicative of petroleum.

5.3 Groundwater Chemistry

Groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater samples collected during the investigation

showed no pesticides at detectable concentrations and no PCBs above GQS in any sample. Several VOCs were detected at trace amounts, with the exception of methyl t-butyl ether (MTBE) at 420 µg/L, which exceeded NYSDEC Part 703.5 Groundwater Quality Standards (GQS). Six SVOCs were detected above GQS, consisting of the polycyclic aromatic hydrocarbons (PAHs) benz(a)anthracene (maximum 2.3 µg/L), benzo(a)pyrene (maximum 2.2 µg/L), benzo(b)fluoranthene (maximum 1.4 µg/L), benzo(k)fluoranthene (maximum 0.23 µg/L), chrysene (maximum 2.9 µg/L), and indeno(1,2,3-cd)pyrene (0.56 µg/L). Two metals, manganese (maximum 0.594 mg/L), and sodium (maximum 78.3 mg/L) (dissolved) exceeded their respective GQS.

5.4 Soil Vapor Chemistry

Soil vapor results collected during the RI were compared to the compounds listed in New York State Department of Health (NYSDOH) Vapor Intrusion Matrices located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006. Soil vapor samples collected during the RI showed petroleum related VOCs (BTEX) at low concentrations, ranging from 38.41 µg/m^3 to 110.35 µg/m^3. Chlorinated VOCs (CVOCs) trichloroethylene (TCE) and 1,1,1-trichloroethane were not detected in any of the soil gas samples. CVOCs carbon tetrachloride (max 0.38 µg/m^3) and tetrachloroethene (PCE) (max 11.1 µg/m^3) were both detected at concentrations below the monitoring/ mitigation range established by NYSDOH.

5.4 Prior Activity

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

5.5 Impediments to Remedial Action

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

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TABLES

Table 1
202 N 10th Street,
Brooklyn, NY
Soil Boring / Well Information

SAMPLE ID	Date	Total Depth (ft)	Diameter (in)	Construction Materials	Screen Length (ft)	Survey Reading	Casing Elevation	DTW 2/12/2015	GW ELV 2/12/2015
SB1	7/19/2014	16	2	Hollow Stem Auger	-	-	-	-	-
SB2	7/19/2014	16	2	Hollow Stem Auger	-	-	-	-	-
SB3	7/19/2014	16	2	Hollow Stem Auger	-	-	-	-	-
SB4	7/19/2014	16	2	Hollow Stem Auger	-	-	-	-	-
SB5	7/19/2014	15	2	Hollow Stem Auger	-	-	-	-	-
SB6	7/19/2014	15	2	Hollow Stem Auger	-	-	-	-	-
SB7	7/19/2014	15	2	Hollow Stem Auger	-	-	-	-	-
SB8	7/19/2014	7	2	Hollow Stem Auger	-	-	-	-	-
SB9	7/19/2014	10	2	Hollow Stem Auger	-	-	-	-	-
MW1	7/19/2014	15	1	PVC	10.00	5.19	94.81	7.91	86.90
MW2	7/19/2014	15	1	PVC	10.00	5.35	94.65	5.56	89.09
MW3	7/9/2014	15	1	PVC	10.00	5.26	94.74	5.31	89.43

TABLE 2
202 N 10th Street,
Brooklyn, New York
Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1		B2		B3		B4		B5				B6				B7				B8				B9			
			7/19/2014		7/19/2014		7/19/2014		7/19/2014		2/11/2015				2/11/2015				2/11/2015				2/11/2015				2/11/2015			
			(13-14')		(8-10')		(14-16')		(14-16')		(0-2')		(11-13')		(0-2')		(11-13')		(0-2')		(11-13')		(0-2')		(4-6')		(0-2')		(4-6')	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,1,1-Trichloroethane	680	100,000	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,1,2,2-Tetrachloroethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,1,2-Trichloroethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,1-Dichloroethane	270	26,000	< 270	270	< 270	270	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,1-Dichloroethene	330	100,000	< 330	330	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,1-Dichloropropene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,2,3-Trichlorobenzene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,2,3-Trichloropropane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,2,4-Trichlorobenzene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,2,4-Trimethylbenzene	3,600	52,000	**920**	340	**1,100**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	**300**	310	**270**	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,2-Dibromo-3-chloropropane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,2-Dibromomethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,2-Dichlorobenzene	1,100	100,000	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,2-Dichloroethane	20	3,100	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,2-Dichloropropane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,3,5-Trimethylbenzene	8,400	52,000	**540**	340	**880**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	**160**	310	**140**	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,3-Dichlorobenzene	2,400	4,900	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,3-Dichloropropane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
1,4-Dichlorobenzene	1,800	13,000	**440**	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
2,2-Dichloropropane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
2-Chlorotoluene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
2-Hexanone (Methyl Butyl Ketone)			< 1700	1,700	< 1400	1,400	< 29	29	< 29	29	< 38	38	< 59	59	< 32	32	< 72	72	< 56	56	< 48	48	< 45	45	< 36	36	< 31	31	< 37	37
2-Isopropyltoluene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
4-Chlorotoluene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
4-Methyl-2-Pentanone			< 1700	1,700	< 1400	1,400	< 29	29	< 29	29	< 38	38	< 59	59	< 32	32	< 72	72	< 56	56	< 48	48	< 45	45	< 36	36	< 31	31	< 37	37
Acetone	50	100,000	< 3400	3,400	< 2900	2,900	**12**	50	**12**	50	**8.5**	50	**67**	120	**11**	50	**89**	140	**18**	50	**240**	95	< 50	50	**19**	50	< 50	50	**9.6**	50
Acrylonitrile			< 680	680	< 570	570	< 12	12	< 12	12	< 15	15	< 23	23	< 13	13	< 29	29	< 22	22	< 19	19	< 18	18	< 15	15	< 12	12	< 15	15
Benzene	60	4,800	< 340	340	< 60	60	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	**1,000**	310	**3.6**	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Bromobenzene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Bromochloromethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Bromodichloromethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Bromoform			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Bromomethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Carbon Disulfide			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	**3.3**	14	< 11	11	**9**	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Carbon tetrachloride	760	2,400	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Chlorobenzene	1,100	100,000	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Chloroethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Chloroform	370	49,000	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Chloromethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
cis-1,2-Dichloroethene	250	100,000	< 250	250	< 250	250	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
cis-1,3-Dichloropropene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Dibromochloromethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Dibromomethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Dichlorodifluoromethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Ethylbenzene	1,000	41,000	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	**160**	310	**6.9**	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Hexachlorobutadiene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Isopropylbenzene			< 340	340	**75**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
m&p-Xylenes	260	100,000	**370**	340	**670**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	**1,100**	310	170	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 2000	2,000	< 1700	1,700	< 35	35	< 35	35	**7.9**	45	**16**	70	< 38	38	**23**	87	< 67	67	**150**	57	< 54	54	< 44	44	< 37	37	< 44	44
Methyl t-butyl ether (MTBE)	930	100,000	< 680	680	< 570	570	< 12	12	< 12	12	< 15	15	< 23	23	< 13	13	< 29	29	< 22	22	< 19	19	< 18	18	< 15	15	< 12	12	< 15	15
Methylene chloride	50	100,000	**91**	340	**79**	290	**1.5**	5.8	**1.6**	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Naphthalene	12,000	100,000	**230**	340	**260**	290	< 5.8	5.8	< 5.9	5.9	**4.9**	7.5	< 12	12	**4.2**	6.3	**310**	280	**250**	310	< 320	320	**350**	270	< 7.3	7.3	**2.5**	6.2	< 7.4	7.4
n-Butylbenzene	12,000	100,000	< 340	340	**120**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
n-Propylbenzene	3,900	100,000	< 340	340	**120**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
o-Xylene	260	100,000	**170**	340	**270**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	**540**	310	**56**	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
p-Isopropyltoluene			**74**	340	**81**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
sec-Butylbenzene	11,000	100,000	< 340	340	**63**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Styrene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	**210**	310	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
tert-Butylbenzene	5,900	100,000	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 310	310	< 320	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Tetrachloroethene	1,300	19,000	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Tetrahydrofuran (THF)			< 680	680	< 570	570	< 12	12	< 12	12	< 15	15	< 23	23	< 13	13	< 29	29	< 22	22	< 19	19	< 18	18	< 15	15	< 12	12	< 15	15
Toluene	700	100,000	< 340	340	**94**	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	**55**	310	< 6.3	6.3	**79**	280	**1,600**	310	**51**	320	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
trans-1,2-Dichloroethene	190	100,000	< 190	190	< 190	190	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
trans-1,3-Dichloropropene			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
trabs-1,4-dichloro-2-butene			< 680	680	< 570	570	< 12	12	< 12	12	< 15	15	< 23	23	< 13	13	< 29	29	< 610	610	< 630	630	< 18	18	< 15	15	< 12	12	< 15	15
Trichloroethene	470	21,000	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Trichlorofluoromethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Trichlorotrifluoroethane			< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Vinyl Chloride	20	900	< 340	340	< 290	290	< 5.8	5.8	< 5.9	5.9	< 7.5	7.5	< 12	12	< 6.3	6.3	< 14	14	< 11	11	< 9.5	9.5	< 9.0	9.0	< 7.3	7.3	< 6.2	6.2	< 7.4	7.4
Total BTEX Concentration			**540**		**1034**		**0**		**0**		**0**		**55**		**0**		**79**		**4400**		**287.5**		**0**		**0**		**0**		**0**	
Total VOCs Concentration			**2835**		**3812**		**13.5**		**13.6**		**21.3**		**138**		**15.2**		**504.3**		**5338**		**1096.5**		**350**		**19**		**2.5**		**9.6**	

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 3
202 N 10th Street,
Brooklyn, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1		B2		B3		B4		B5				B6				B7				B8				B9			
			7/19/2014		7/19/2014		7/19/2014		7/19/2014		2/11/2015				2/11/2015				2/11/2015				2/11/2015				2/11/2015			
			(13-14')		(8-10')		(14-16')		(14-16')		(0-2')		(11-13')		(0-2')		(11-13')		(0-2')		(11-13')		(0-2')		(4-6')		(0-2')		(4-6')	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
1,2,4-Trichlorobenzene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
1,2-Dichlorobenzene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
1,2-Diphenylhydrazine			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
1,3-Dichlorobenzene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
1,4-Dichlorobenzene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2,4,5-Trichlorophenol			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2,4,6-Trichlorophenol			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2,4-Dichlorophenol			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2,4-Dimethylphenol			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2,4-Dinitrophenol			-	-	-	-	-	-	-	-	< 1900	1,900	< 1900	1,900	< 9500	9,500	< 2000	2,000	< 1900	1,900	< 20000	20,000	< 19000	19,000	< 1900	1,900	< 2000	2,000	< 2000	2,000
2,4-Dinitrotoluene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2,6-Dinitrotoluene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2-Chloronaphthalene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2-Chlorophenol			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2-Methylnaphthalene			-	-	-	-	-	-	-	-	**810**	270	< 270	270	< 1300	1,300	< 290	290	**470**	270	< 2900	2,900	**1,500**	2,700	< 270	270	**330**	280	< 280	280
2-Methylphenol (o-cresol)	330	100,000	-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
2-Nitroaniline			-	-	-	-	-	-	-	-	< 1900	1,900	< 1900	1,900	< 9500	9,500	< 2000	2,000	< 1900	1,900	< 20000	20,000	< 19000	19,000	< 1900	1,900	< 2000	2,000	< 2000	2,000
2-Nitrophenol			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
3&4-Methylphenol (m&p-cresol)	330	100,000	-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	**230**	280	< 280	280
3,3'-Dichlorobenzidine			-	-	-	-	-	-	-	-	< 760	760	< 770	770	< 3800	3,800	< 820	820	< 760	760	< 8200	8,200	< 7800	7,800	< 770	770	< 800	800	< 800	800
3-Nitroaniline			-	-	-	-	-	-	-	-	< 1900	1,900	< 1900	1,900	< 9500	9,500	< 2000	2,000	< 1900	1,900	< 20000	20,000	< 19000	19,000	< 1900	1,900	< 2000	2,000	< 2000	2,000
4,6-Dinitro-2-methylphenol			-	-	-	-	-	-	-	-	< 1900	1,900	< 1900	1,900	< 9500	9,500	< 2000	2,000	< 1900	1,900	< 20000	20,000	< 19000	19,000	< 1900	1,900	< 2000	2,000	< 2000	2,000
4-Bromophenyl phenyl ether			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
4-Chloro-3-methylphenol			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
4-Chloroaniline			-	-	-	-	-	-	-	-	< 760	760	< 770	770	< 3800	3,800	< 820	820	< 760	760	< 8200	8,200	< 7800	7,800	< 770	770	< 800	800	< 800	800
4-Chlorophenyl phenyl ether			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
4-Nitroaniline			-	-	-	-	-	-	-	-	< 1900	1,900	< 1900	1,900	< 9500	9,500	< 2000	2,000	< 1900	1,900	< 20000	20,000	< 19000	19,000	< 1900	1,900	< 2000	2,000	< 2000	2,000
4-Nitrophenol			-	-	-	-	-	-	-	-	< 1900	1,900	< 1900	1,900	< 9500	9,500	< 2000	2,000	< 1900	1,900	< 20000	20,000	< 19000	19,000	< 1900	1,900	< 2000	2,000	< 2000	2,000
Acenaphthene	20,000	100,000	< 31000	31,000	< 1300	1,300	< 270	270	< 270	270	**1,700**	270	< 270	270	**860**	1,300	< 290	290	< 270	270	< 2900	2,900	**23,000**	2,700	< 270	270	**670**	280	< 280	280
Acenaphthylene	100,000	100,000	< 31000	31,000	< 1300	1,300	< 270	270	< 270	270	**890**	270	< 270	270	**1,400**	1,300	< 290	290	< 270	270	< 2900	2,900	**3,200**	2,700	< 270	270	**190**	280	< 280	280
Acetophenone			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Aniline			-	-	-	-	-	-	-	-	< 1900	1,900	< 1900	1,900	< 9500	9,500	< 2000	2,000	< 1900	1,900	< 20000	20,000	< 19000	19,000	< 1900	1,900	< 2000	2,000	< 2000	2,000
Anthracene	100,000	100,000	< 31000	31,000	< 1300	1,300	< 270	270	< 270	270	**4,000**	270	< 270	270	**2,000**	1,300	< 290	290	**180**	270	< 2900	2,900	**59,000**	27,000	< 270	270	**1,400**	280	< 280	280
Benz(a)anthracene	1,000	1,000	< 31000	31,000	**1,500**	1,300	< 270	270	< 270	270	**11,000**	1,300	< 270	270	**7,600**	1,300	< 290	290	**890**	270	< 2900	2,900	**100,000**	27,000	< 270	270	**2,500**	280	< 280	280
Benzidine			-	-	-	-	-	-	-	-	< 760	760	< 770	770	< 3800	3,800	< 820	820	< 760	760	< 8200	8,200	< 7800	7,800	< 770	770	< 800	800	< 800	800
Benzo(a)pyrene	1,000	1,000	< 31000	31,000	**1,300**	1,300	< 270	270	< 270	270	**9,000**	1,300	< 270	270	**7,300**	1,300	< 290	290	**1,100**	270	< 2900	2,900	**78,000**	27,000	< 270	270	**2,100**	280	**140**	280
Benzo(b)fluoranthene	1,000	1,000	< 31000	31,000	**1,100**	1,300	< 270	270	< 270	270	**13,000**	1,300	< 270	270	**9,300**	1,300	< 290	290	**900**	270	< 2900	2,900	**86,000**	27,000	< 270	270	**2,900**	280	< 280	280
Benzo(ghi)perylene	100,000	100,000	< 31000	31,000	**710**	1,300	< 270	270	< 270	270	**5,200**	270	**130**	270	**5,100**	1,300	< 290	290	**1,200**	270	< 2900	2,900	**50,000**	2,700	< 270	270	**730**	280	**170**	280
Benzo(k)fluoranthene	800	3,900	< 31000	31,000	< 1300	1,300	< 270	270	< 270	270	**3,800**	270	< 270	270	**3,400**	1,300	< 290	290	**280**	270	< 2900	2,900	**27,000**	2,700	< 270	270	**1,000**	280	< 280	280
Benzoic acid			-	-	-	-	-	-	-	-	< 1900	1,900	< 1900	1,900	< 9500	9,500	< 2000	2,000	< 1900	1,900	< 20000	20,000	< 19000	19,000	< 1900	1,900	< 2000	2,000	< 2000	2,000
Benzyl butyl phthalate			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Bis(2-chloroethoxy)methane			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Bis(2-chloroethyl)ether			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Bis(2-chloroisopropyl)ether			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Bis(2-ethylhexyl)phthalate			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Carbazole			-	-	-	-	-	-	-	-	**1,900**	1,900	< 1900	1,900	< 9500	9,500	< 2000	2,000	< 1900	1,900	< 20000	20,000	**9,400**	19,000	< 1900	1,900	**700**	2,000	< 2000	2,000
Chrysene	1,000	3,900	< 31000	31,000	**2,000**	1,300	< 270	270	< 270	270	**13,000**	1,300	< 270	270	**10,000**	1,300	< 290	290	**1,200**	270	**1,700**	2,900	**100,000**	27,000	< 270	270	**2,700**	280	< 280	280
Dibenz(a,h)anthracene	330	330	< 31000	31,000	< 1300	1,300	< 270	270	< 270	270	**1,700**	270	< 270	270	**1,400**	1,300	< 290	290	< 270	270	< 2900	2,900	**13,000**	2,700	< 270	270	< 280	280	< 280	280
Dibenzofuran	7,000	59,000	-	-	-	-	-	-	-	-	**1,400**	270	< 270	270	**1,600**	1,300	< 290	290	< 270	270	< 2900	2,900	**12,000**	2,700	< 270	270	**620**	280	< 280	280
Diethyl phthalate			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Dimethylphthalate			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Di-n-butylphthalate			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Di-n-octylphthalate			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Fluoranthene	100,000	100,000	< 31000	31,000	**750**	1,300	< 270	270	< 270	270	**19,000**	1,300	< 270	270	**18,000**	1,300	< 290	290	**680**	270	< 2900	2,900	**200,000**	27,000	< 270	270	**4,200**	280	< 280	280
Fluorene	30,000	100,000	< 31000	31,000	< 1300	1,300	< 270	270	< 270	270	**2,100**	270	< 270	270	**1,500**	1,300	< 290	290	< 270	270	< 2900	2,900	**28,000**	2,700	< 270	270	**650**	280	< 280	280
Hexachlorobenzene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Hexachlorobutadiene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Hexachlorocyclopentadiene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Hexachloroethane			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Indeno(1,2,3-cd)pyrene	500	500	< 31000	31,000	< 1300	1,300	< 270	270	< 270	270	**5,300**	270	< 270	270	**4,500**	1,300	< 290	290	**620**	270	< 2900	2,900	**43,000**	2,700	< 270	270	**760**	280	**150**	280
Isophorone			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Naphthalene	12,000	100,000	-	-	-	-	-	-	-	-	**1,500**	270	< 270	270	**880**	1,300	< 290	290	**1,500**	270	< 2900	2,900	**1,900**	2,700	< 270	270	**750**	280	< 280	280
Nitrobenzene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
N-Nitrosodimethylamine			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
N-Nitrosodi-n-propylamine			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
N-Nitrosodiphenylamine			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Pentachloronitrobenzene			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Pentachlorophenol	800	6,700	-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Phenanthrene	100,000	100,000	**17,000**	31,000	**1,400**	1,300	< 270	270	< 270	270	**23,000**	1,300	< 270	270	**22,000**	1,300	< 290	290	**790**	270	**1,600**	2,900	**240,000**	27,000	< 270	270	**6,100**	560	< 280	280
Phenol	330	100,000	-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280
Pyrene	100,000	100,000	< 31000	31,000	**1,800**	1,300	< 270	270	< 270	270	**15,000**	1,300	< 270	270	**14,000**	1,300	< 290	290	**650**	270	**1,600**	2,900	**200,000**	27,000	< 270	270	**3,400**	280	< 280	280
Pyridine			-	-	-	-	-	-	-	-	< 270	270	< 270	270	< 1300	1,300	< 290	290	< 270	270	< 2900	2,900	< 2700	2,700	< 270	270	< 280	280	< 280	280

Notes:
* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 4
202 N 10th Street,
Brooklyn, New York
Soil Analytical Results
Pesticides PCBs

	COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B5				B6				B7				B8				B9			
				2/11/2015				2/11/2015				2/11/2015				2/11/2015				2/11/2015			
				(0-2') µg/Kg		(11-13') µg/Kg		(0-2') µg/Kg		(11-13') µg/Kg		(0-2') µg/Kg		(11-13') µg/Kg		(0-2') µg/Kg		(4-6') µg/Kg		(0-2') µg/Kg		(4-6') µg/Kg	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides	4,4' -DDD	3.3	13,000	< 23	23	< 2.3	2.3	< 11	11	< 2.4	2.4	< 2.3	2.3	< 2.4	2.4	< 12	12	< 2.3	2.3	< 2.4	2.4	< 2.4	2.4
	4,4' -DDE	3.3	8,900	< 23	23	< 2.3	2.3	< 11	11	< 2.4	2.4	< 2.3	2.3	< 2.4	2.4	< 12	12	< 2.3	2.3	< 2.4	2.4	< 2.4	2.4
	4,4' -DDT	3.3	7,900	< 23	23	< 2.3	2.3	< 11	11	< 2.4	2.4	< 2.3	2.3	< 2.4	2.4	< 12	12	< 2.3	2.3	< 2.4	2.4	< 2.4	2.4
	a-BHC	20	480	< 38	38	< 7.6	7.6	< 19	19	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 19	19	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	a-Chlordane	94	4,200	< 38	38	< 3.8	3.8	< 19	19	< 4.0	4.0	< 3.8	3.8	< 4.1	4.1	< 19	19	< 3.9	3.9	< 3.9	3.9	< 4.0	4.0
	Aldrin	5	97	< 11	11	< 3.8	3.8	< 6.0	6.0	< 4.0	4.0	< 3.8	3.8	< 4.1	4.1	< 6.0	6.0	< 3.9	3.9	< 3.9	3.9	< 4.0	4.0
	b-BHC	36	360	< 38	38	< 7.6	7.6	< 19	19	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 19	19	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	Chlordane	94	4,200	< 380	380	< 38	38	< 190	190	< 40	40	< 38	38	< 41	41	< 190	190	< 39	39	< 39	39	< 40	40
	d-BHC	40	100,000	< 38	38	< 7.6	7.6	< 37	37	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 39	39	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	Dieldrin	5	200	< 11	11	< 3.8	3.8	< 6.0	6.0	< 4.0	4.0	< 3.8	3.8	< 4.1	4.1	< 19	19	< 3.9	3.9	< 3.9	3.9	< 4.0	4.0
	Endosulfan I	2,400	24,000	< 76	76	< 7.6	7.6	< 37	37	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 39	39	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	Endosulfan II	2,400	24,000	< 76	76	< 7.6	7.6	< 37	37	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 39	39	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	Endosulfan sulfate	2,400	24,000	< 76	76	< 7.6	7.6	< 37	37	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 39	39	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	Endrin	14	11,000	< 38	38	< 7.6	7.6	< 19	19	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 19	19	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	Endrin aldehyde			< 76	76	< 7.6	7.6	< 37	37	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 39	39	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	Endrin ketone			< 76	76	< 7.6	7.6	< 37	37	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 39	39	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	g-BHC			< 15	15	< 1.5	1.5	< 7.5	7.5	< 1.6	1.6	< 1.5	1.5	< 1.6	1.6	< 7.8	7.8	< 1.6	1.6	< 1.6	1.6	< 1.6	1.6
	g-Chlordane			< 38	38	< 3.8	3.8	< 19	19	< 4.0	4.0	< 3.8	3.8	< 4.1	4.1	< 19	19	< 3.9	3.9	< 3.9	3.9	< 4.0	4.0
	Heptachlor	42	2,100	< 38	38	< 7.6	7.6	< 37	37	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 39	39	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	Heptachlor epoxide			< 76	76	< 7.6	7.6	< 37	37	< 8.0	8.0	< 7.6	7.6	< 8.2	8.2	< 39	39	< 7.8	7.8	< 7.9	7.9	< 7.9	7.9
	Methoxychlor			< 380	380	< 38	38	< 190	190	< 40	40	< 38	38	< 41	41	< 190	190	< 39	39	< 39	39	< 40	40
	Toxaphene			< 1500	1,500	< 150	150	< 750	750	< 160	160	< 150	150	< 160	160	< 780	780	< 160	160	< 160	160	< 160	160
PCBs	PCB-1016	100	1,000	< 38	38	< 38	38	< 37	37	< 40	40	< 38	38	< 41	41	< 39	39	< 39	39	< 39	39	< 40	40
	PCB-1221	100	1,000	< 38	38	< 38	38	< 37	37	< 40	40	< 38	38	< 41	41	< 39	39	< 39	39	< 39	39	< 40	40
	PCB-1232	100	1,000	< 38	38	< 38	38	< 37	37	< 40	40	< 38	38	< 41	41	< 39	39	< 39	39	< 39	39	< 40	40
	PCB-1242	100	1,000	< 38	38	< 38	38	< 37	37	< 40	40	< 38	38	< 41	41	< 39	39	< 39	39	< 39	39	< 40	40
	PCB-1248	100	1,000	< 38	38	< 38	38	< 37	37	< 40	40	< 38	38	< 41	41	< 39	39	< 39	39	< 39	39	< 40	40
	PCB-1254	100	1,000	< 38	38	< 38	38	< 37	37	< 40	40	< 38	38	< 41	41	< 39	39	< 39	39	< 39	39	< 40	40
	PCB-1260	100	1,000	< 38	38	< 38	38	< 37	37	< 40	40	< 38	38	< 41	41	< 39	39	< 39	39	< 39	39	< 40	40
	PCB-1262	100	1,000	< 38	38	< 38	38	< 37	37	< 40	40	< 38	38	< 41	41	< 39	39	< 39	39	< 39	39	< 40	40
	PCB-1268	100	1,000	< 38	38	< 38	38	< 37	37	< 40	40	< 38	38	< 41	41	< 39	39	< 39	39	< 39	39	< 40	40

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 5
202 N 10th Street,
Brooklyn, New York
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B5				B6				B7				B8				B9			
			2/11/2015				2/11/2015				2/11/2015				2/11/2015				2/11/2015			
			(0-2') mg/Kg		(11-13') mg/Kg		(0-2') mg/Kg		(11-13') mg/Kg		(0-2') mg/Kg		(11-13') mg/Kg		(0-2') mg/Kg		(4-6') mg/Kg		(0-2') mg/Kg		(4-6') mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			5,460	40	10,900	35	4,850	38	10,400	38	5,470	40	8,650	43	6,010	41	7,880	38	6,280	38	11,100	42
Antimony			< 2.0	2.0	< 1.8	1.8	6.8	1.9	< 1.9	1.9	20.4	2.0	< 2.2	2.2	9.9	2.1	< 1.9	1.9	17.1	1.9	< 2.1	2.1
Arsenic	13	16	28.9	0.8	1.8	0.7	16.3	0.8	1.6	0.8	20.4	0.8	1.3	0.9	13.4	0.8	2.9	0.8	69.5	0.8	6	0.8
Barium	350	350	184	0.8	65.4	0.7	127	0.8	51.4	0.8	147	0.8	54.8	0.9	130	0.8	48.1	0.8	167	0.8	57.4	0.8
Beryllium	7.2	14	0.32	0.32	0.51	0.28	0.29	0.30	0.52	0.30	0.33	0.32	0.44	0.35	0.36	0.33	0.38	0.31	0.36	0.30	0.54	0.33
Cadmium	2.5	2.5	1.8	0.40	< 0.35	0.35	1.22	0.38	< 0.38	0.38	1.21	0.40	< 0.43	0.43	0.87	0.41	0.32	0.38	0.7	0.38	0.25	0.42
Calcium			11,200	4.0	1,060	3.5	92,900	38	1,120	3.8	47,500	40	1,480	4.3	41,400	41	1,540	3.8	41,400	38	1,800	4.2
Chromium	30	180	55.4	0.40	21.2	0.35	26.8	0.38	19.8	0.38	40	0.40	19.8	0.43	59.6	0.41	20.7	0.38	29.4	0.38	48.3	0.42
Cobalt			16.8	0.40	9.91	0.35	10.7	0.38	8.61	0.38	16	0.40	8.74	0.43	8.95	0.41	7.18	0.38	9.15	0.38	10.1	0.42
Copper	50	270	294	4.0	18.1	0.35	166	3.8	14.6	0.38	310	4.0	20.2	0.43	588	4.1	58.1	0.38	841	3.8	53.3	0.42
Iron			91,300	40	20,900	35	52,600	38	19,800	38	64,300	40	18,100	43	29,700	41	18,400	38	37,400	38	20,000	42
Lead	63	400	441	8.1	24.2	0.7	493	7.6	10.5	0.8	473	8.1	59.1	0.9	522	8.3	47.7	0.8	415	7.6	49.2	0.8
Magnesium			1,030	4.0	2,730	3.5	1,570	3.8	2,500	3.8	2,450	4.0	1,750	4.3	2,320	4.1	1,820	3.8	1,640	3.8	2,410	4.2
Manganese	1,600	2,000	997	4.0	353	3.5	473	3.8	429	3.8	396	4.0	200	4.3	574	4.1	246	3.8	1,140	3.8	202	4.2
Mercury	0.18	0.81	3.41	0.30	0.04	0.03	19.8	1.5	< 0.03	0.03	2.44	0.31	0.27	0.03	3.59	0.15	0.32	0.03	2.89	0.14	1.92	0.14
Nickel	30	140	27.6	0.40	14.6	0.35	17.2	0.38	13.3	0.38	23.7	0.40	14.1	0.43	19.5	0.41	11.6	0.38	14.3	0.38	15.9	0.42
Potassium			904	8	1,600	7	1,400	8	1,090	8	2,330	8	961	9	2,220	8	1,410	8	2,440	8	2,000	8
Selenium	3.9	36	< 1.6	1.6	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.6	1.6	< 1.7	1.7	< 1.7	1.7	< 1.5	1.5	< 1.5	1.5	< 1.7	1.7
Silver	2	36	< 0.40	0.40	< 0.35	0.35	< 0.38	0.38	< 0.38	0.38	1.8	0.40	< 0.43	0.43	0.6	0.41	< 0.38	0.38	< 0.38	0.38	< 0.42	0.42
Sodium			193	8	193	7	973	8	94	8	1,390	8	87	9	971	8	165	8	474	8	93	8
Thallium			< 1.6	1.6	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.6	1.6	< 1.7	1.7	< 1.7	1.7	< 1.5	1.5	< 1.5	1.5	< 1.7	1.7
Vanadium			59.8	0.4	32.4	0.4	21.4	0.4	28.6	0.4	23.5	0.4	28	0.4	25.5	0.4	25.4	0.4	29.1	0.4	31.8	0.4
Zinc	109	2,200	406	8.1	43.7	0.7	734	7.6	31.6	0.8	366	8.1	57.3	0.9	626	8.3	252	7.6	309	7.6	455	8.4

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Table 6
202 N 10th Street,
Brooklyn, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	MW1 7/19/2014 µg/L		MW2 7/20/2014 µg/L		MW3 7/21/2014 µg/L		MW1 2/12/2015 µg/L		MW2 2/12/2015 µg/L		MW3 2/12/2015 µg/L		Duplicate 2/12/2015 µg/L		Trip Blank 2/12/2015 µg/L	
	µg/L	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 5.0	5	< 500	500	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 1.0	1	< 500	500	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5	< 500	500	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 1.0	1	< 500	500	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trichlorobenzene		< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	**3.4**	5	< 500	500	< 5.0	5	< 1.0	1.0	**1**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 1.0	1	< 500	500	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dibromoethane		< 1.0	1	< 500	500	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dichlorobenzene	5	< 4.0	4	< 500	500	< 4.0	4	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 1.0	1	< 500	500	< 1.0	1	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	0.94	< 1.0	1	< 500	500	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	**1.7**	5	< 500	500	< 5.0	5	< 1.0	1.0	**0.62**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene		< 3.0	3	< 500	500	< 3.0	3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	**1**	5	< 500	500	< 5.0	5	< 1.0	1.0	**0.66**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2,2-Dichloropropane	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Hexanone (Methyl Butyl Ketone)		< 25	25	< 2500	2,500	< 25	25	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Isopropyltoluene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 25	25	< 2500	2,500	< 25	25	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Acetone	50	**22**	50	< 5000	5,000	**13**	50	**3.8**	5.0	**6.6**	5.0	**6.5**	5.0	**5.9**	5.0	**0.77**	5.0
Acrolein		< 5.0	5	< 1000	1,000	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	**3.6**	5	< 500	500	< 1.0	1	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5	< 500	500	< 5.0	5	**0.29**	0.70	**0.38**	0.70	< 0.70	0.70	**0.33**	0.70	< 0.70	0.70
Bromobenzene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 5.0	5	< 500	500	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Bromomethane	5	**1.4**	5	< 500	500	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Chlorobenzene	5	< 5.0	5	< 500	500	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5	< 500	500	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 5.0	5	< 500	500	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloromethane	60	< 5.0	5	< 500	500	< 5.0	5	**0.34**	5.0	< 5.0	5.0	< 5.0	5.0	**0.28**	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	< 1.0	1	< 500	500	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
cis-1,3-Dichloropropene		< 5.0	5	< 500	500	< 5.0	5	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 1.0	1	< 500	500	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 5.0	5	< 500	500	< 5.0	5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5
Isopropylbenzene	5	**2.8**	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	**6.2**	50	< 6000	6,000	< 50	50	< 1.0	1.0	**1.5**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methyl Ethyl Ketone (2-Butanone)	50	< 10	10	< 1000	1,000	< 10	10	**1.6**	1.0	< 1.0	1.0	**0.89**	1.0	**2.5**	1.0	< 1.0	1.0
Methyl t-butyl ether (MTBE)	10	**2.1**	5	**420**	500	**2**	5	**0.32**	1.0	**0.58**	1.0	< 1.0	1.0	**0.45**	1.0	< 1.0	1.0
Methylene chloride	5	**1.1**	5	< 500	500	< 5.0	5	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	**0.27**	1.0	**0.25**	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	**1.6**	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	**0.98**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
tert-Butylbenzene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 10	10	< 1000	1,000	< 10	10	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		**2.7**	5	< 500	500	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	**0.42**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	< 5.0	5	< 500	500	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 1.0	1	< 500	500	< 1.0	1	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 5.0	5	< 1000	1,000	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichloroethene	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5	< 500	500	< 5.0	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	< 2.0	2	< 500	500	< 2.0	2	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0

Notes:
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 7
202 N 10th Street,
Brooklyn, New York
Groundwater Analytical Results
Semi-Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1 2/12/2015 µg/L		MW2 2/12/2015 µg/L		MW3 2/12/2015 µg/L		Duplicate 2/12/2015 µg/L	
		Results	RL	Results	RL	Results	RL	Results	RL
1,2,4-Trichlorobenzene		< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
1,2-Dichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0
1,2-Diphenylhydrazine		< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
1,3-Dichlorobenzene	3	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0
1,4-Dichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0
2,4,5-Trichlorophenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2,4,6-Trichlorophenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2,4-Dichlorophenol		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2,4-Dimethylphenol		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2,4-Dinitrophenol	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2,4-Dinitrotoluene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
2,6-Dinitrotoluene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
2-Chloronaphthalene	10	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
2-Chlorophenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Methylnaphthalene		< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
2-Methylphenol (o-cresol)	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Nitroaniline	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
2-Nitrophenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
3&4-Methylphenol (m&p-cresol)		< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0
3,3'-Dichlorobenzidine	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
3-Nitroaniline	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
4,6-Dinitro-2-methylphenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Bromophenyl phenyl ether		< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
4-Chloro-3-methylphenol	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chloroaniline	5	< 3.5	3.5	< 3.6	3.6	< 4.4	4.4	< 3.5	3.5
4-Chlorophenyl phenyl ether		< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
4-Nitroaniline	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
4-Nitrophenol		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Acetophenone		< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Aniline	5	< 3.5	3.5	< 3.6	3.6	< 4.4	4.4	< 3.5	3.5
Anthracene	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Benzidine	5	< 4.5	4.5	< 4.6	4.6	< 5.0	5.0	< 4.5	4.5
Benzoic acid		< 25	25	< 26	26	< 31	31	< 25	25
Benzyl butyl phthalate	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Bis(2-chloroethoxy)methane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Bis(2-chloroethyl)ether	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bis(2-chloroisopropyl)ether		< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Carbazole		< 25	25	< 26	26	< 31	31	< 25	25
Dibenzofuran		< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Diethyl phthalate	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Dimethylphthalate	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Di-n-butylphthalate	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Di-n-octylphthalate	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Fluoranthene	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Fluorene	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Hexachlorobutadiene	0.5	< 0.40	0.40	< 0.41	0.41	< 0.50	0.50	< 0.40	0.40
Hexachlorocyclopentadiene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Isophorone	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Naphthalene	10	< 0.10	0.10	< 0.10	0.10	< 0.13	0.13	< 0.10	0.10
Nitrobenzene	0.4	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
N-Nitrosodimethylamine		< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0
N-Nitrosodi-n-propylamine		< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
N-Nitrosodiphenylamine	50	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Phenol	50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Pyrene	50	< 5.0	5.0	**2.8**	5.1	< 6.3	6.3	< 5.0	5.0
1,2,4,5-Tetrachlorobenzene		< 0.50	0.50	< 0.51	0.51	< 0.63	0.63	< 0.50	0.50
Acenaphthene	20	< 5.0	5.0	< 5.1	5.1	< 6.3	6.3	< 5.0	5.0
Acenaphthylene		< 0.10	0.10	< 0.10	0.10	< 0.13	0.13	< 0.10	0.10
Benz(a)anthracene	0.002	**0.05**	0.02	**2.3**	0.02	**0.06**	0.03	**0.06**	0.02
Benzo(a)pyrene		< 0.02	0.02	**2.2**	0.02	< 0.03	0.03	**0.05**	0.02
Benzo(b)fluoranthene	0.002	**0.05**	0.02	**1.4**	0.02	< 0.03	0.03	**0.06**	0.02
Benzo(ghi)perylene		**0.03**	0.02	**1.6**	0.02	< 0.03	0.03	< 0.02	0.02
Benzo(k)fluoranthene	0.002	**0.02**	0.02	**0.23**	0.02	< 0.03	0.03	**0.03**	0.02
Bis(2-ethylhexyl)phthalate	5	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0
Chrysene	0.002	**0.04**	0.02	**2.9**	0.02	**0.05**	0.03	**0.05**	0.02
Dibenz(a,h)anthracene		< 0.02	0.02	< 0.02	0.02	< 0.03	0.03	< 0.02	0.02
Hexachlorobenzene	0.04	< 0.02	0.02	< 0.02	0.02	< 0.03	0.03	< 0.02	0.02
Hexachloroethane	5	< 0.50	0.50	< 0.51	0.51	< 0.63	0.63	< 0.50	0.50
Indeno(1,2,3-cd)pyrene	0.002	**0.02**	0.02	**0.56**	0.02	< 0.03	0.03	< 0.02	0.02
Pentachloronitrobenzene		< 0.10	0.10	< 0.10	0.10	< 0.13	0.13	< 0.10	0.10
Pentachlorophenol	1	< 0.80	0.80	< 0.82	0.82	< 1.0	1.0	< 0.80	0.80
Phenanthrene	50	**0.1**	0.10	**0.86**	0.10	< 0.13	0.13	**0.1**	0.10
Pyridine	50	< 10	10	< 10	10	< 13	13	< 10	10

Notes:
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 8
202 N 10th Street,
Brooklyn, New York
Groundwater Analytical Results
Pesticides/PCBs

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1 2/12/2015 µg/L		MW2 2/12/2015 µg/L		MW3 2/12/2015 µg/L		Trip Blank 2/12/2015 µg/L	
		Results	RL	Results	RL	Results	RL	Results	RL
PCB-1016	**0.09**	< 0.050	0.050	< 0.50	0.50	< 0.060	0.060	< 0.050	0.050
PCB-1221	**0.09**	< 0.050	0.050	< 0.50	0.50	< 0.060	0.060	< 0.050	0.050
PCB-1232	**0.09**	< 0.050	0.050	< 0.50	0.50	< 0.060	0.060	< 0.050	0.050
PCB-1242	**0.09**	< 0.050	0.050	< 0.50	0.50	< 0.060	0.060	< 0.050	0.050
PCB-1248	**0.09**	< 0.050	0.050	< 0.50	0.50	< 0.060	0.060	< 0.050	0.050
PCB-1254	**0.09**	< 0.050	0.050	< 0.50	0.50	**0.065**	0.060	< 0.050	0.050
PCB-1260	**0.09**	< 0.050	0.050	< 0.50	0.50	< 0.060	0.060	< 0.050	0.050
PCB-1262	**0.09**	< 0.050	0.050	< 0.50	0.50	< 0.060	0.060	< 0.050	0.050
PCB-1268	**0.09**	< 0.050	0.050	< 0.50	0.50	< 0.060	0.060	< 0.050	0.050
4,4-DDD	**0.3**	< 0.010	0.010	< 0.050	0.050	< 0.030	0.030	< 0.010	0.010
4,4-DDE	**0.2**	< 0.010	0.010	< 0.050	0.050	< 0.030	0.030	< 0.010	0.010
4,4-DDT	**0.11**	< 0.010	0.010	< 0.050	0.050	< 0.030	0.030	< 0.010	0.010
a-BHC	**0.94**	< 0.005	0.005	< 0.050	0.050	< 0.030	0.030	< 0.005	0.005
a-Chlordane		< 0.010	0.010	< 0.10	0.10	< 0.060	0.060	< 0.010	0.010
Alachlor		< 0.075	0.075	< 0.050	0.050	< 0.45	0.45	< 0.075	0.075
Aldrin		< 0.002	0.002	< 0.040	0.040	< 0.009	0.009	< 0.002	0.002
b-BHC	**0.04**	< 0.005	0.005	< 0.015	0.015	< 0.030	0.030	< 0.005	0.005
Chlordane	**0.05**	< 0.050	0.050	< 0.50	0.50	< 0.30	0.30	< 0.05	0.05
d-BHC	**0.04**	< 0.005	0.005	< 0.050	0.050	< 0.030	0.030	< 0.005	0.005
Dieldrin	**0.004**	< 0.002	0.002	< 0.015	0.015	< 0.009	0.009	< 0.002	0.002
Endosulfan I		< 0.010	0.010	< 0.10	0.10	< 0.060	0.060	< 0.010	0.010
Endosulfan II		< 0.010	0.010	< 0.050	0.050	< 0.060	0.060	< 0.010	0.010
Endosulfan Sulfate		< 0.010	0.010	< 0.050	0.050	< 0.060	0.060	< 0.010	0.010
Endrin		< 0.010	0.010	< 0.050	0.050	< 0.030	0.030	< 0.010	0.010
Endrin aldehyde	**5**	< 0.010	0.010	< 0.050	0.050	< 0.060	0.060	< 0.010	0.010
Endrin ketone		< 0.010	0.010	< 0.050	0.050	< 0.060	0.060	< 0.010	0.010
gamma-BHC	**0.05**	< 0.005	0.005	< 0.050	0.050	< 0.030	0.030	< 0.005	0.005
g-Chlordane		< 0.010	0.010	< 0.10	0.10	< 0.060	0.060	< 0.010	0.010
Heptachlor	**0.04**	< 0.010	0.010	< 0.050	0.050	< 0.030	0.030	< 0.010	0.010
Heptachlor epoxide	**0.03**	< 0.010	0.010	< 0.050	0.050	< 0.030	0.030	< 0.010	0.010
Methoxychlor	**35**	< 0.10	0.10	< 0.10	0.10	< 0.60	0.60	< 0.10	0.10
Toxaphene		< 0.25	0.25	< 2.5	2.5	< 1.5	1.5	< 0.25	0.25

Notes:
RL- Reporting limit
ND - Non-detect
ND* - Due to matrix interference from non target compounds in the sample an elevated RL was reported.
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 9
202 N 10th Street,
Brooklyn, New York
Groundwater Analytical Results
TAL Filtered Metals

Compound	NYSDEC Groundwater Quality Standards mg/L	MW1 2/12/2015 mg/L		MW2 2/12/2015 mg/L		MW3 2/12/2015 mg/L		Duplicate 2/12/2015 mg/L	
		Results	RL	Results	RL	Results	RL	Results	RL
Aluminum	NS	**0.44**	0.11	**0.58**	0.11	**0.35**	0.11	**0.43**	0.11
Antimony	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003
Arsenic	0.025	**0.007**	0.003	**0.002**	0.003	< 0.003	0.003	**0.006**	0.003
Barium	1	**0.085**	0.011	**0.07**	0.011	**0.072**	0.011	**0.095**	0.011
Beryllium	0.003	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cadmium	0.005	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004
Calcium	NS	**119**	0.01	**75.6**	0.01	**93.1**	0.01	**122**	0.01
Chromium	0.05	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cobalt	NS	**0.001**	0.005	**0.002**	0.005	< 0.005	0.005	**0.001**	0.005
Copper	0.2	**0.014**	0.005	**0.002**	0.005	**0.003**	0.005	**0.009**	0.005
Iron	0.5	**0.08**	0.01	**0.13**	0.01	**0.02**	0.01	**0.04**	0.01
Lead	0.025	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002
Magnesium	35	**13.4**	0.01	**17.3**	0.01	**22.9**	0.01	**14.5**	0.01
Manganese	0.3	**0.177**	0.005	**0.553**	0.005	**0.584**	0.005	**0.178**	0.005
Mercury	0.0007	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002
Nickel	0.1	**0.005**	0.004	**0.004**	0.004	**0.003**	0.004	**0.005**	0.004
Potassium	NS	**22.3**	0.1	**8.5**	0.1	**40.5**	0.1	**22.8**	0.1
Selenium	0.01	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004
Silver	0.05	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Sodium	2	**67.1**	1.1	**31.8**	0.11	**58.2**	0.11	**78.3**	1.1
Thallium	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005
Vanadium	NS	**0.003**	0.011	**0.002**	0.011	**0.002**	0.011	**0.002**	0.011
Zinc	2	**0.496**	0.011	**0.003**	0.011	**0.001**	0.011	**0.467**	0.011

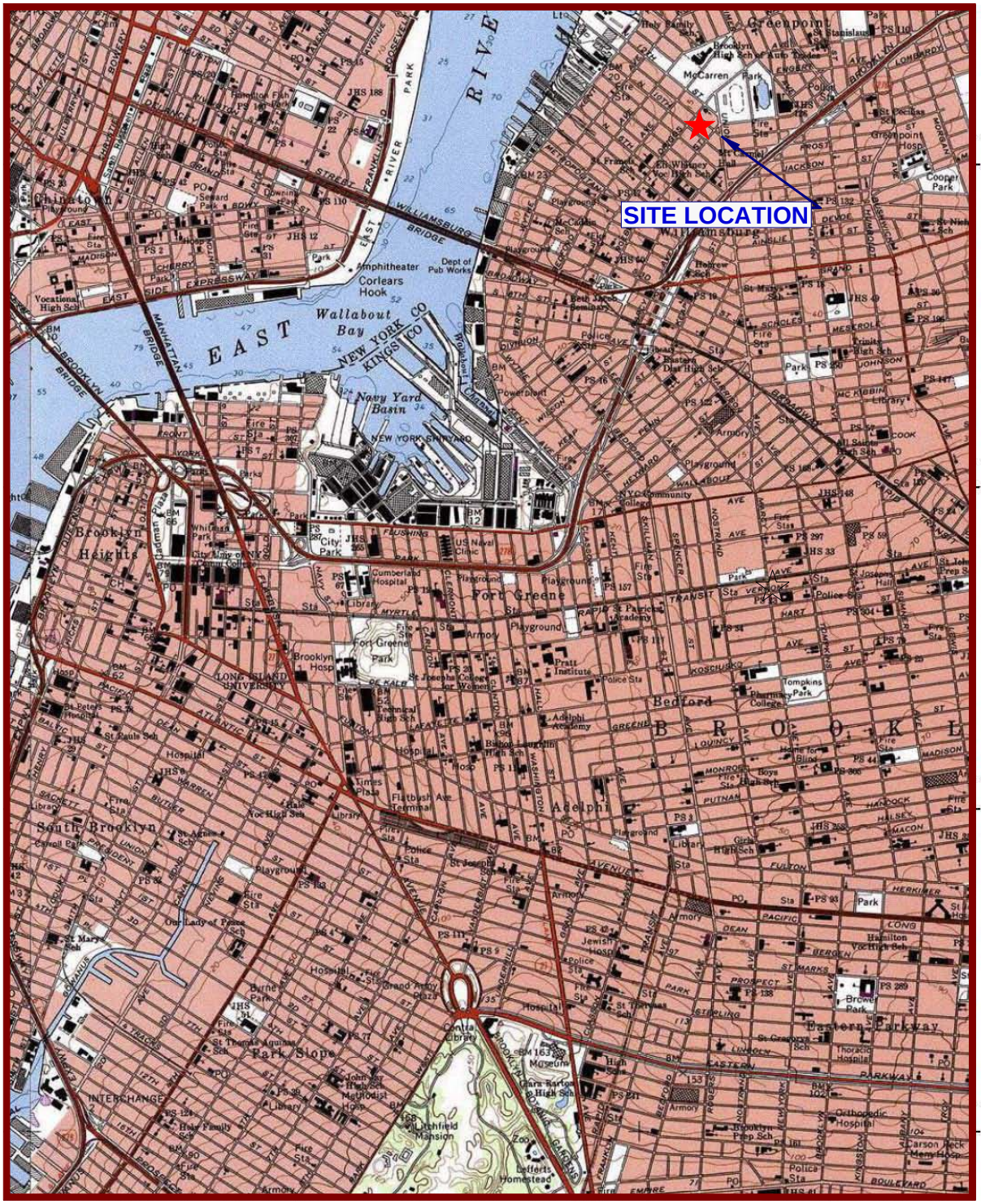
Notes:
RL- Reporting limit
NS - No Standard
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 10
202 N 10th Street,
Brooklyn, New York
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub-Slab Value (µg/m³) [a]	NYSDOH Soil Outdoor Background Levels (µg/m³) [b]	SG-1 2/12/2015 (µg/m3)		SG-2 2/12/2015 (µg/m3)		SG-3 2/12/2015 (µg/m3)		SG-4 2/12/2015 (µg/m3)	
			Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,1-Trichloroethane	100	<2.0 - 2.8	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,2,2-Tetrachloroethane		<1.5	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,2-Trichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethene		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2,4-Trichlorobenzene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2,4-Trimethylbenzene		<1.0	**6.58**	1.00	**8.84**	1.00	**6.68**	1.00	**4.73**	1.00
1,2-Dibromoethane		<1.5	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichloropropane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorotetrafluoroethane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,3,5-Trimethylbenzene		<1.0	**2.2**	1.00	**2.65**	1.00	**2.08**	1.00	**1.26**	1.00
1,3-Butadiene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,3-Dichlorobenzene		<2.0	**5.44**	1.00	**7.57**	1.00	**16.9**	1.00	**16.5**	1.00
1,4-Dichlorobenzene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,4-Dioxane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
2-Hexanone			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
4-Ethyltoluene		NA	**2.01**	1.00	**2.1**	1.00	**1.92**	1.00	**1.19**	1.00
4-Isopropyltoluene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
4-Methyl-2-pentanone			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Acetone		NA	**150**	5.01	**150**	5.01	**146**	5.01	**141**	5.01
Acrylonitrile			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Benzene		<1.6 - 4.7	**4.28**	1.00	**1.9**	1.00	**47.9**	1.00	**3.45**	1.00
Benzyl Chloride		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromodichloromethane		<5.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromoform		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromomethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Carbon Disulfide		NA	**4.42**	1.00	**58.2**	1.00	**6.07**	1.00	**8.9**	1.00
Carbon Tetrachloride	5	<3.1	**0.34**	0.25	**0.36**	0.25	**0.38**	0.25	**0.33**	0.25
Chlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chloroethane		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chloroform		<2.4	< 1.00	1.00	**2.36**	1.00	< 1.00	1.00	< 1.00	1.00
Chloromethane		<1.0 - 1.4	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
cis-1,2-Dichloroethene		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
cis-1,3-Dichloropropene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Cyclohexane		NA	**1.06**	1.00	**1.38**	1.00	**2.13**	1.00	**3.36**	1.00
Dibromochloromethane		<5.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Dichlorodifluromethane		NA	**1.67**	1.00	**2.6**	1.00	**2.06**	1.00	**1.78**	1.00
Ethanol			**155**	5.01	**151**	5.01	**382**	5.01	**288**	5.01
Ethyl Acetate		NA	**21.9**	1.00	**41.4**	1.00	**125**	1.00	**101**	1.00
Ethylbenzene		<4.3	**5.55**	1.00	**4.06**	1.00	**6.64**	1.00	**4.56**	1.00
Heptane		NA	**4.59**	1.00	**12.2**	1.00	**5.86**	1.00	**3.87**	1.00
Hexachlorobutadiene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Hexane		<1.5	**7.43**	1.00	**21.7**	1.00	**11.4**	1.00	**3.87**	1.00
Isopropylalcohol		NA	**209**	5.01	**324**	5.01	**951**	5.01	**816**	5.01
Isopropylbenzene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Xylene (m&p)		<4.3	**19.8**	1.00	**15.8**	1.00	**23.2**	1.00	**15.3**	1.00
Methyl Ethyl Ketone			**4.42**	1.00	**6.48**	1.00	**7.99**	1.00	**6.51**	1.00
MTBE		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Methylene Chloride		<3.4	**2.5**	1.00	**1.68**	1.00	**1.53**	1.00	< 1.00	1.00
n-Butylbenzene			< 1.00	1.00	**1.02**	1.00	< 1.00	1.00	< 1.00	1.00
Xylene (o)		<4.3	**7.72**	1.00	**6.55**	1.00	**8.51**	1.00	**5.34**	1.00
Propylene		NA	**3.63**	1.00	**5.35**	1.00	**7.1**	1.00	**13.9**	1.00
sec-Butylbenzene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Styrene		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Tetrachloroethene	100		**10.3**	0.25	**11.1**	0.25	**4.27**	0.25	**6.33**	0.25
Tetrahydrofuran		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Toluene		1.0 - 6.1	**12.1**	1.00	**10.1**	1.00	**24.1**	1.00	**17.1**	1.00
trans-1,2-Dichloroethene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
trans-1,3-Dichloropropene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Trichloroethene	5	<1.7	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
Trichlorofluoromethane		NA	**1.11**	1.00	**1.12**	1.00	**1.05**	1.00	**1.03**	1.00
Trichlorotrifluoroethane			**1.06**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Vinyl Chloride		<1.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
BTEX			**49.45**		**38.41**		**110.35**		**45.75**	
Total VOCs			**611.29**		**744.77**		**1660.26**		**1358.17**	

Notes:
NA No guidance value or standard available
(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006. New York State Department of Health.
(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected Compounds (NYSDOH

FIGURES



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202 N 10th Street
Brooklyn, NY

FIGURE 1 Site Location Map

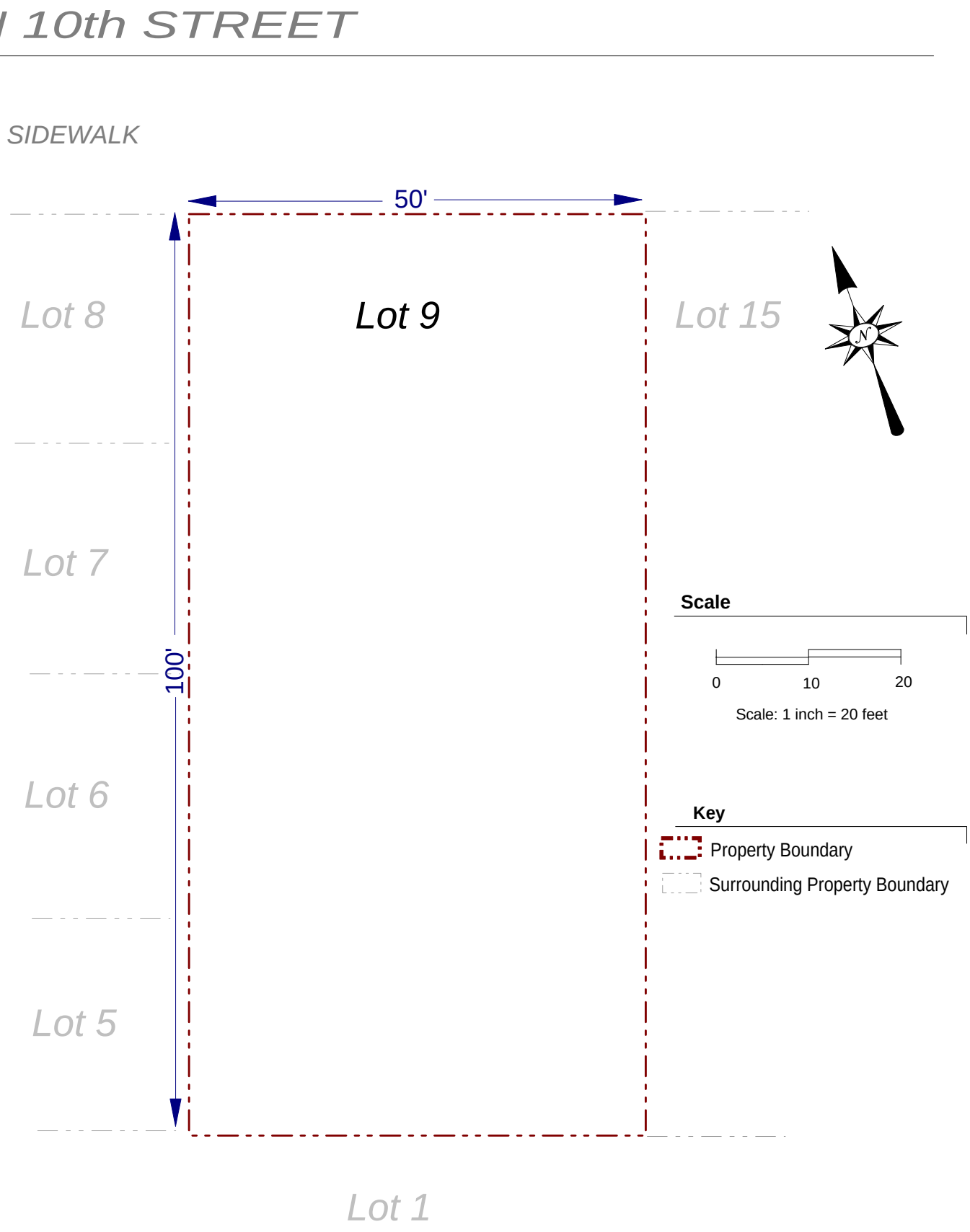

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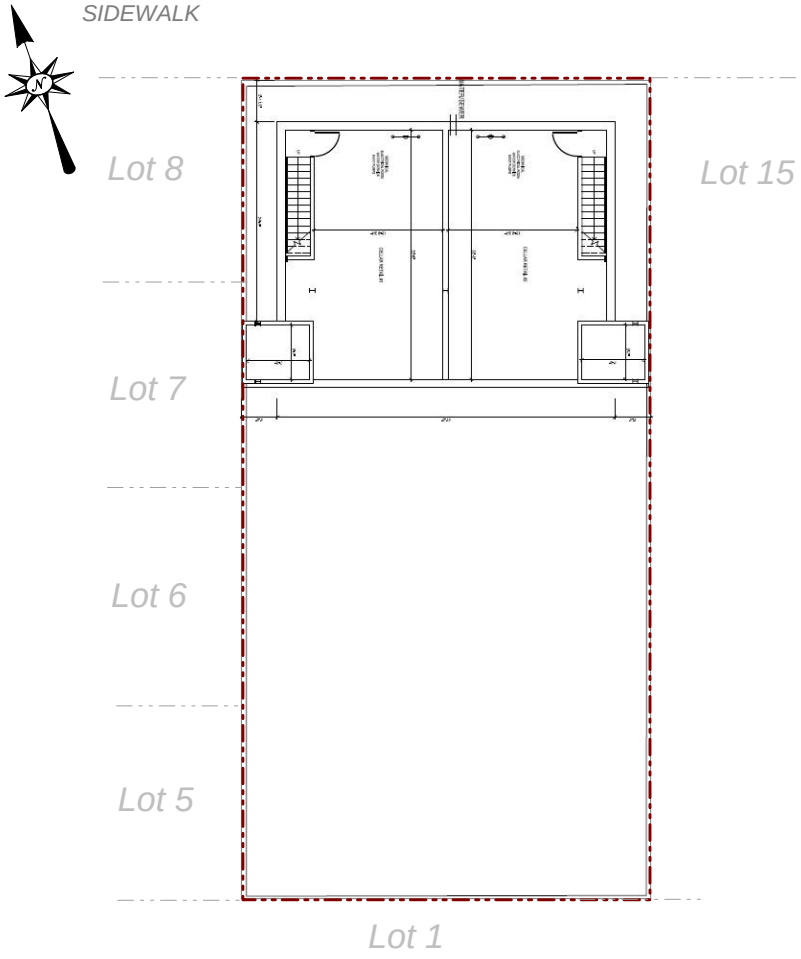
Figure No. 2

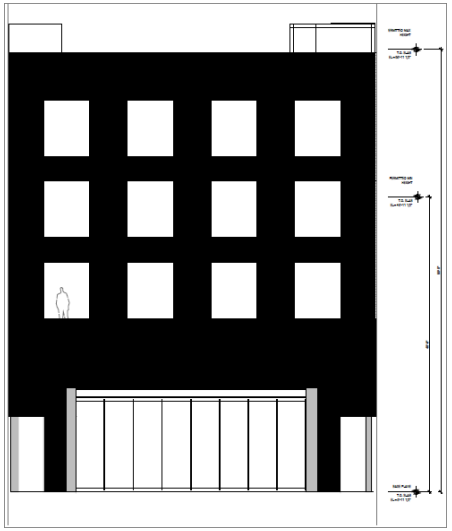
Site Name: Redevelopment Project
Site Address: 202 N 10th Street, Brooklyn, NY
Drawing Title: Site Plan

CELLAR PLAN

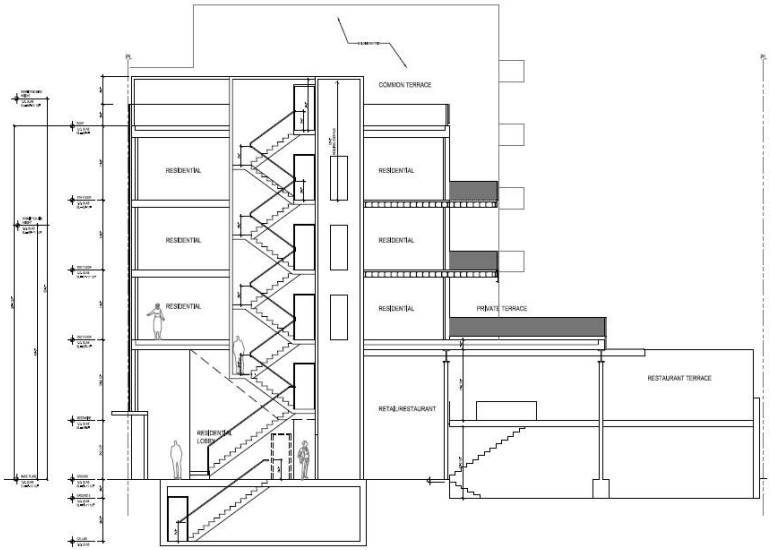
N 10th STREET



FRONT ELEVATION



SIDE ELEVATION



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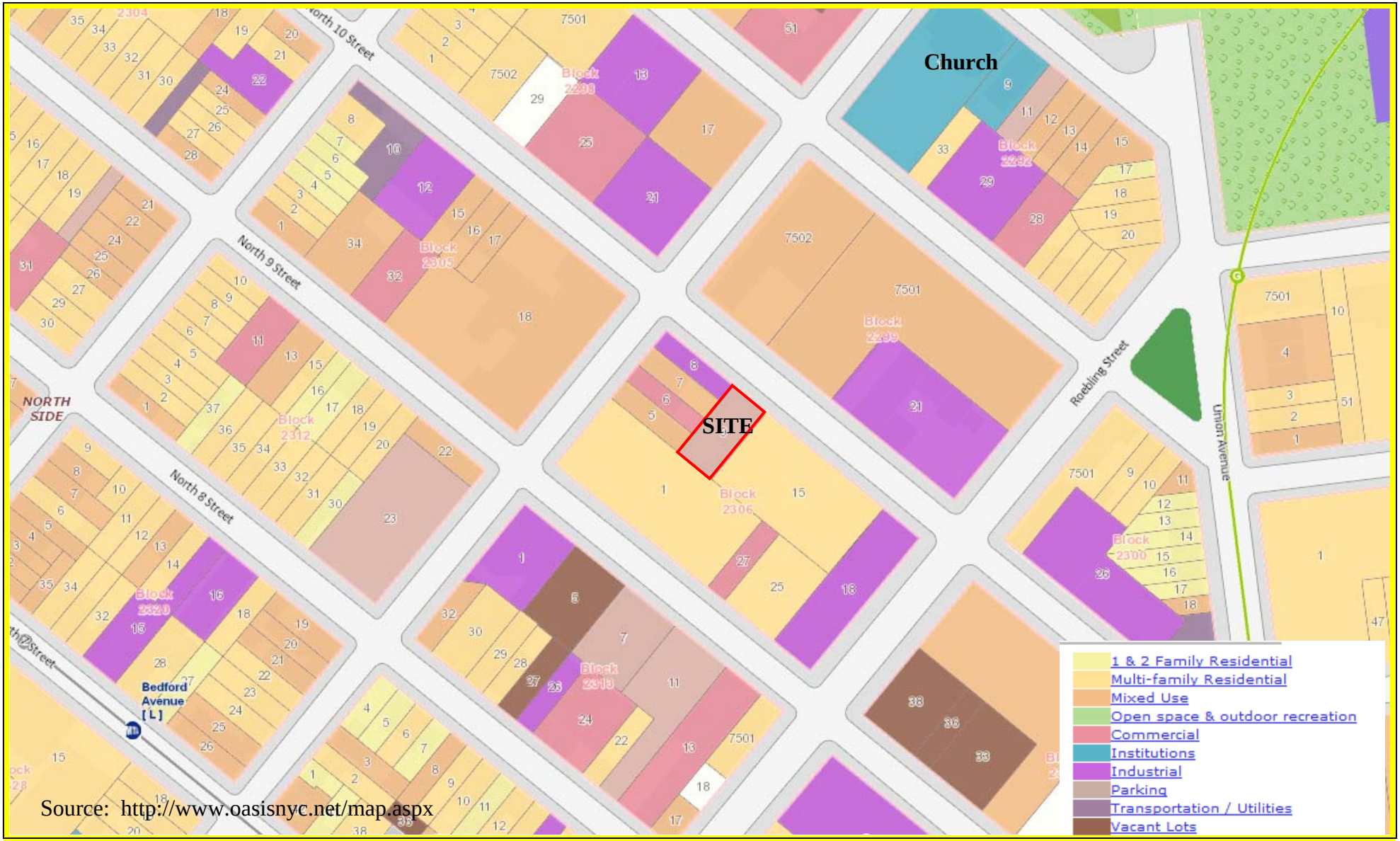
202 N 10TH STREET
BROOKLYN, NY 11211

FIGURE 3 REDEVELOPMENT PLANS



Source: http://www.oasisnyc.net/map.aspx

FIGURE 4
SURROUNDING LAND USE MAP

202 N 10TH STREET, BROOKLYN NY 11211

HAZARDOUS MATERIALS REMEDIAL INVESTIGATION REPORT

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870

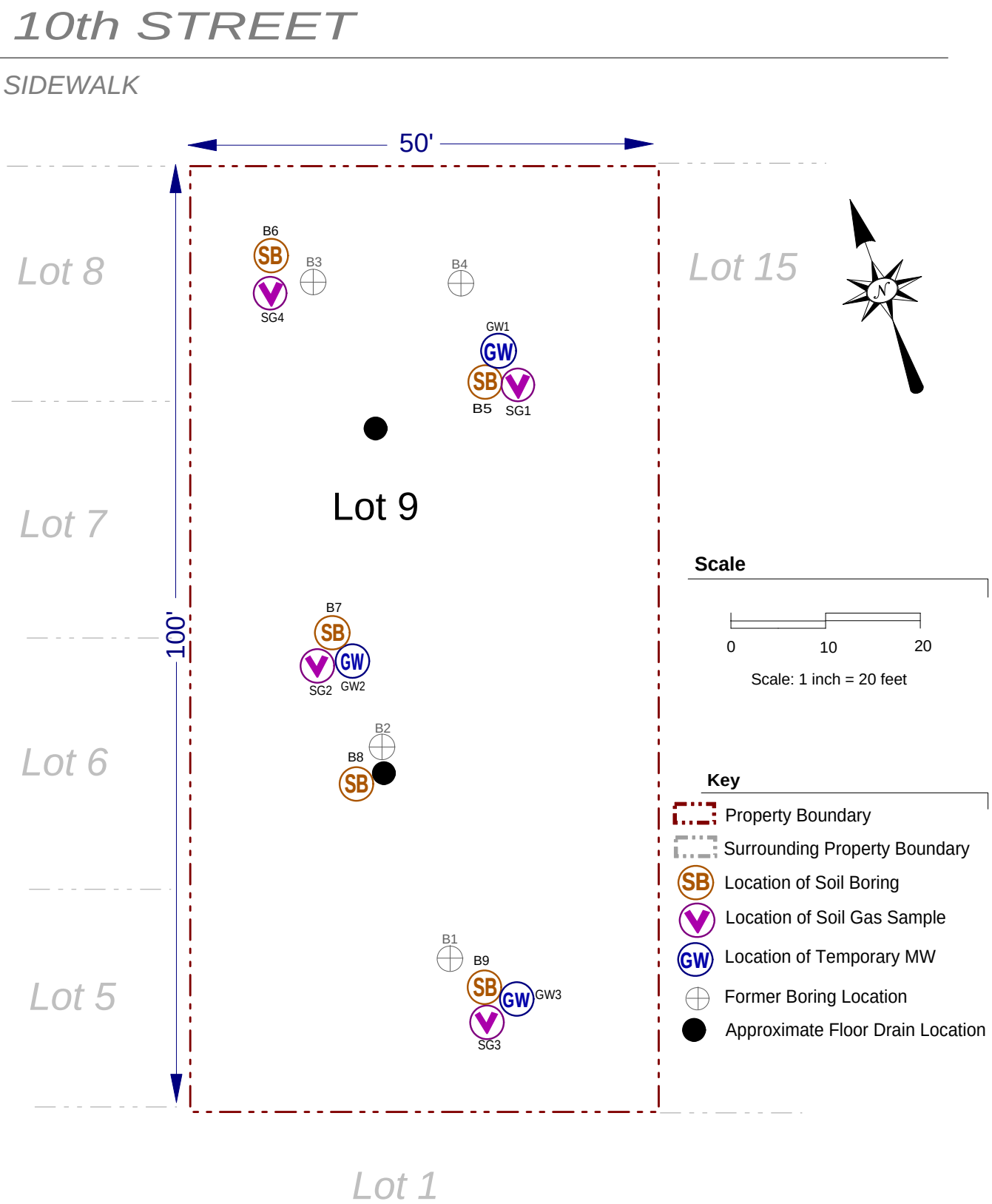


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Figure No. 5

Site Name: Redevelopment Project
Site Address: 202 N 10th Street, Brooklyn, NY
Drawing Title: Site Sampling Map

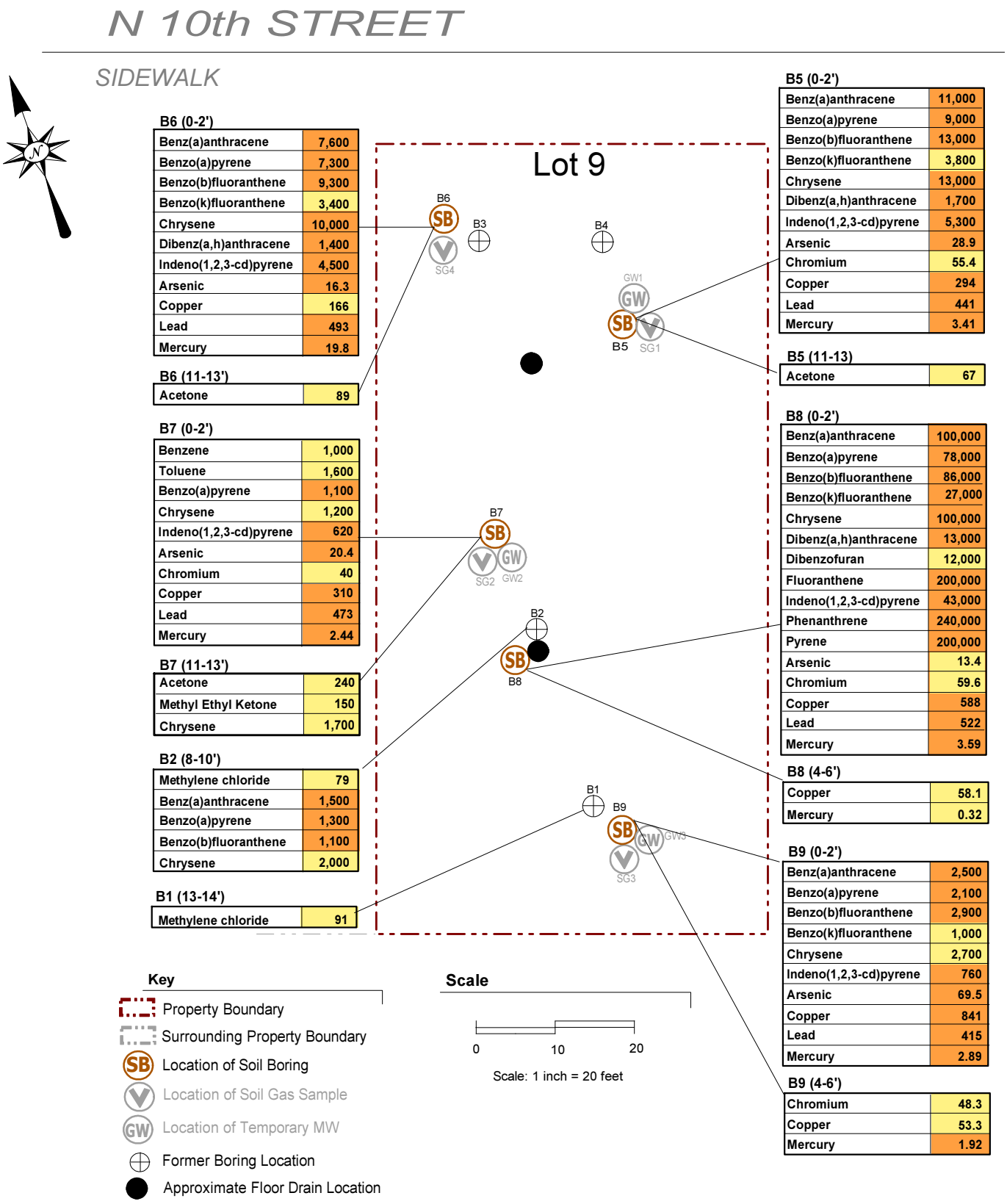

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Figure No. 6

Site Name: REDEVELOPMENT PROJECT
Site Address: 202 N 10TH STREET, BROOKLYN, NY
Drawing Title: SOIL EXCEEDENCES MAP

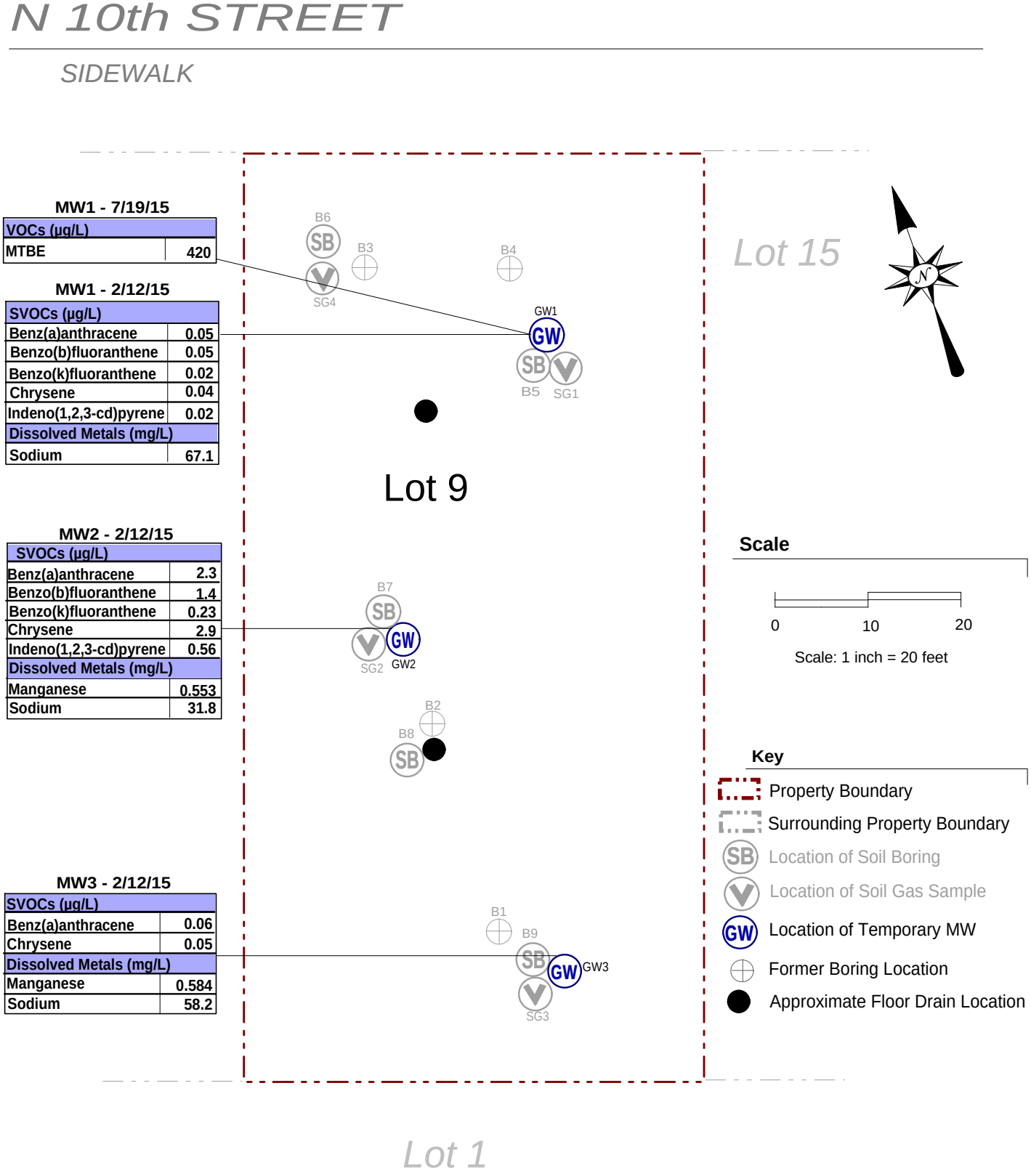

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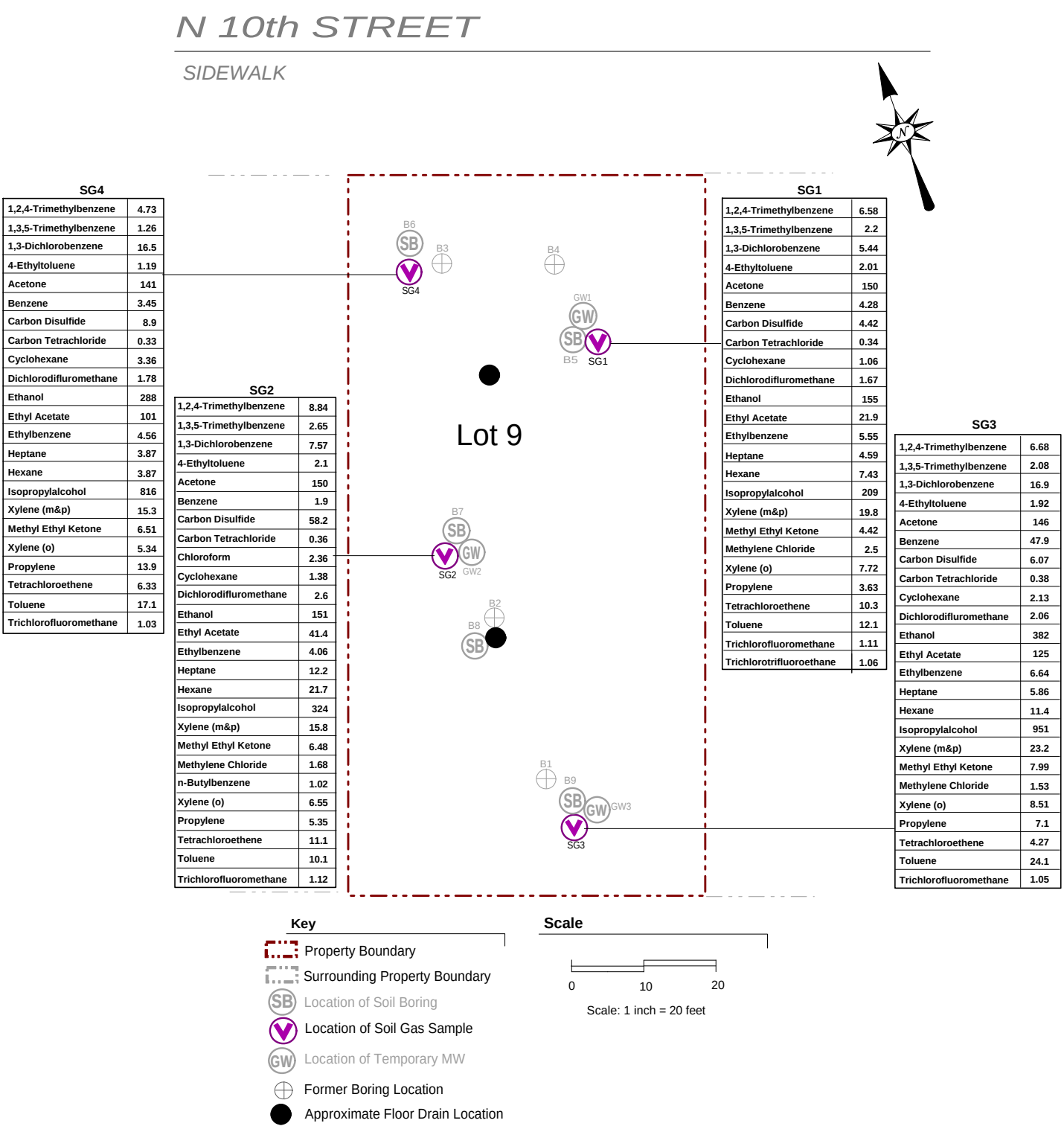
Figure No. 7

Site Name: Redevelopment Project
Site Address: 202 N 10th Street, Brooklyn, NY
Drawing Title: Ground Water Exceedences



SG4

1,2,4-Trimethylbenzene	4.73
1,3,5-Trimethylbenzene	1.26
1,3-Dichlorobenzene	16.5
4-Ethyltoluene	1.19
Acetone	141
Benzene	3.45
Carbon Disulfide	8.9
Carbon Tetrachloride	0.33
Cyclohexane	3.36
Dichlorodifluromethane	1.78
Ethanol	288
Ethyl Acetate	101
Ethylbenzene	4.56
Heptane	3.87
Hexane	3.87
Isopropylalcohol	816
Xylene (m&p)	15.3
Methyl Ethyl Ketone	6.51
Xylene (o)	5.34
Propylene	13.9
Tetrachloroethene	6.33
Toluene	17.1
Trichlorofluoromethane	1.03

SG2

1,2,4-Trimethylbenzene	8.84
1,3,5-Trimethylbenzene	2.65
1,3-Dichlorobenzene	7.57
4-Ethyltoluene	2.1
Acetone	150
Benzene	1.9
Carbon Disulfide	58.2
Carbon Tetrachloride	0.36
Chloroform	2.36
Cyclohexane	1.38
Dichlorodifluromethane	2.6
Ethanol	151
Ethyl Acetate	41.4
Ethylbenzene	4.06
Heptane	12.2
Hexane	21.7
Isopropylalcohol	324
Xylene (m&p)	15.8
Methyl Ethyl Ketone	6.48
Methylene Chloride	1.68
n-Butylbenzene	1.02
Xylene (o)	6.55
Propylene	5.35
Tetrachloroethene	11.1
Toluene	10.1
Trichlorofluoromethane	1.12

SG1

1,2,4-Trimethylbenzene	6.58
1,3,5-Trimethylbenzene	2.2
1,3-Dichlorobenzene	5.44
4-Ethyltoluene	2.01
Acetone	150
Benzene	4.28
Carbon Disulfide	4.42
Carbon Tetrachloride	0.34
Cyclohexane	1.06
Dichlorodifluromethane	1.67
Ethanol	155
Ethyl Acetate	21.9
Ethylbenzene	5.55
Heptane	4.59
Hexane	7.43
Isopropylalcohol	209
Xylene (m&p)	19.8
Methyl Ethyl Ketone	4.42
Methylene Chloride	2.5
Xylene (o)	7.72
Propylene	3.63
Tetrachloroethene	10.3
Toluene	12.1
Trichlorofluoromethane	1.11
Trichlorotrifluoroethane	1.06

SG3

1,2,4-Trimethylbenzene	6.68
1,3,5-Trimethylbenzene	2.08
1,3-Dichlorobenzene	16.9
4-Ethyltoluene	1.92
Acetone	146
Benzene	47.9
Carbon Disulfide	6.07
Carbon Tetrachloride	0.38
Cyclohexane	2.13
Dichlorodifluromethane	2.06
Ethanol	382
Ethyl Acetate	125
Ethylbenzene	6.64
Heptane	5.86
Hexane	11.4
Isopropylalcohol	951
Xylene (m&p)	23.2
Methyl Ethyl Ketone	7.99
Methylene Chloride	1.53
Xylene (o)	8.51
Propylene	7.1
Tetrachloroethene	4.27
Toluene	24.1
Trichlorofluoromethane	1.05

Key

- Property Boundary
- Surrounding Property Boundary
- SB — Location of Soil Boring
- Location of Soil Gas Sample
- GW — Location of Temporary MW
- Former Boring Location
- Approximate Floor Drain Location

Scale

0 10 20

Scale: 1 inch = 20 feet

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Figure No. 8

Site Name: REDEVELOPMENT PROJECT
Site Address: 202 N 10TH STREET, BROOKLYN, NY
Drawing Title: SOIL VAPOR DETECTIONS

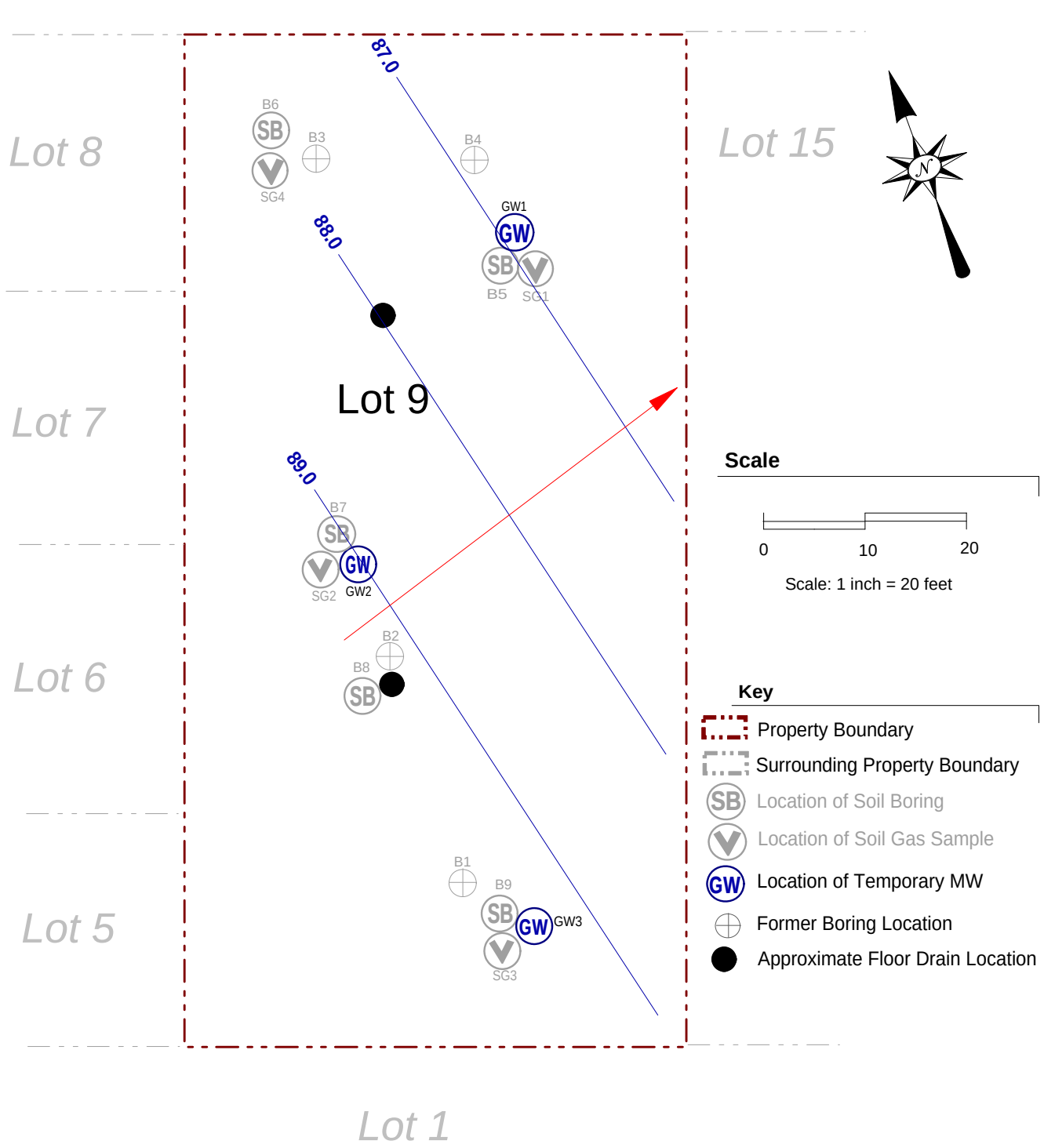

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Figure No. 9

Site Name: REDEVELOPMENT PROJECT
Site Address: 202 N 10TH STREET, BROOKLYN, NY
Drawing Title: GROUND WATER CONTOUR MAP

ATTACHMENT A
Phase I Report

PHASE I Screening Summary
202 N 10th Street, Brooklyn, New York
Block 2306 Lot 9

Lot Info:
The subject site consists of one parcel located on the south side of N 10th Street in the Williamsburg neighborhood of Brooklyn, New York (Figure 1). The subject site identified as Block 2306, Lot 9 (Figure 2) on the NYC Tax Map. The Site contains 50 feet of street frontage along N 10th Street and extends 100 feet deep for a total area of 5,000 square feet (sf).

The Site is zoned M1-2/R6A and is improved with a one-story commercial use (vacant). According to EBC's historic information search, the existing commercial building at the Site was developed in 1970.

History:
Site history was based on a review of historic aerial photographs, Sanborn maps and city directories. The Site is identified on Sanborn maps as 208-210 N 10th Street. According to the Sanborn maps, the Site appears to have been originally developed sometime between 1887 and 1905 with two, one-story structures identified as sheds with an office, and an attached two-story structure in the southern rear portion of the lot. The Site appears to have been redeveloped in 1970 with the currently existing, one-story industrial warehouse building (no basement). The Site was identified on the Sanborn maps as a private garage (1951, 1965), an auto repair use (1978) and a warehouse (2007).

The Site address (202 N 10th Street and 208-210 N 10th Street) is listed in the city directories with commercial uses, "Progressive Kitchen Equipment Co. Inc." (1945, 1949, 1960, 1965, 1970, 1973, 1976, 1997), "Adelphia Container Corp." (1985), "Tai Hung Trading, Inc." (1997), "Barclay Business Archives" (1992, 1997), "Montrose Equipment Sales Inc." (2005), "Eurama Food" (2005), "Racall Total Information Management" (2008), and "NY Standard Mechanical" (2013).

Site Visit:
A site visit was conducted for 202 N. 10th Street, Brooklyn by EBC on January 20, 2015.

The Site at 202 N 10th Street is currently vacant and contains a warehouse with a roll-up garage door, a small office and bathroom. The building is slab-on-grade and is heated via natural gas-fire equipment. A floor drain and cleanout were observed in the warehouse portion of the building. According to the building tenant, the floor drain is hard piped to the municipal sewer. No aboveground storage tanks or evidence of underground storage tanks (e.g. fill port, vent pipe) were observed by or reported to EBC. The building utilizes municipal water and is connected to the municipal sewer system. Evidence of water intrusion (i.e. water stains) was apparent on

ceiling tiles in the office. No areas of mold were observed. Some minor staining was observed on the concrete warehouse floor during the inspection. The staining appeared to have been associated with automotive fluids.

Environmental Database Search:
The Site address (202 N 10th Street) is as an E-Designation site for Hazmat. The Hazmat designation was assigned based on the historical presence of an auto repair shop on site and on adjoining lots.

The Site was not listed in the database for any spills, release or underground tanks.

NYC DOB
The Site address at 202 N 10th Street does not have any open violations listed on file with NYC Department of Buildings (NYCDOB) Environmental Control Board (ECB). The Site has one complaint listed on file and is associated with unsafe demolition conditions in June of 2008 and is no longer open. No violations are listed on file for 202 N 10th Street. The property at 202 N 10th Street was assigned an E-designation Hazmat (E-138).

Conclusions/Recommendations

Based upon reconnaissance of the subject site and surrounding properties, and review of historical records and regulatory agency databases, No Recognized Environmental Conditions (RECs) were identified for the property.

The following environmental issues were identified for the Site:

The Site (202 N 10th Street) has been assigned an E-designation (E-138) for Hazmat as part of the Greenpoint-Williamsburg rezoning action completed by the City in May 2005 (CEQR .04DCP003K). An E-designation does not interfere with the present use of the Site; however E-designations do prevent the release of building permits subject to a detailed environmental review and release by the NYC Office of Environmental Remediation. Such release may require a full subsurface investigation, remedial and health and safety planning, implementation of a remedial program and documentation that the remedial program was completed during redevelopment of the property.

Typical NYCOER Phase II investigation/sampling requirements for hazmat “E” sites are as follows:

- Collection and laboratory analysis of for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), target analyte list (TAL) metals, PCBs and pesticides.
- Collection and laboratory analysis of groundwater samples for VOCs, SVOCs, TAL metals (filtered and unfiltered), PCBs and pesticides.
- Collection and laboratory analysis of soil gas samples for laboratory analysis of VOCs via EPA Method TO-15.

The E-designation will require environmental review and issuance of a Notice to Proceed (NTP) from the NYCOER before building permits will be issued.

Minor Staining
Some minor staining was observed on the concrete warehouse floor the during the inspection. The staining appeared to have been associated with automotive fluids. The staining observed in the warehouse is considered a *de minimus* issue. The concrete floor was observed to be in general good condition; therefore, the minor amount of staining is not anticipated to be a significant environmental concern.

Asbestos and Lead Based Paint
Based on the date of construction of the building (1970), asbestos containing materials (roof, roof flashing, floor tiles, drywall and other concealed materials) and or lead based paint may be present. All suspect materials were noted to be in fair to good condition. Interior painted surfaces were observed to be in generally good condition, with the exception of chipping paint on the warehouse floor.

Prior to any renovations or demolition of the building, an asbestos and lead based paint survey would be needed to determine the asbestos and or lead based paint content of suspect materials.

FIGURES

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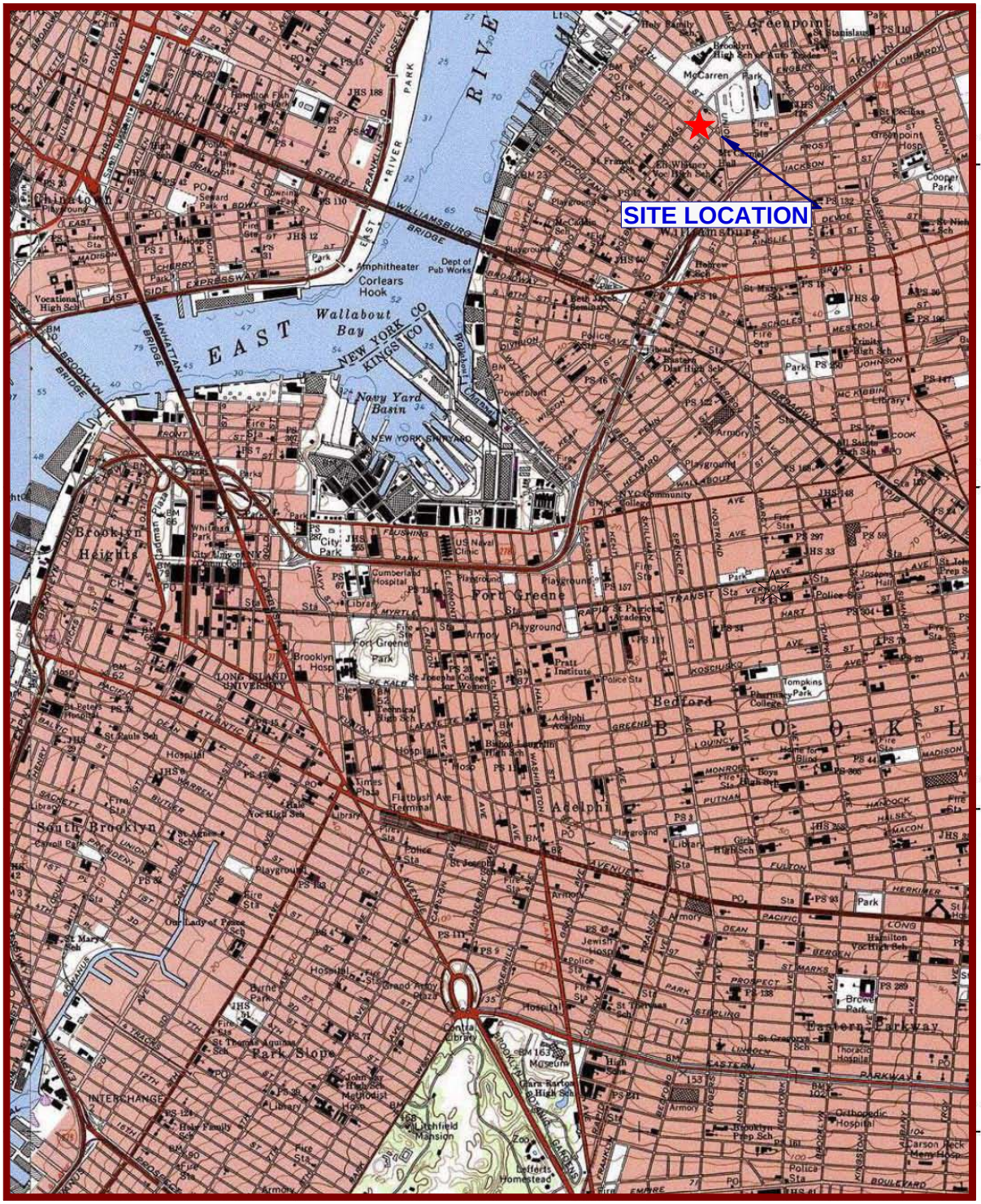

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202 N 10th Street
Brooklyn, NY

FIGURE 1 Site Location Map

EBC
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Figure No. 2

Site Name: Patoma Properties

Site Address: 202 N 10th Street, Brooklyn , NY

Drawing Title: Lot Diagram - Land Use

SANBORN MAPS

1808 Middle Country Road
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212 North 9th St
212 North 9th St
Brooklyn, NY 11211

Inquiry Number: 3672474.3
July 23, 2013

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800.352.0050
www.edrnet.com

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7/23/13

Site Name:
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212 North 9th St
Brooklyn, NY 11211

Client Name:
Env. Business Consultants
1808 Middle Country Road
Ridge, NY 11961

EDR Inquiry # 3672474.3

Contact: Chawinie Miller

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City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # FPG 1202
Project: NA
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Maps Provided:

2007	2001	1988	1980	1916
2006	1996	1987	1979	1905
2005	1995	1986	1978	1887
2004	1993	1983	1965	
2003	1991	1982	1951	
2002	1989	1981	1942	

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

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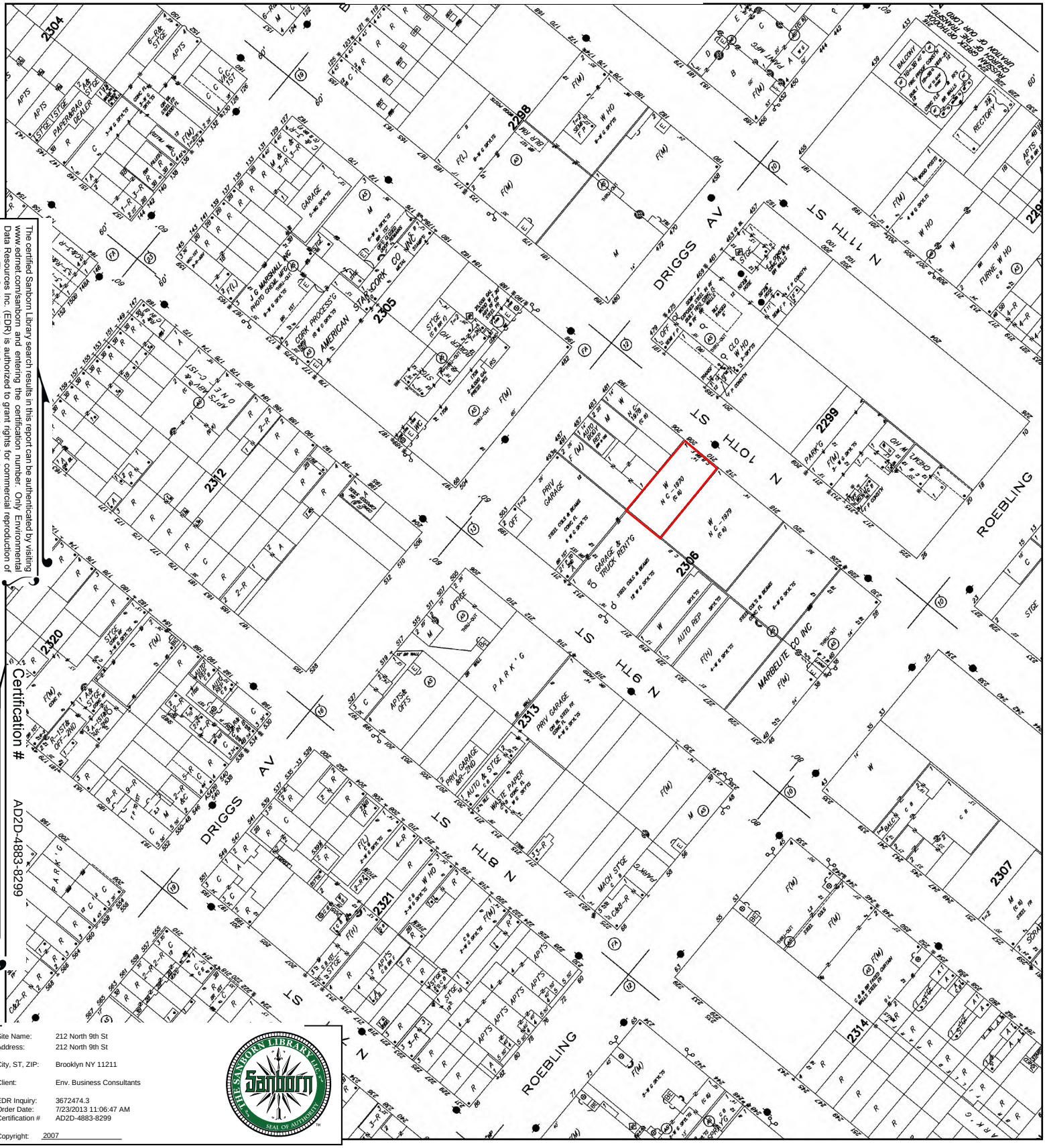

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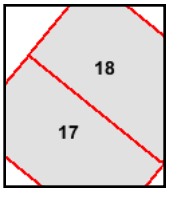

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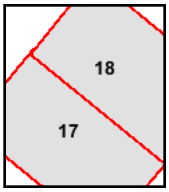

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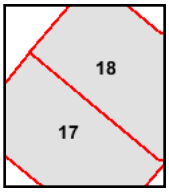

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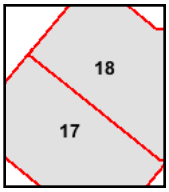

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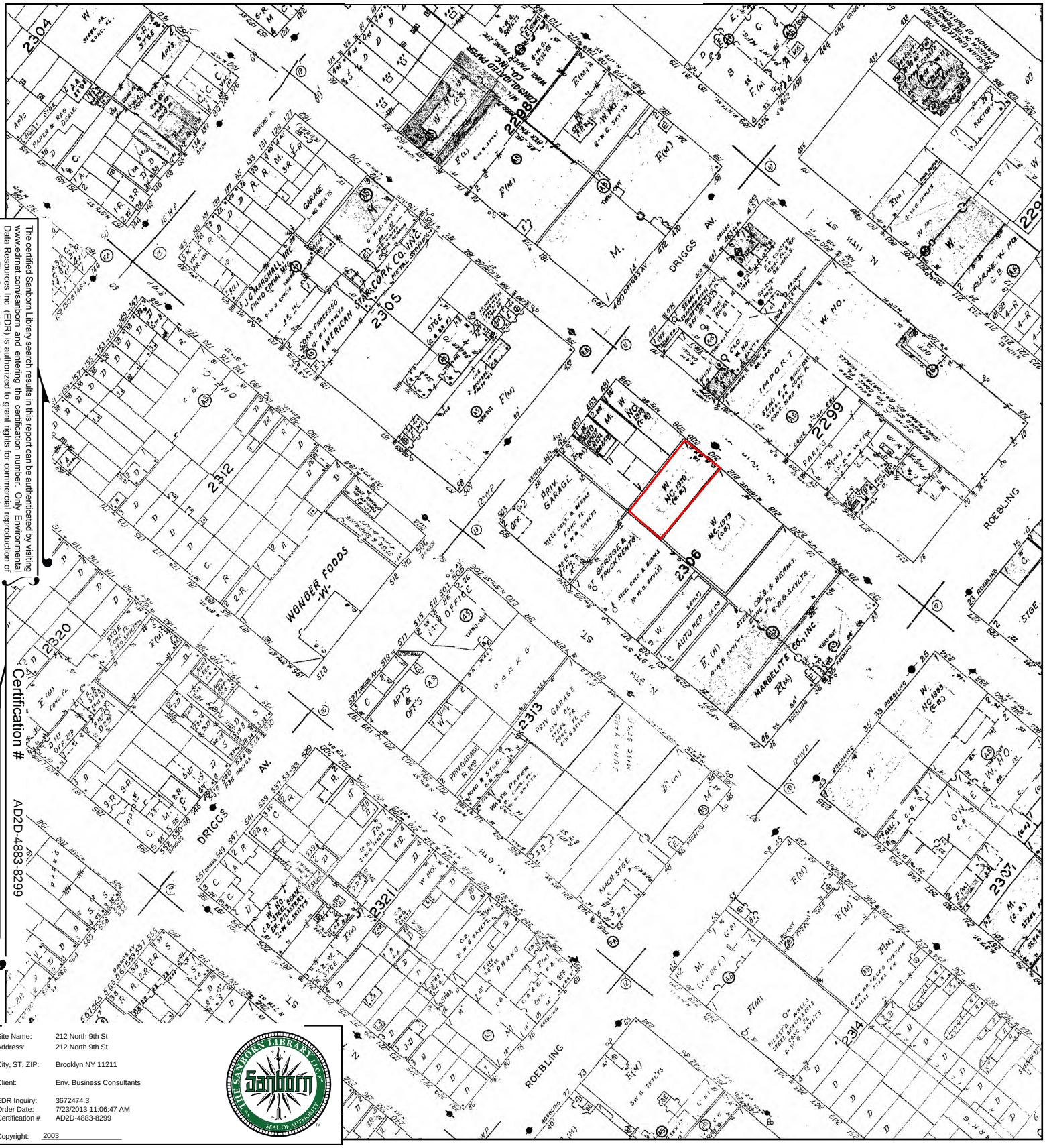

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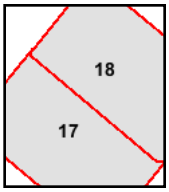

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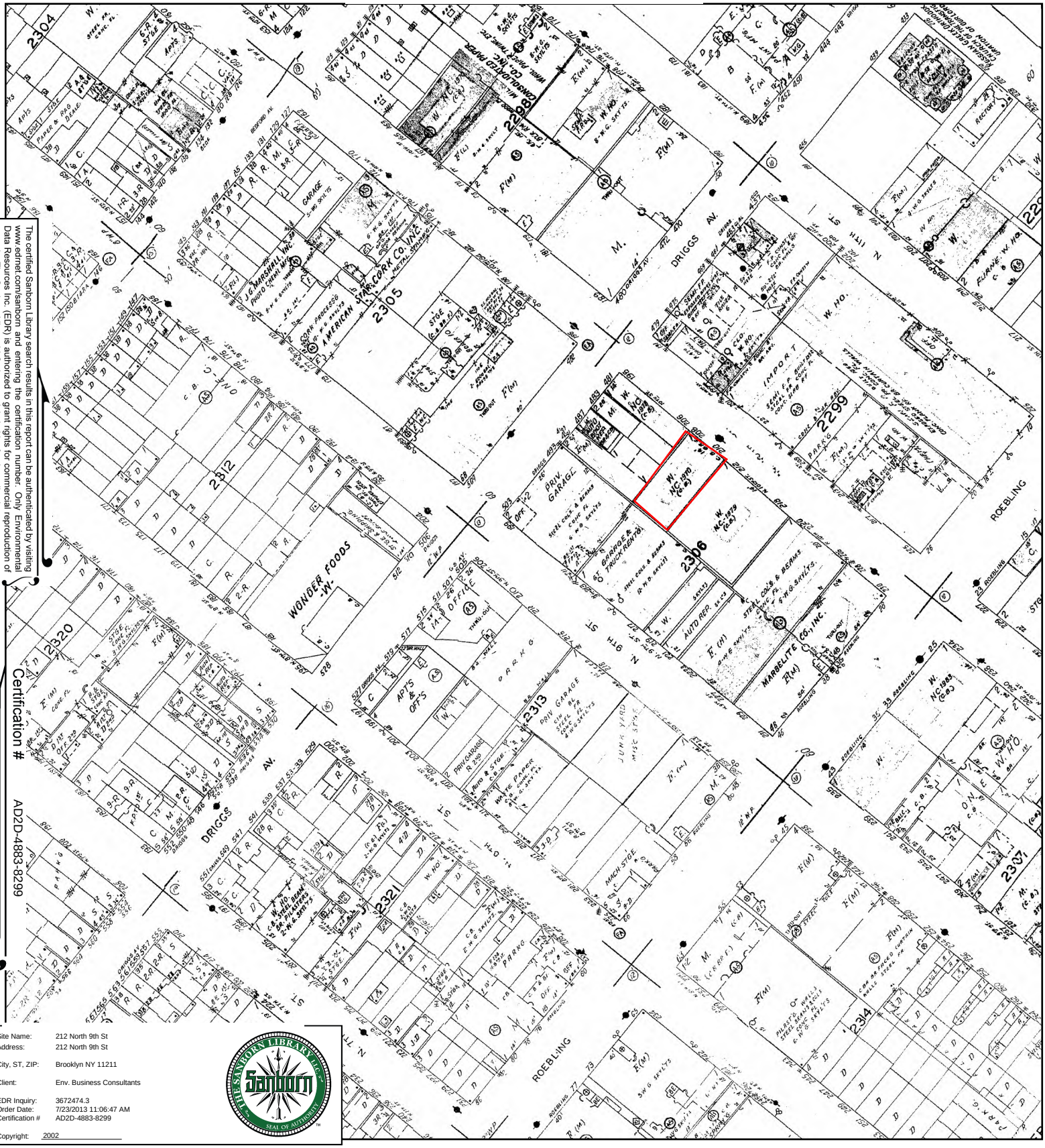

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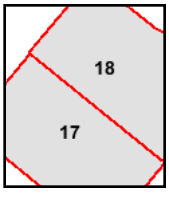

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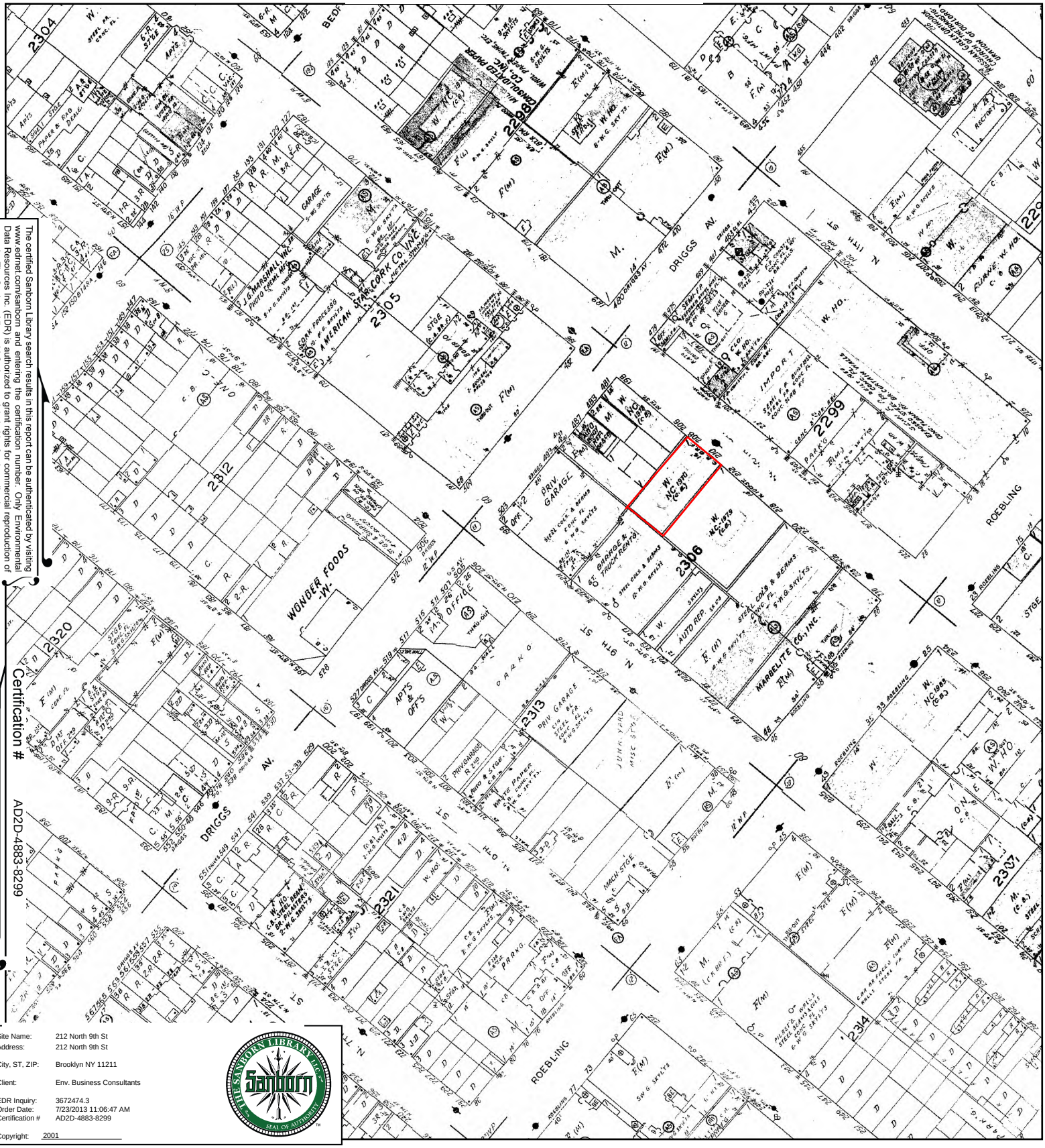

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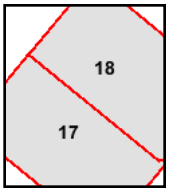

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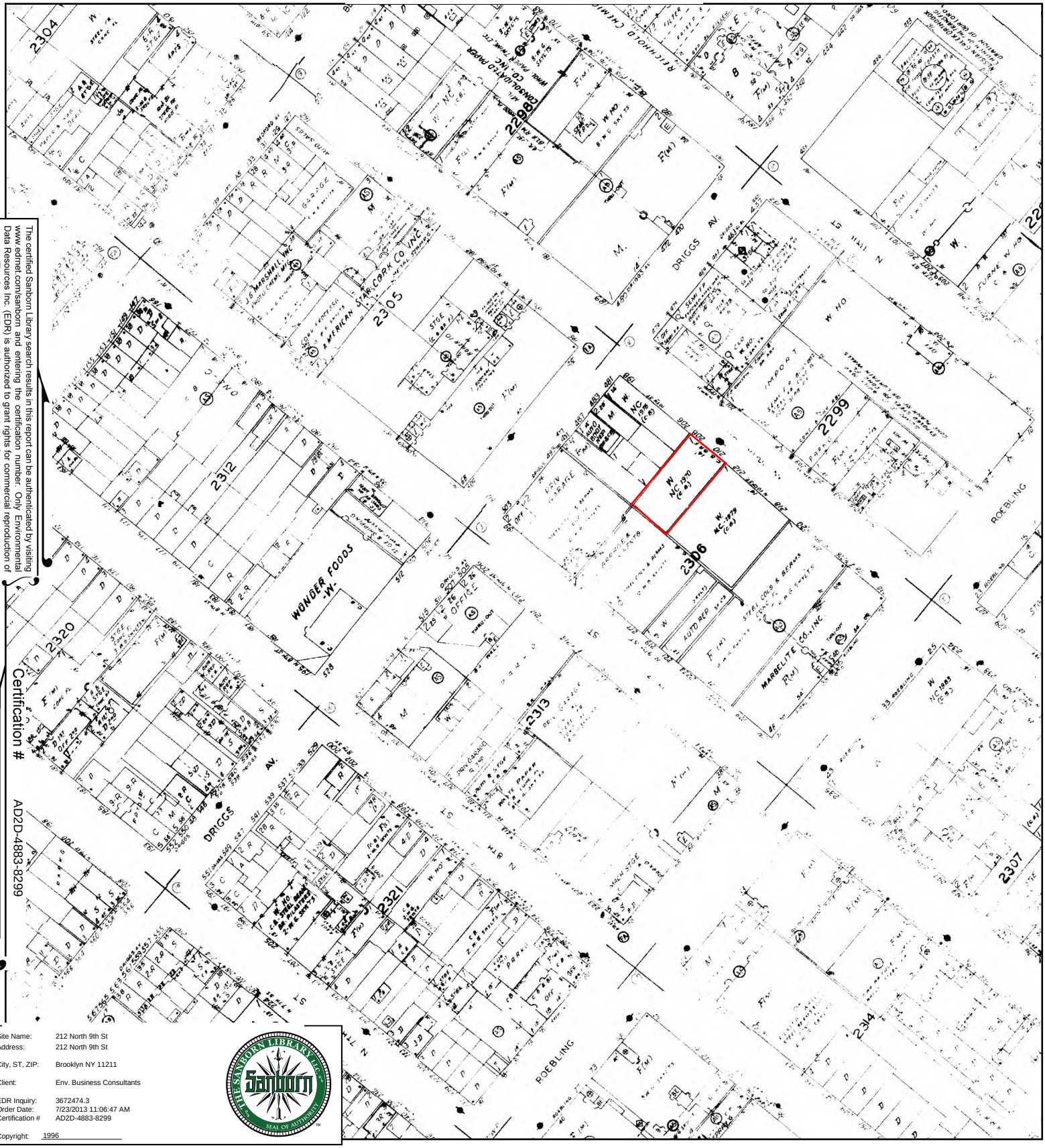

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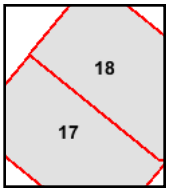

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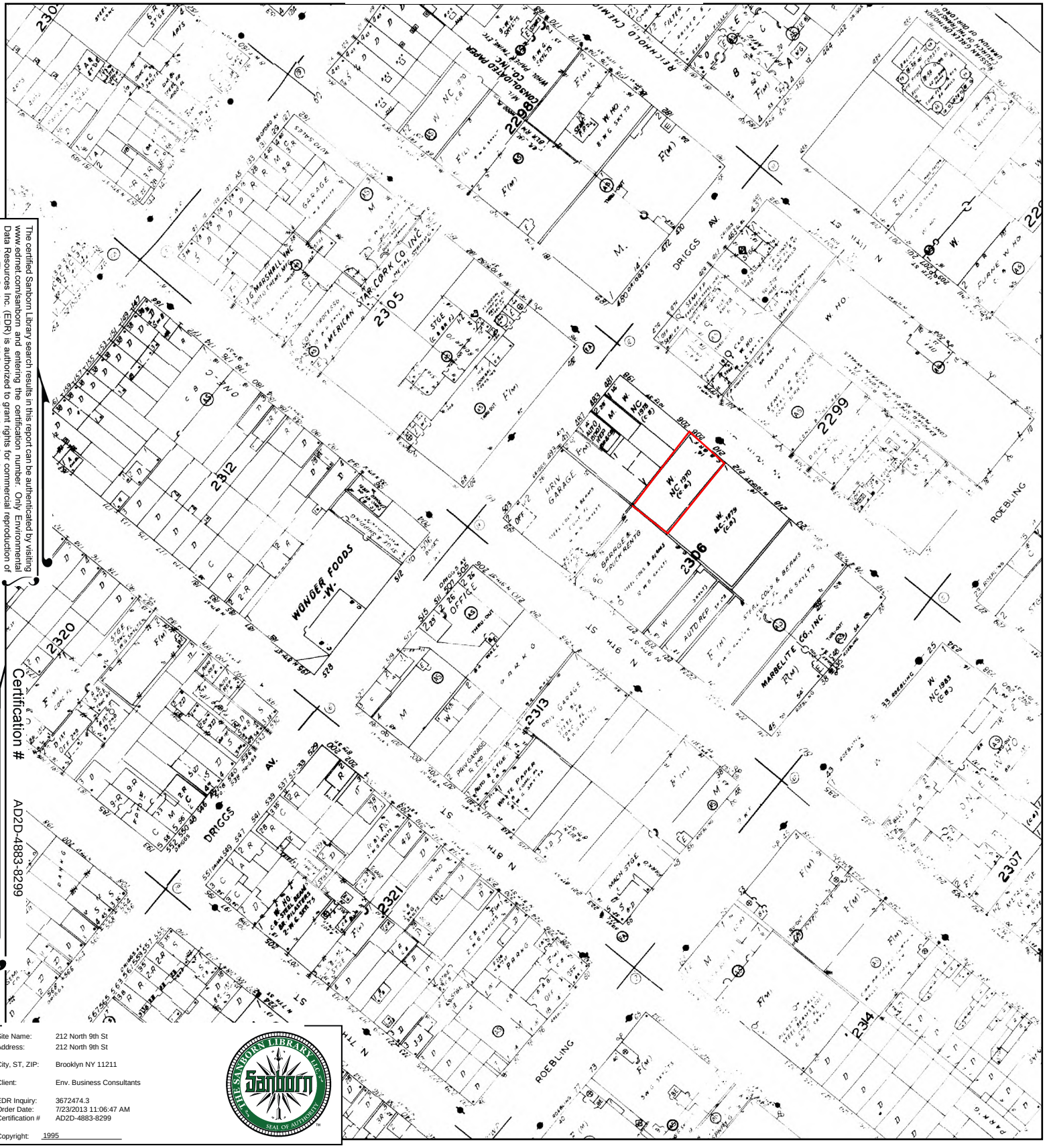

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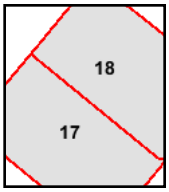

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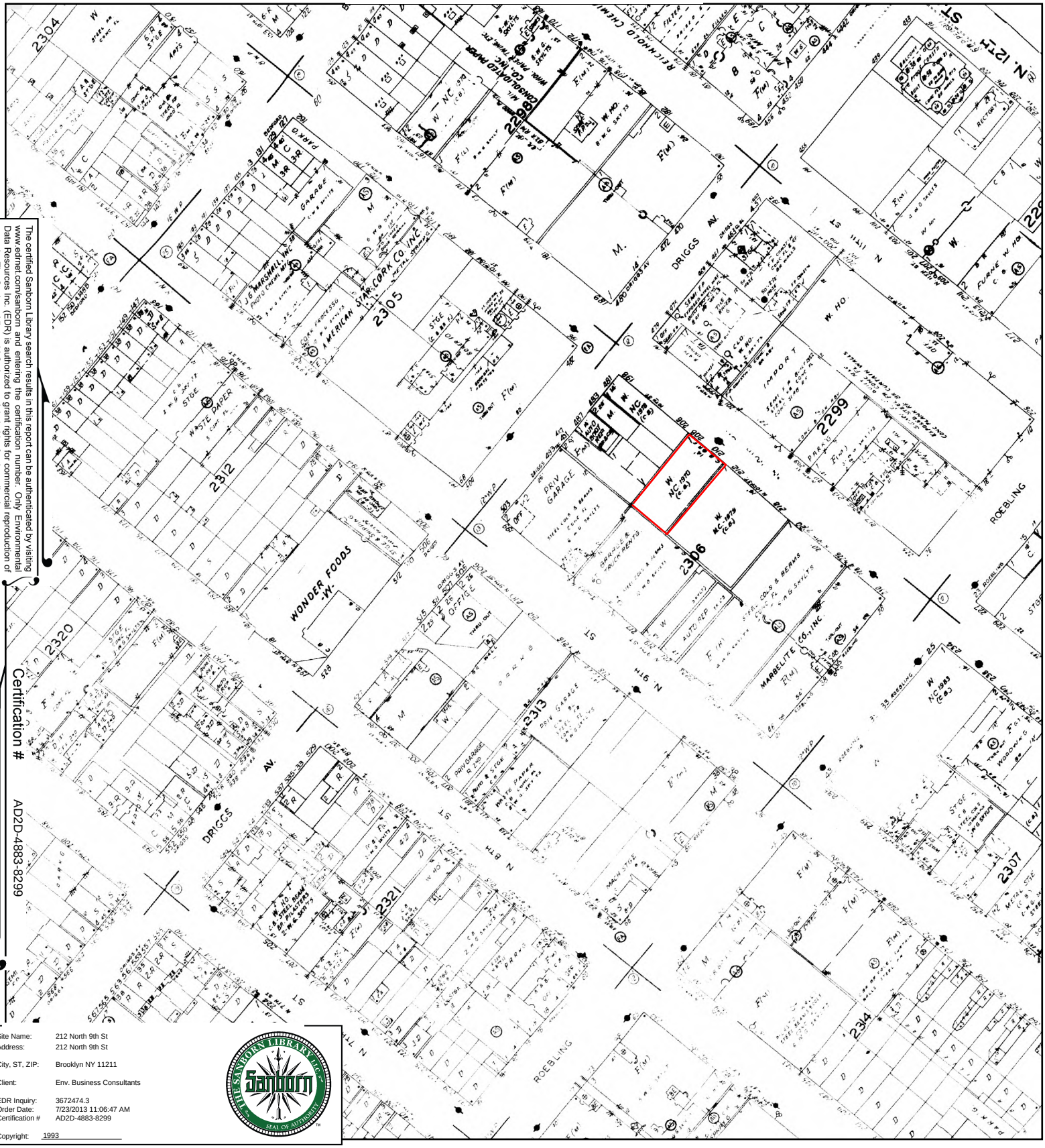

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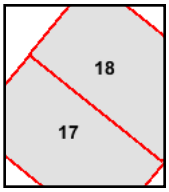

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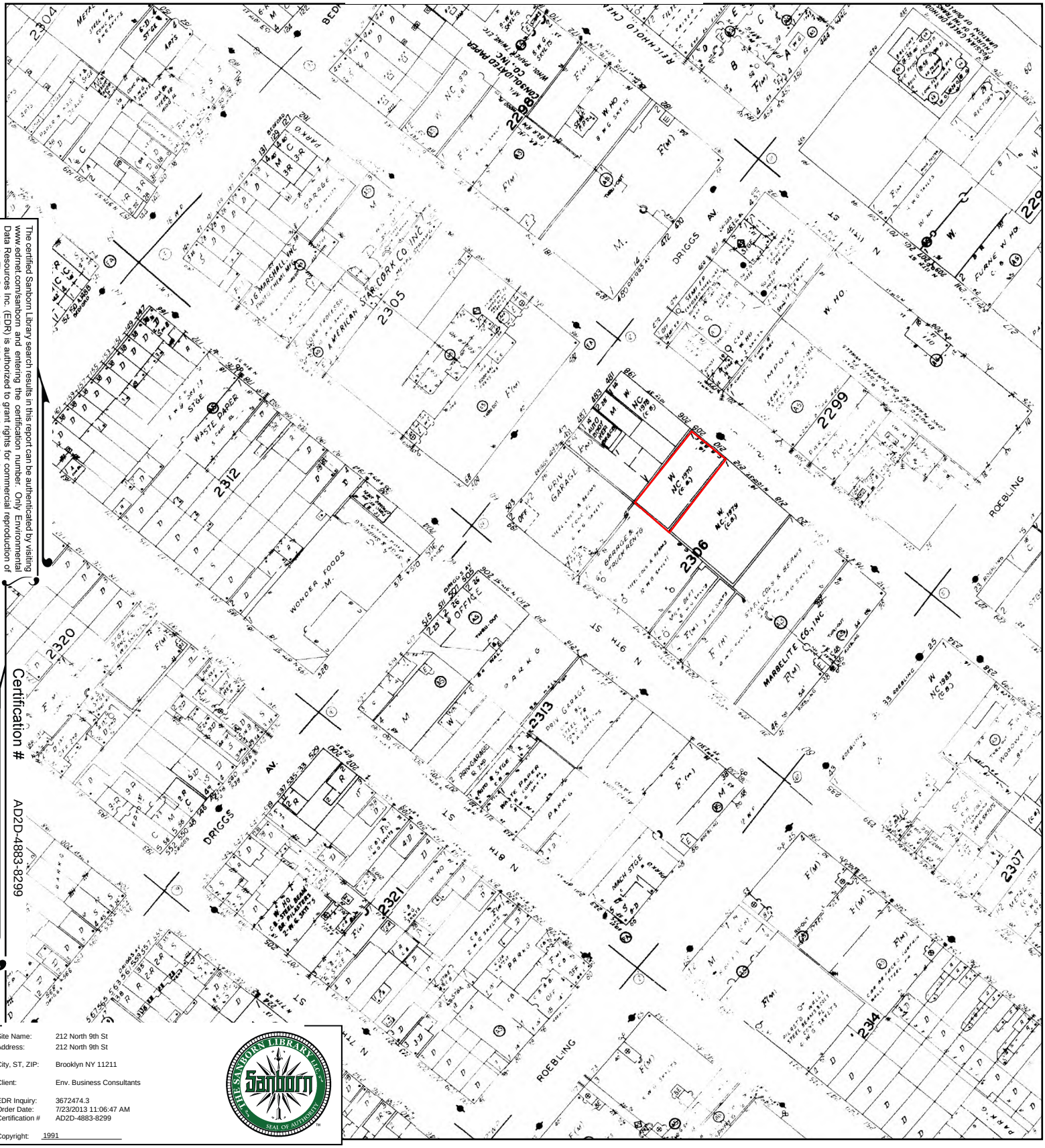

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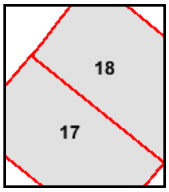

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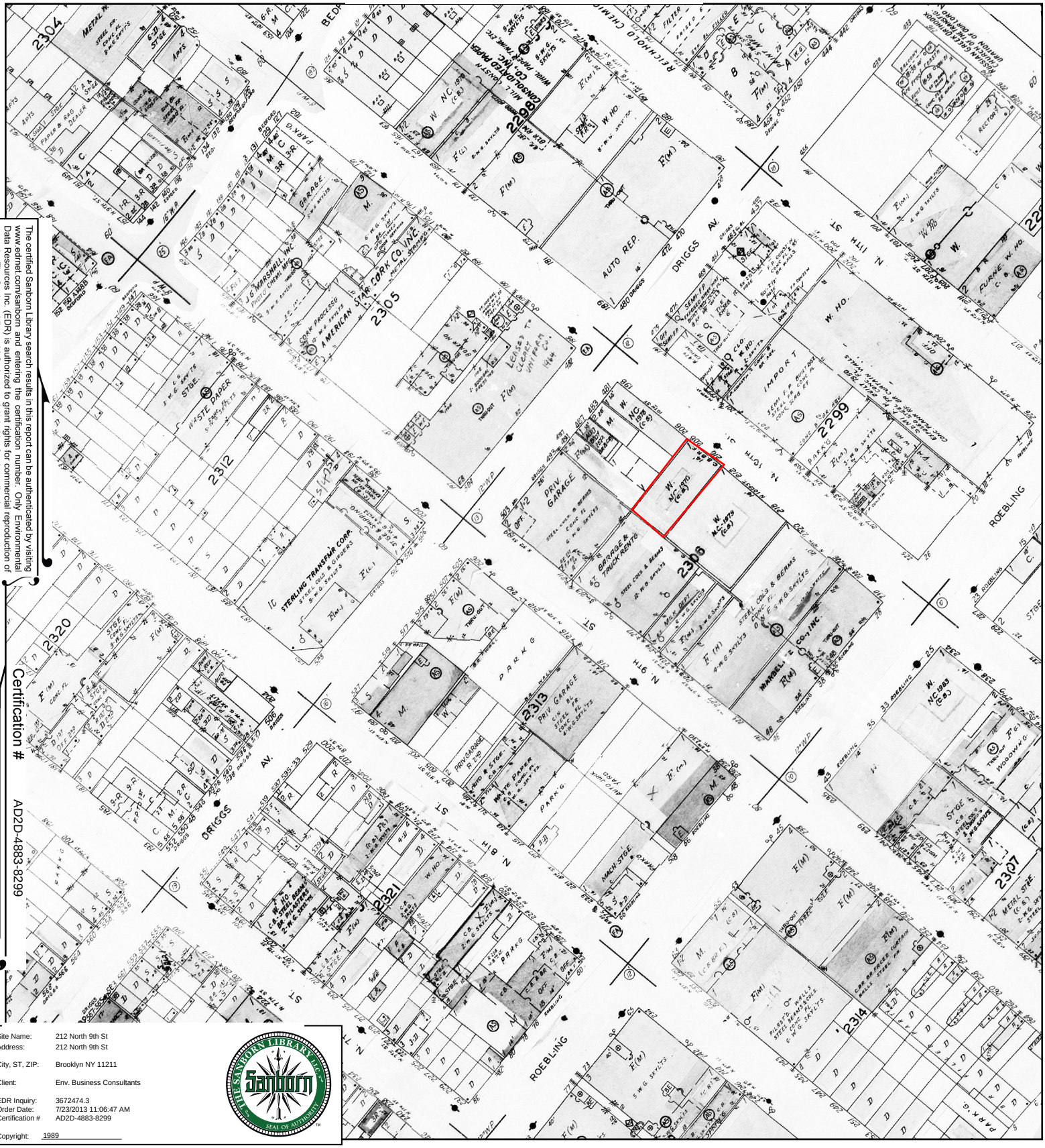

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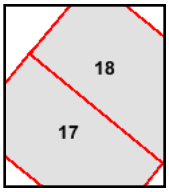

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0 Feet 150 300 600

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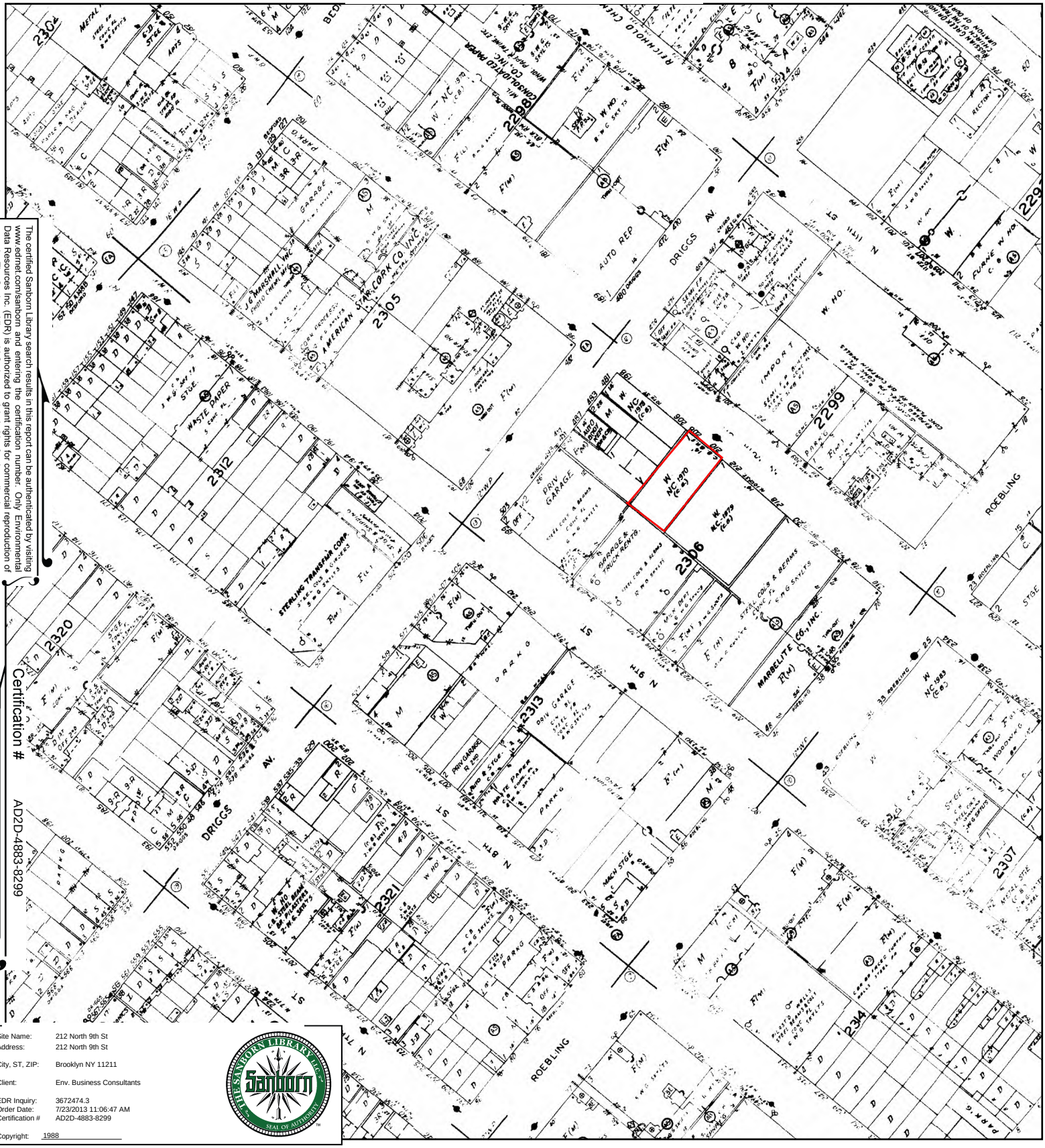
1988 Certified Sanborn Map



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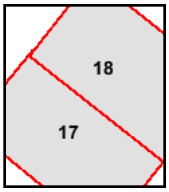

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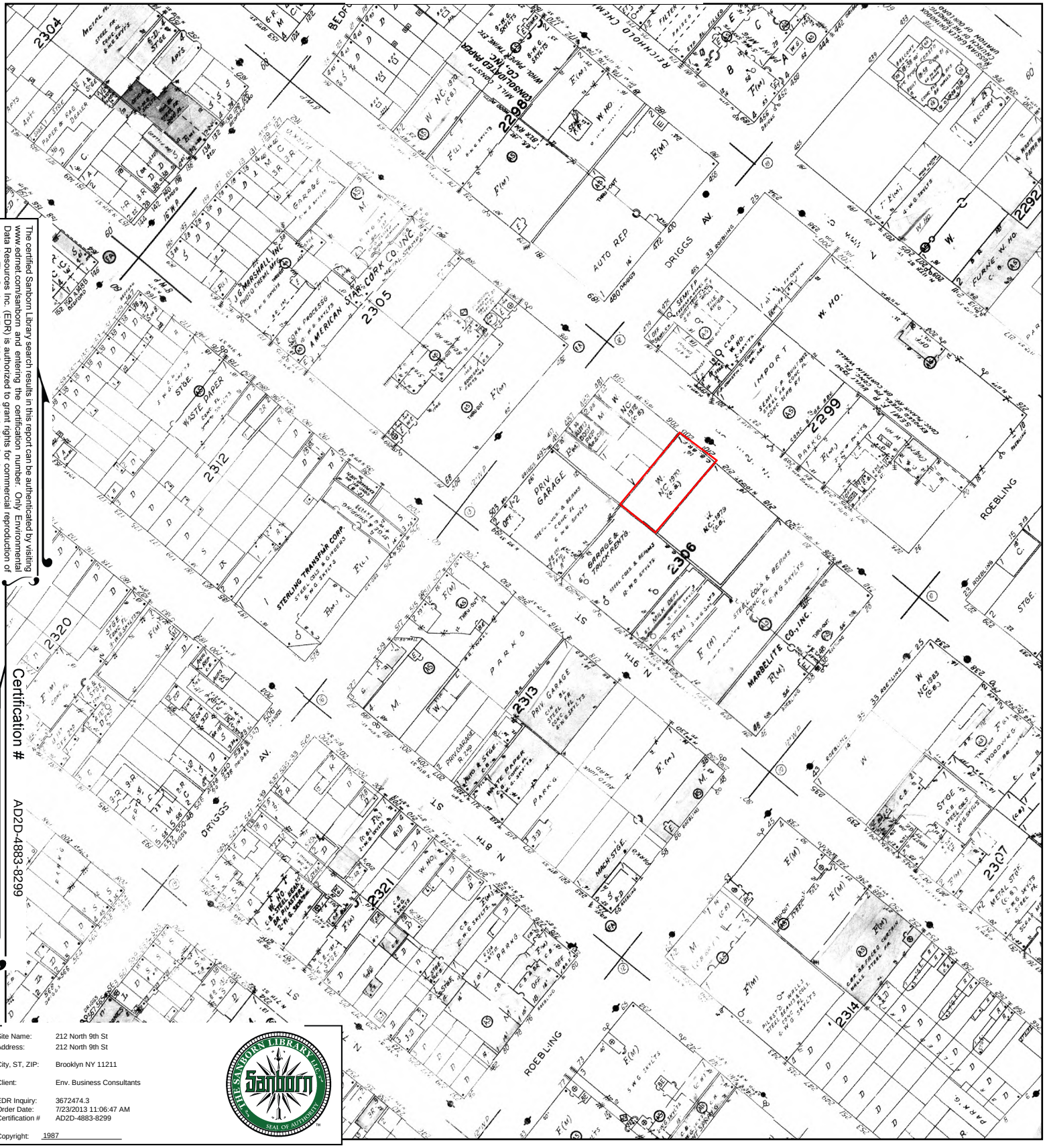

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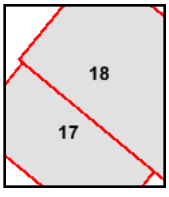

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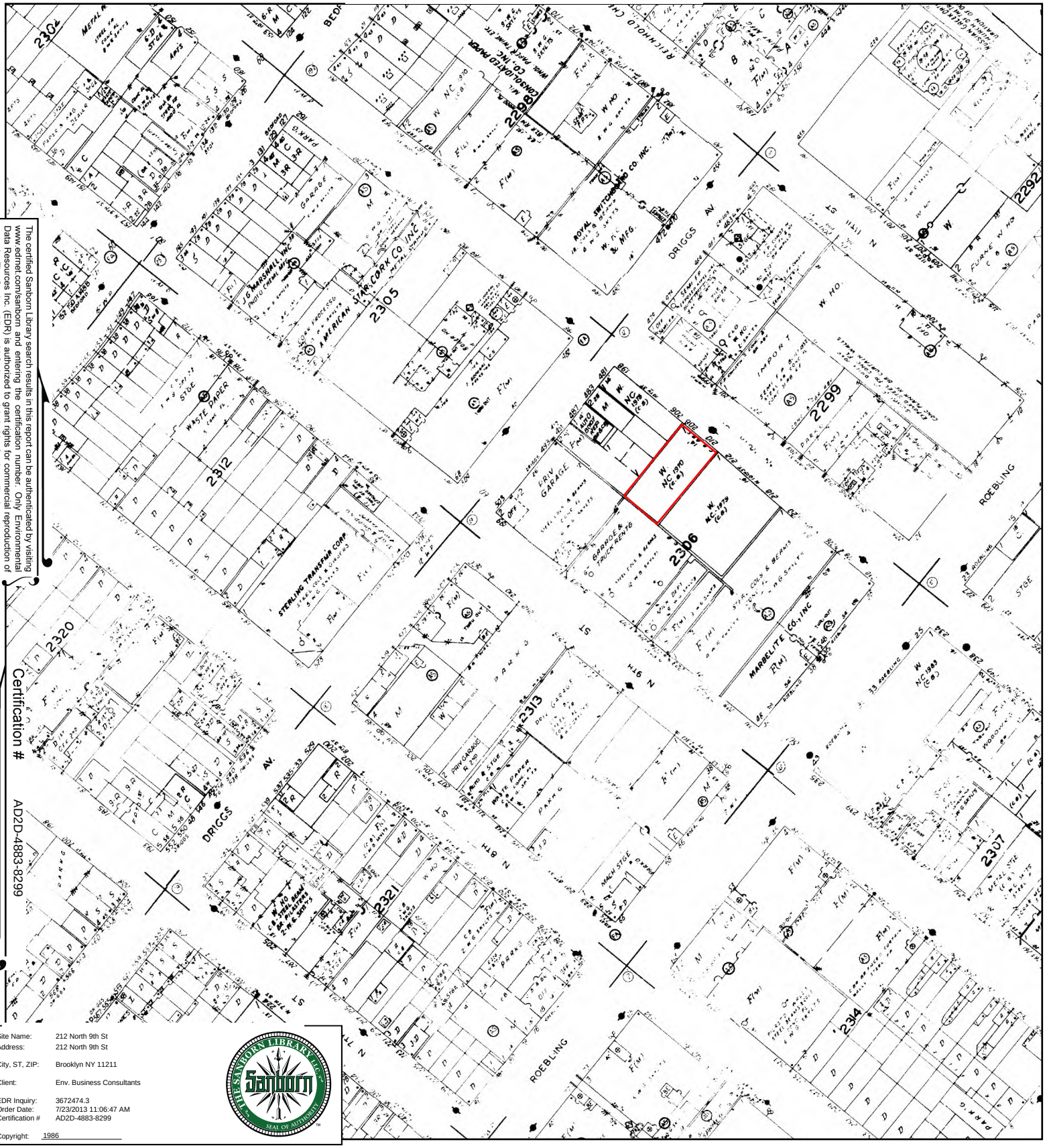

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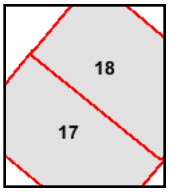

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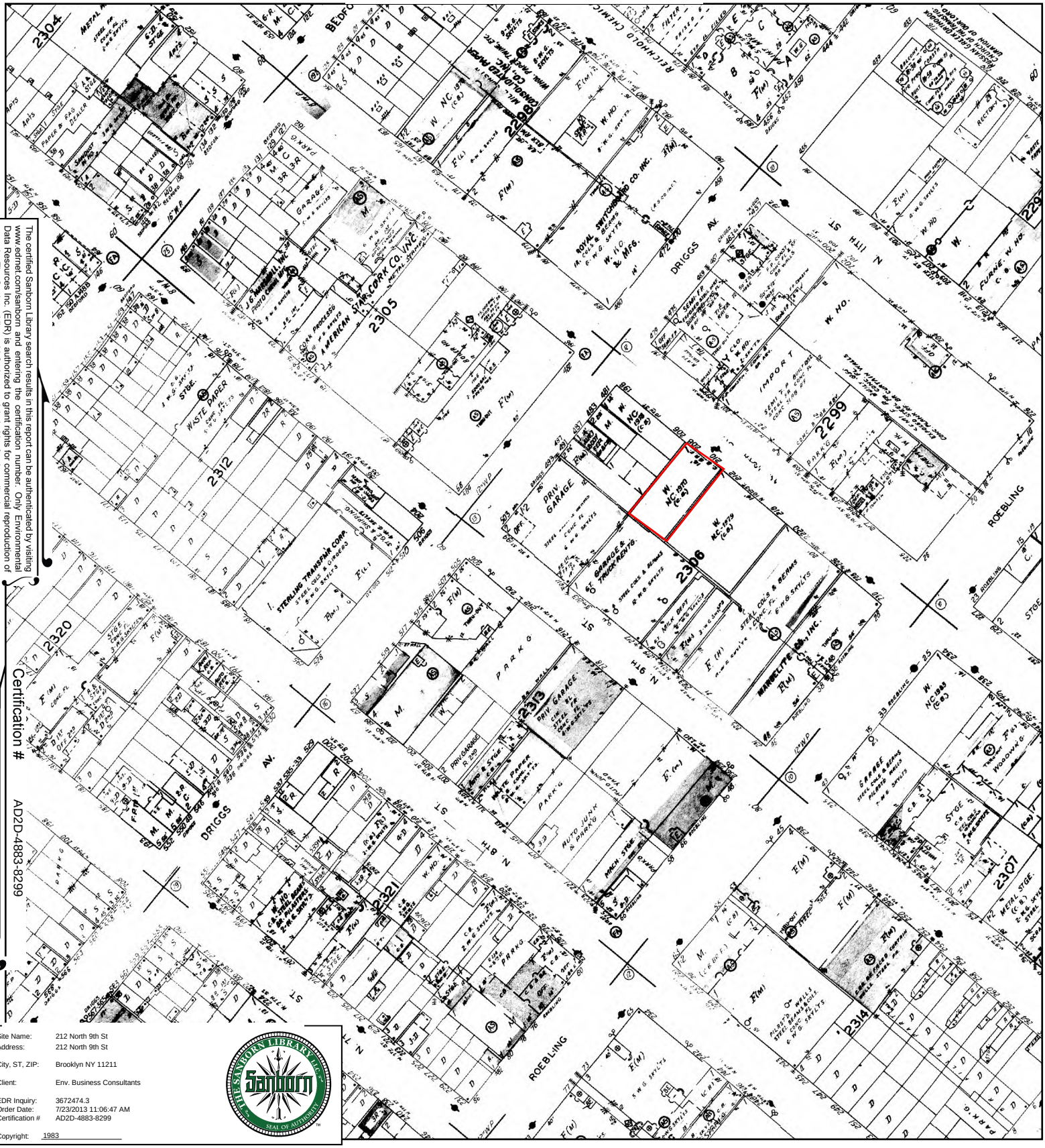
1983 Certified Sanborn Map



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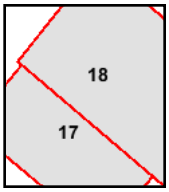

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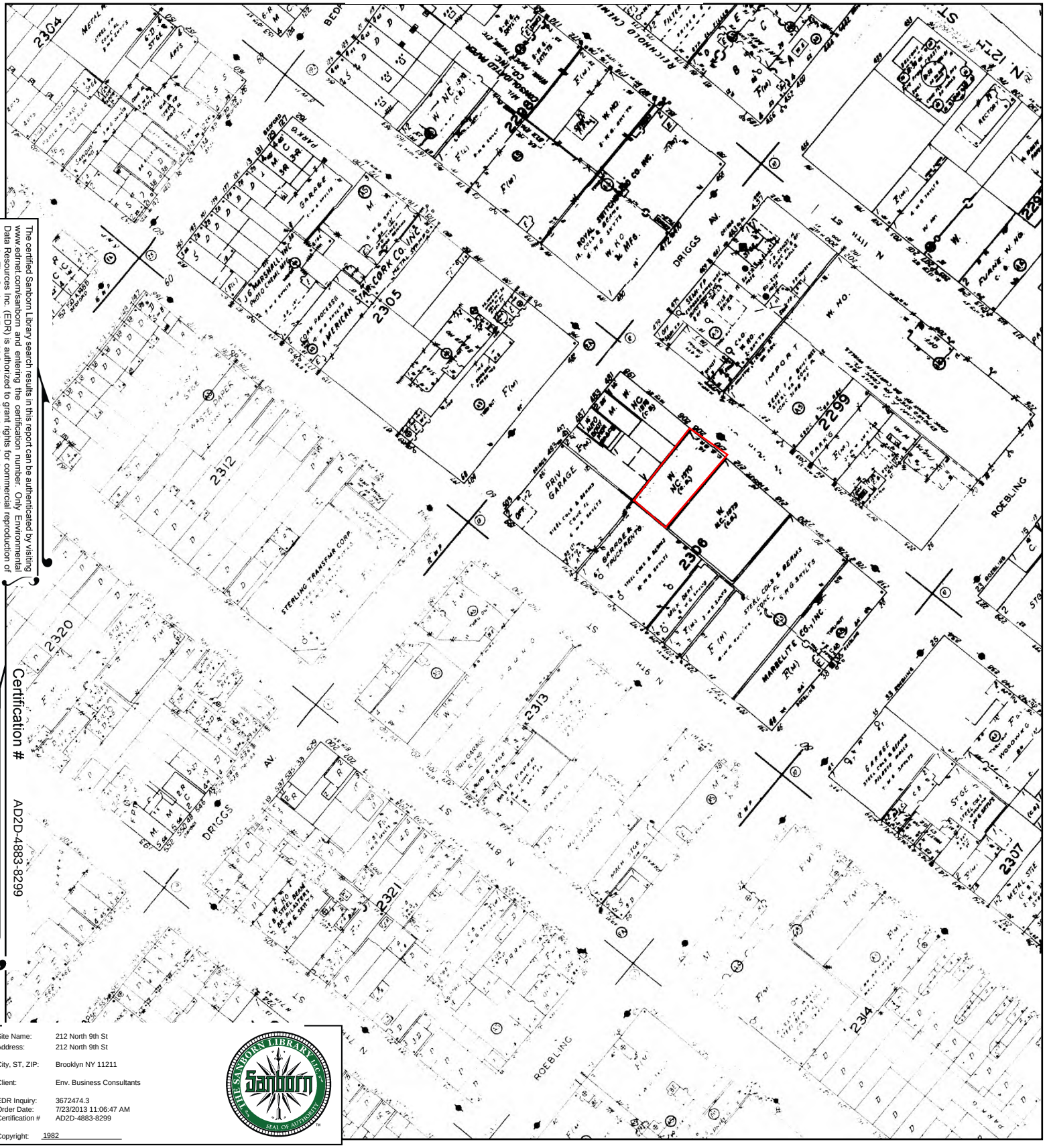
1982 Certified Sanborn Map



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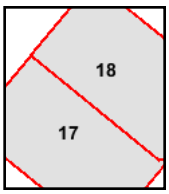

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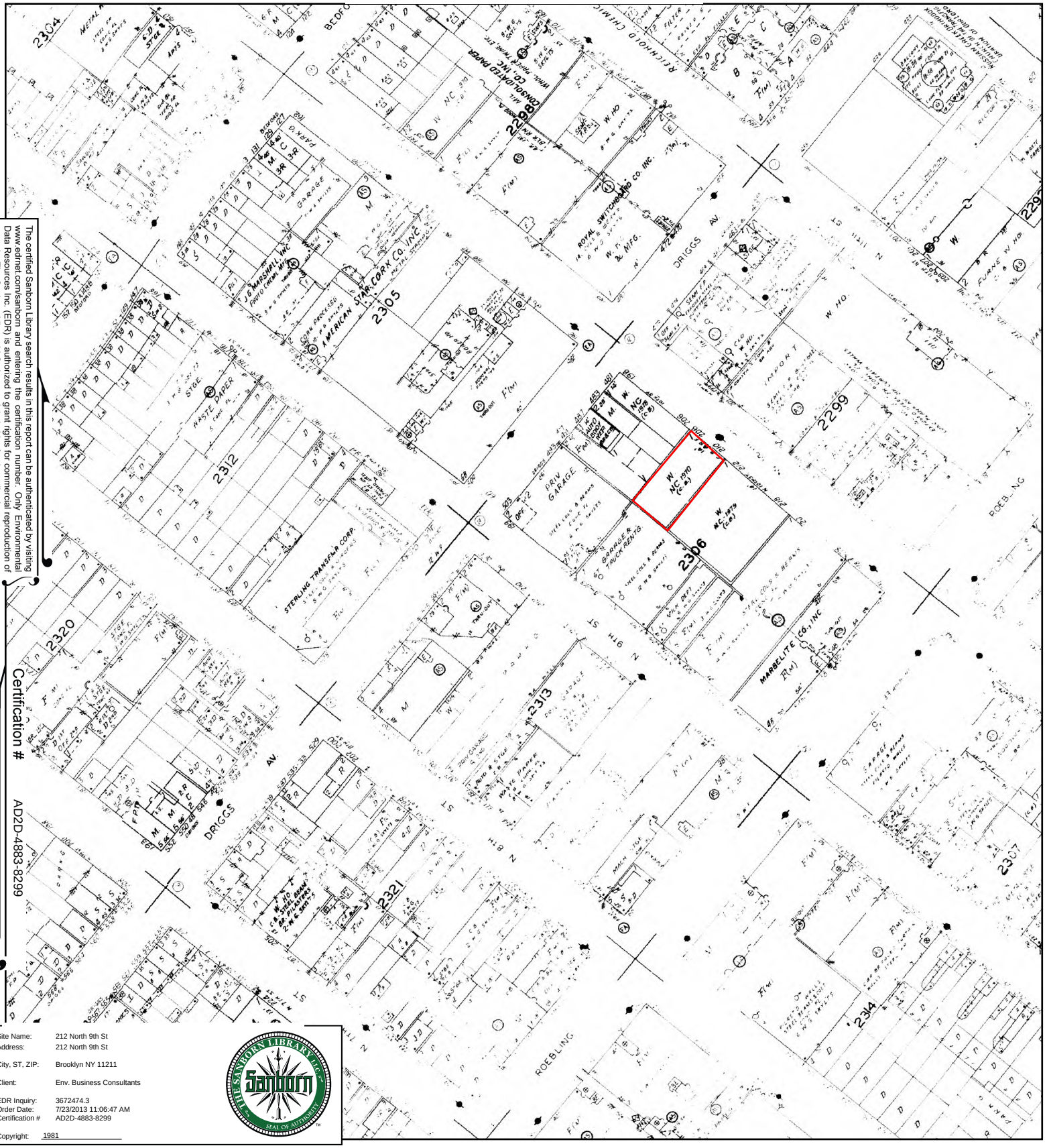
0 Feet 150 300 600

N

1981 Certified Sanborn Map



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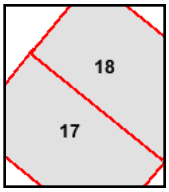

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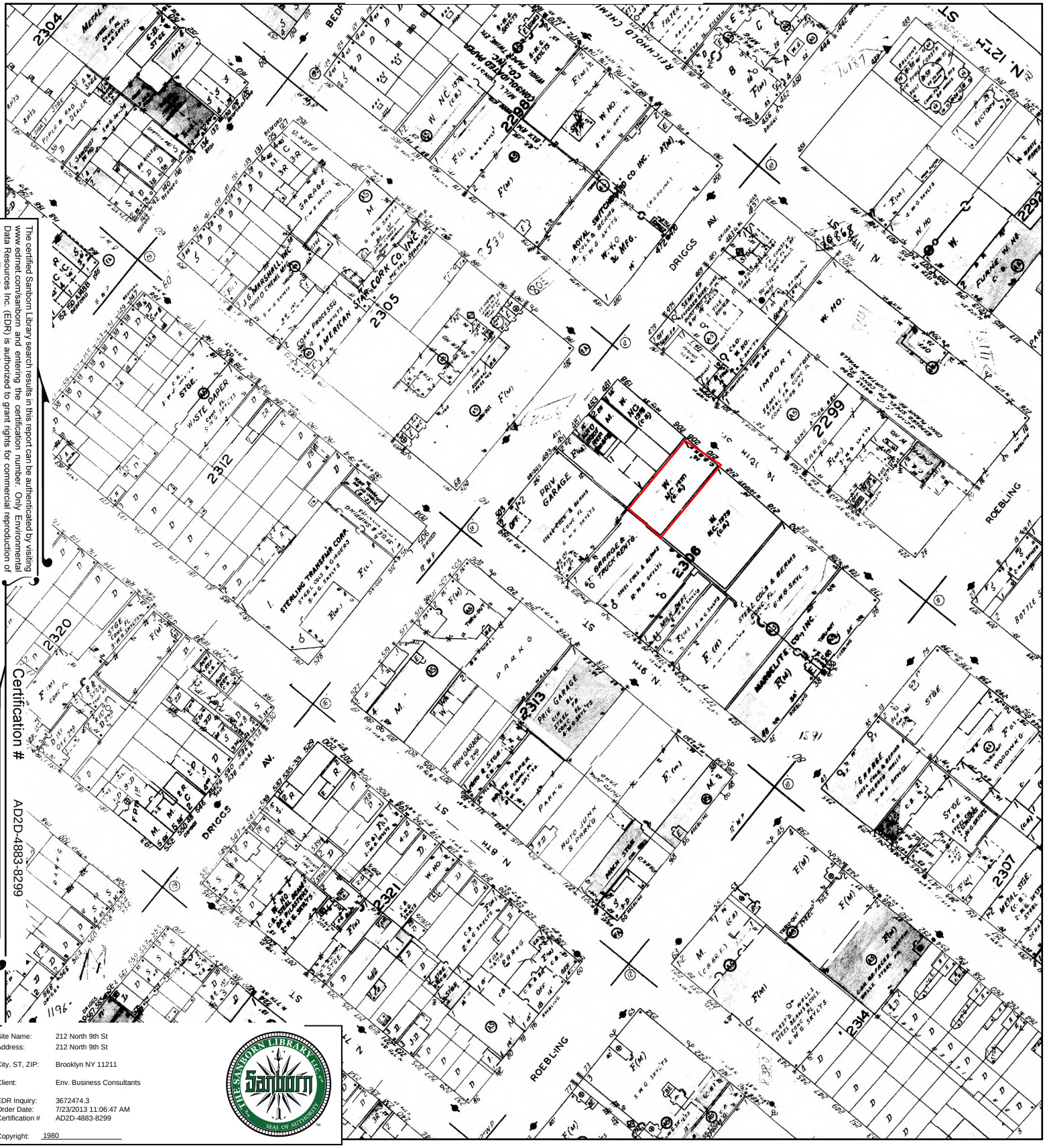

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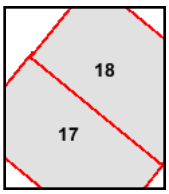

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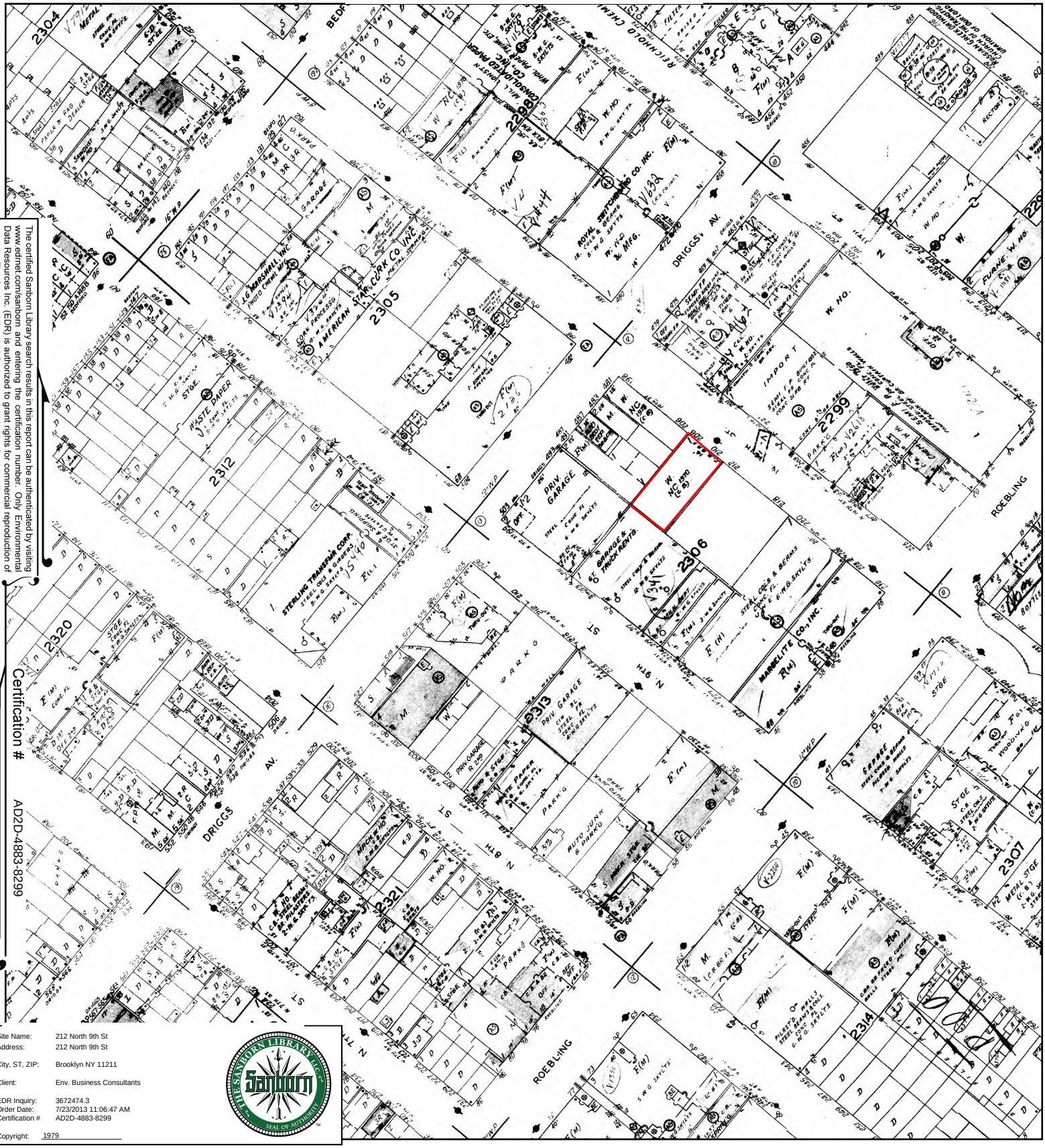

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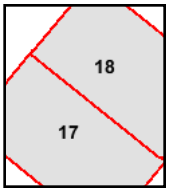

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0 Feet 150 300 600

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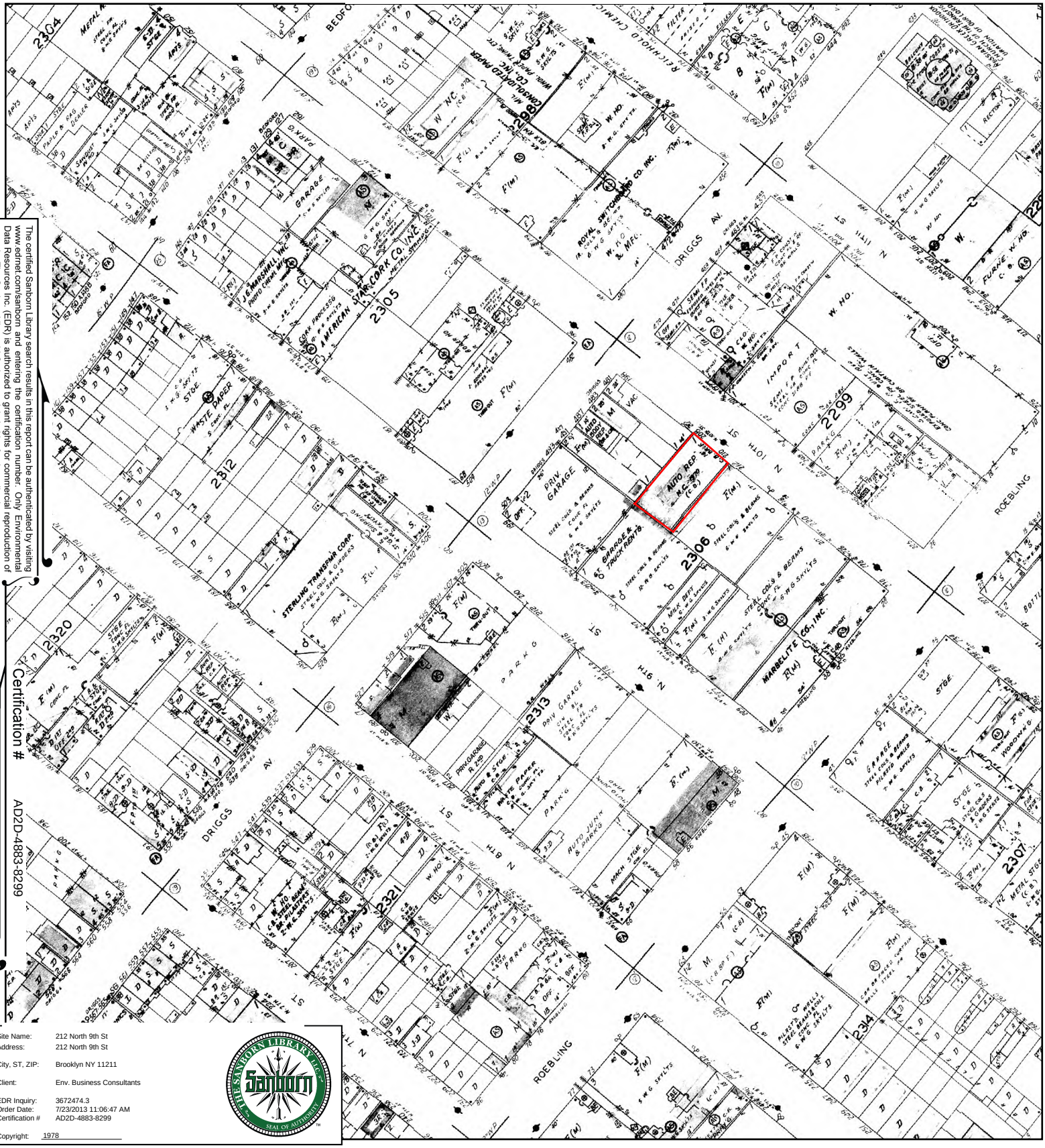

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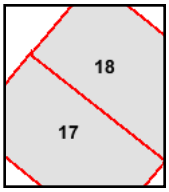

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0 Feet 150 300 600

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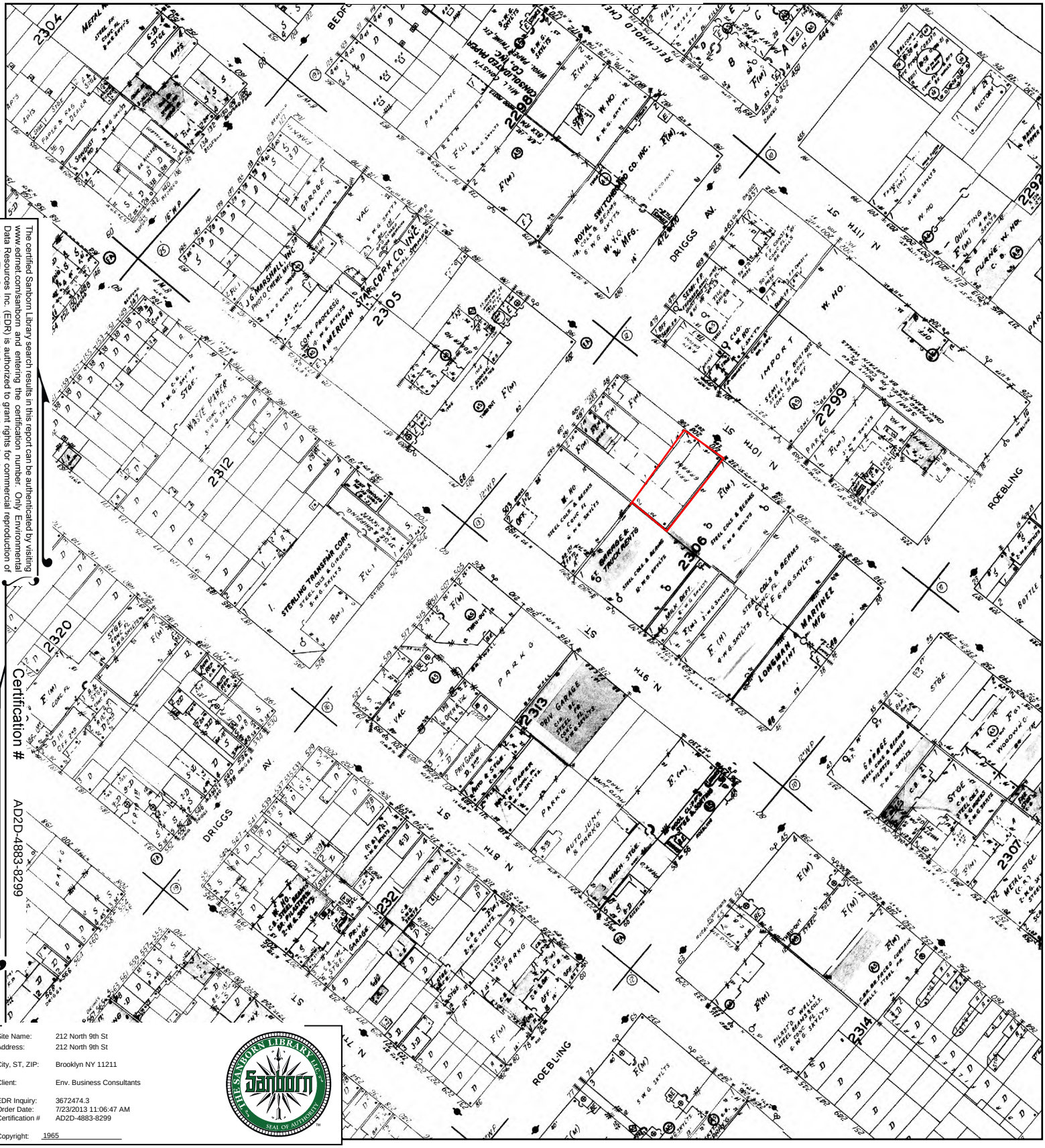

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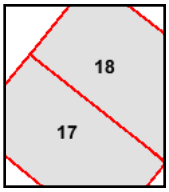

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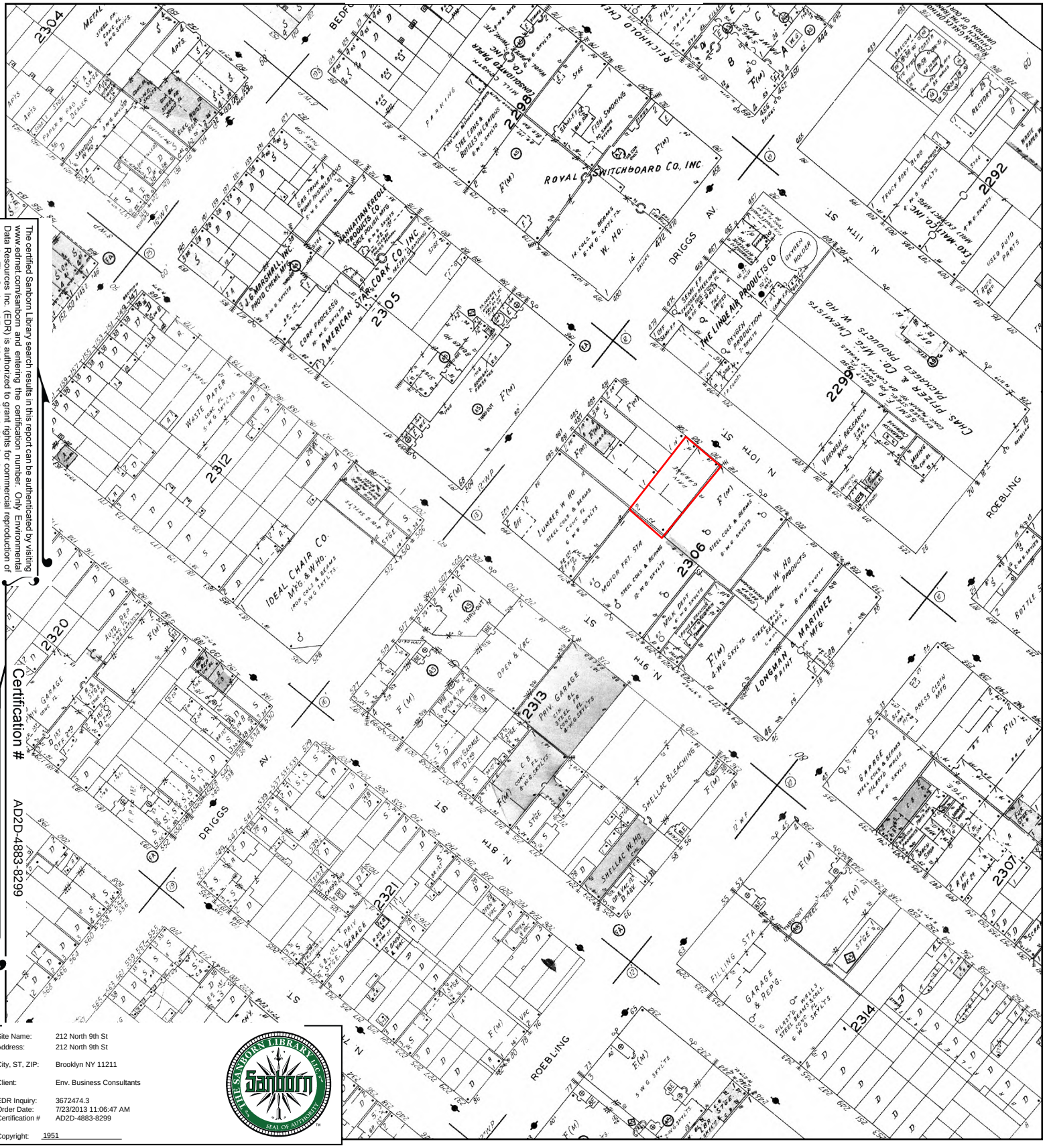
1951 Certified Sanborn Map



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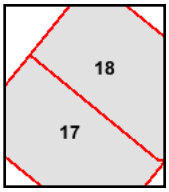

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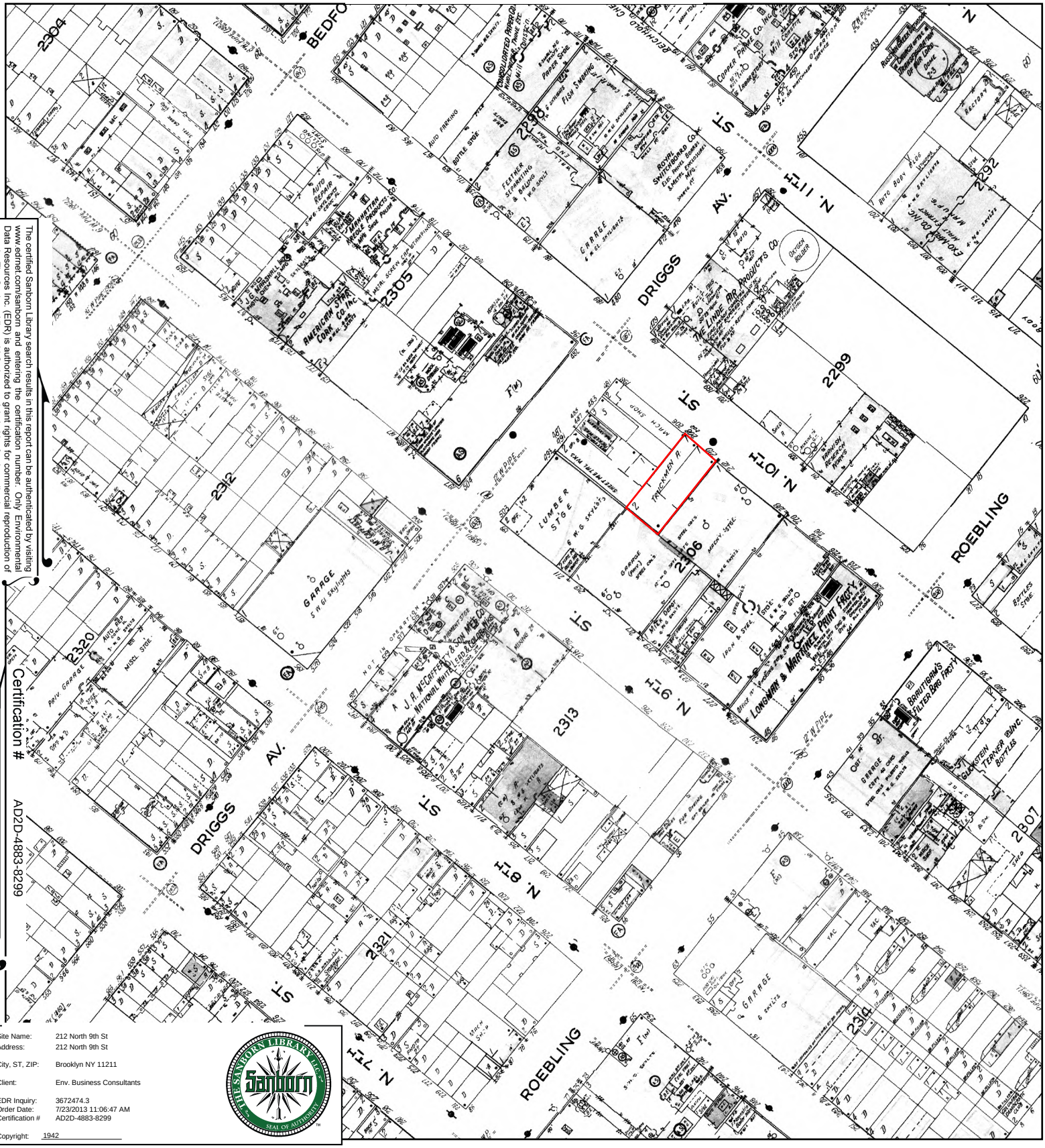
1942 Certified Sanborn Map



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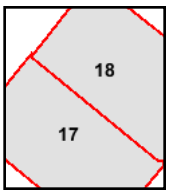

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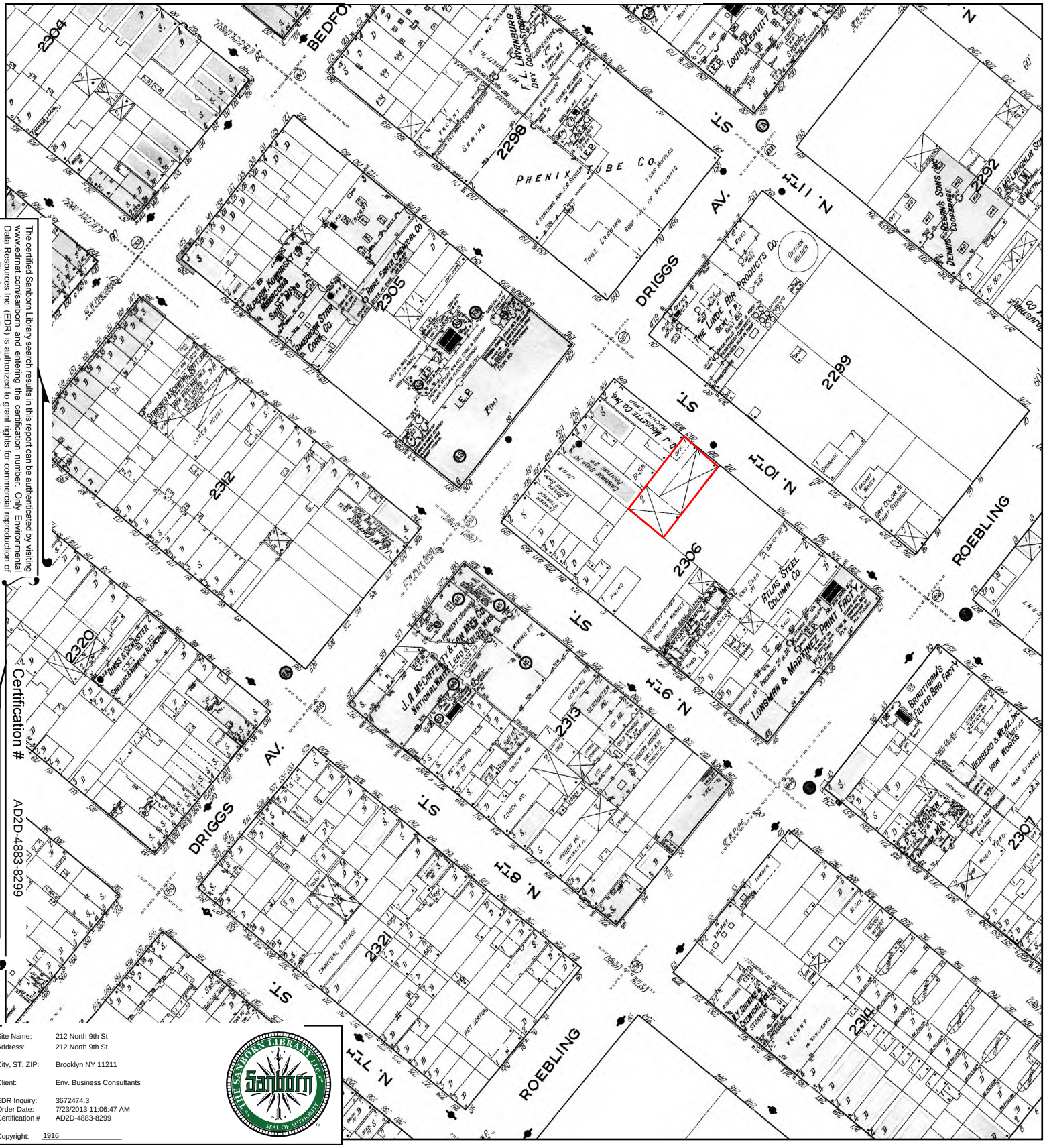

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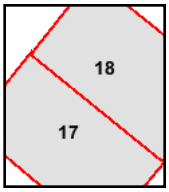

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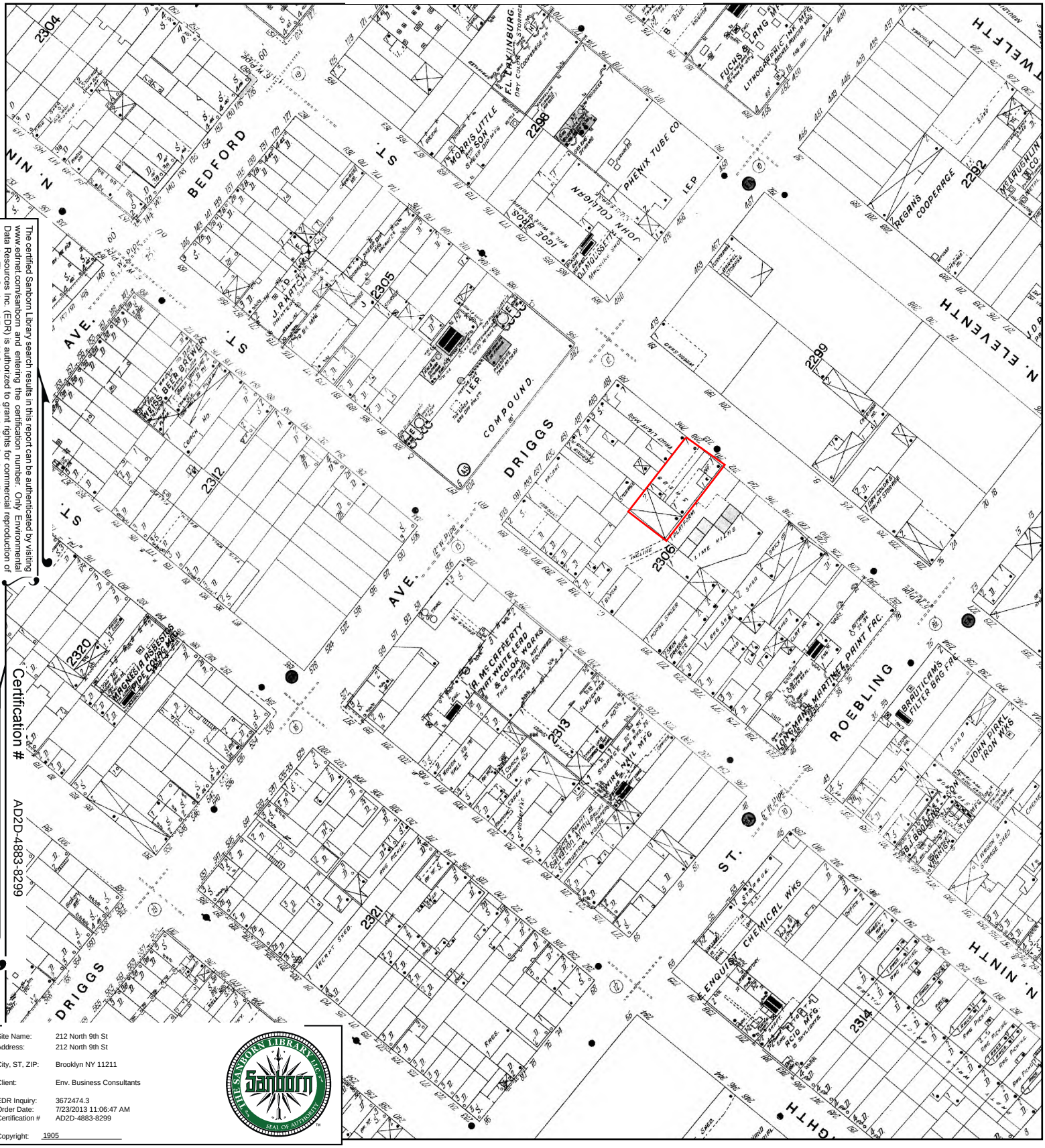

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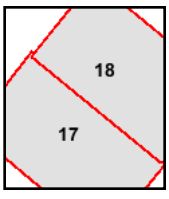

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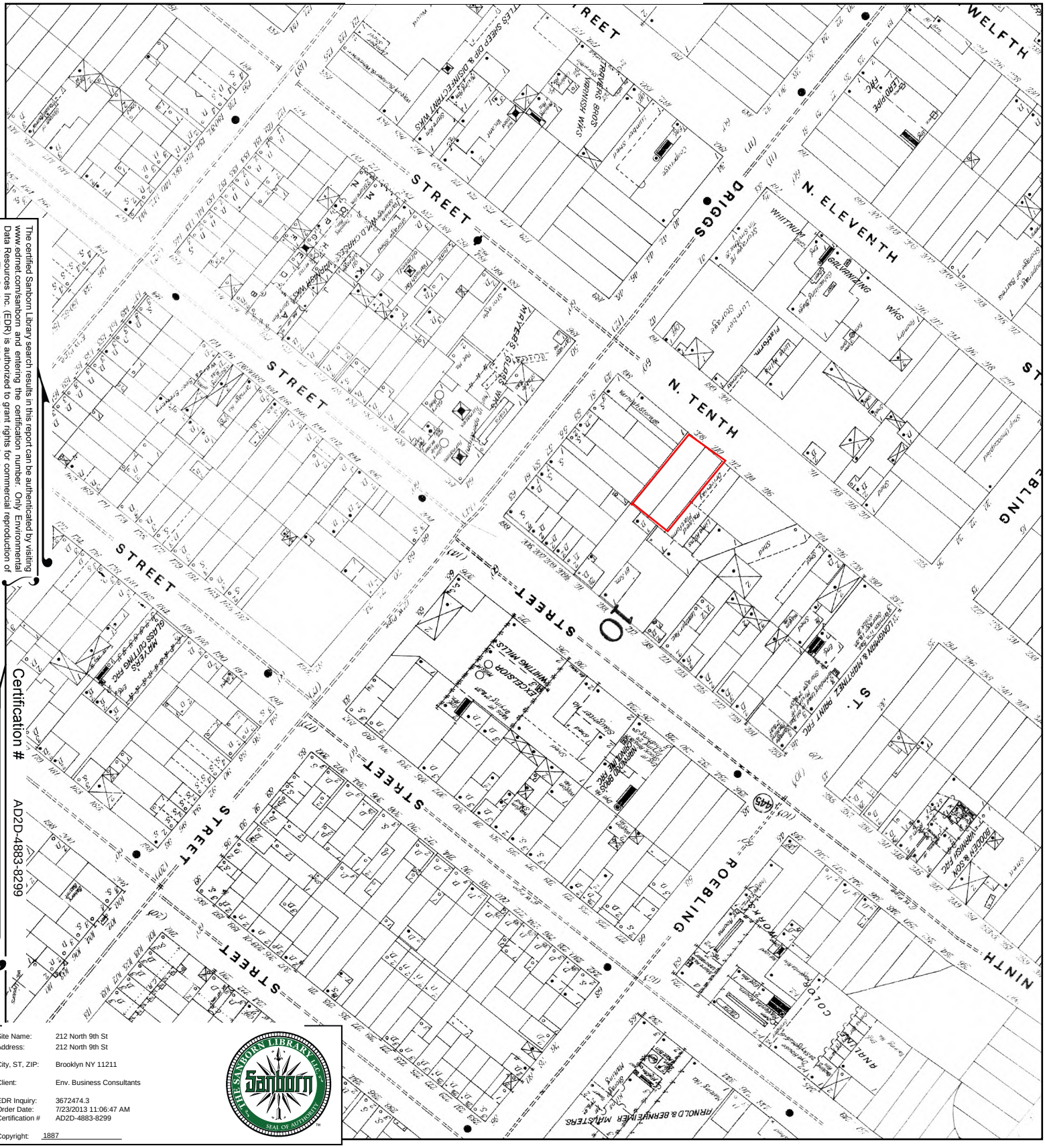
1887 Certified Sanborn Map



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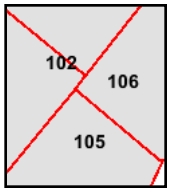


Volume 4, Sheet 102
Volume 4, Sheet 102
Volume 4, Sheet 105
Volume 4, Sheet 106

0 Feet 150 300 600

N

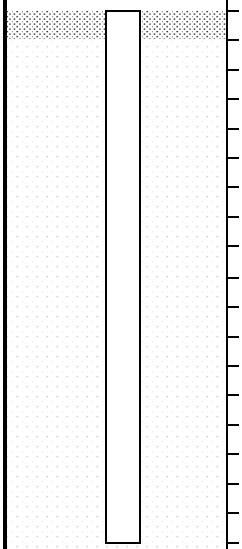
ATTACHMENT B
Soil Boring Logs

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B5 Boring Log

Location: Performed in the northeast side of the Site.			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: PPS1401	Address: 202 N 10th St., Brooklyn, NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe		7'	Well Specifications
Date Started: 2/11/2015	Date Completed: 2/11/2015			None
Completion Depth: 15 Feet	Geologist Reuben Levinton			

B5 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0 to 5	30		0.0	4" - Concrete 17" - Brown sand with rock 5" - Brown gravely sand with rock 4" - Brick **Retained soil sample B1(0-2)*
	5 to 10	28		0.0	9" - Brown gravely sand 10" - Wet brown gravely sand 9" - Brown silty sand, wet, odor **Water table at 7'*
	10 to 15	52		15.0	43" - Wet brown silty sand 9" - Organic matter ** Strong odor in organic matter* **Retained soil sample B1(10-12)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B6 Boring Log

Location: Performed in the northwest corner of the Site.			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: PPS1401	Address: 202 N 10th St., Brooklyn, NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe		5'	Well Specifications
Date Started: 2/11/2015	Date Completed: 2/11/2015			None
Completion Depth: 15 Feet	Geologist Reuben Levinton			

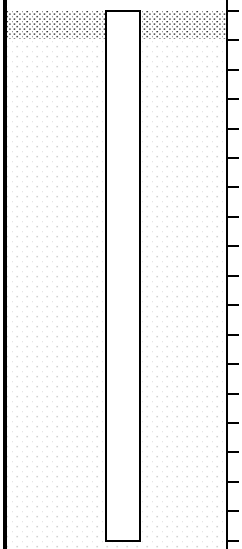
B6 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	38		0.0	5" - Concrete 7" - Brown sand 11" Brown gravely sand with rock 15" - Dark brown silty sand **Retained soil sample B6(0-2)*
	to 10	33		0.0	27" - Wet brown silty sand 6" - Black sand with rock **Water table at 5'* **Strong odor in black sand*
	to 15	55		0.0	55" - Brown/gray wet silty sand **Retained soil sample B6(10-12)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B7 Boring Log

Location: Performed in the center of the Site.			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: PPS1401	Address: 202 N 10th St., Brooklyn, NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe		5'	Well Specifications
Date Started: 2/11/2015	Date Completed: 2/11/2015			None
Completion Depth: 15 Feet	Geologist Reuben Levinton			

B7 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0 to 5	27		0.0	6" - Concrete 21" - Brown gravely sand with rock **Retained soil sample B7(10-12)*
	5 to 10	43		75.0	41" - Brown silty wet sand 2" - Black sand **Water table at 5'* **Strong odor within black sand*
	10 to 15	48		25.0	4" - Black silty wet sand *24" - Wet brown silty sand* 3" - Black and white gravely sand 17" - Wet brown silty sand **Retained soil sample B7(10-12)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B8 Boring Log

Location: Performed in the South area of the Site near the rear drain.			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: PPS1401	Address: 202 N 10th St., Brooklyn, NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe		5'	Well Specifications
Date Started: 2/11/2015	Date Completed: 2/11/2015			None
Completion Depth: 7 Feet	Geologist Reuben Levinton			

B8 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0				
	to 7	43		0.0	5" - Concrete 27" - Brown gravely sand with rock 11" - Wet brown silty sand **Water table at 5'* **Retained soil samples B8(0-2), B(4-6)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B9 Boring Log

Location: Performed in the southwest corner of the Site.			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: PPS1401	Address: 202 N 10th St., Brooklyn, NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe		5'	Well Specifications
Date Started: 2/11/2015	Date Completed: 2/11/2015			None
Completion Depth: 10 Feet	Geologist Reuben Levinton			

B9 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0 to 5	33		0.0	5" - Concrete 20" - Brown sand with rock 8" - Brown silty sand **Water table at 5'* **Retained soil sample B9(0-2)*
	5 to 10	20		0.0	20" - Wet brown silty sand **Retained soil sample B9(4-6)*

ATTACHMENT C
Groundwater Sampling Logs

GROUNDWATER PURGE / SAMPLE LOGS

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW1 Date: 2/12/2015

Well Depth (from TOC): 15.02 Equipment: Check Valve

Static Water Level (from TOC): 7.91 Field Personnel: Greg S.

Height of Water in Well: 7.11

Gallons of Water per Well Volume: 0.2844

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (ºF)	DO (mg/L)	Comments
0.00	8:00	400ml/min	0					turbid
2.00	8:02	400ml/min	0.22					turbid
4.00	8:04	400ml/min	0.44					clear
6.00	8:06	400ml/min	0.66					clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW2 Date: 2/12/2015

Well Depth (from TOC): 14.51 Equipment: Check Valve

Static Water Level (from TOC): 5.56 Field Personnel: Greg S.

Height of Water in Well: 8.95

Gallons of Water per Well Volume: 0.358

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (ºF)	DO (mg/L)	Comments
0.00	8:10	400ml/min	0					turbid
2.00	8:12	400ml/min	0.22					turbid
4.00	8:14	400ml/min	0.44					turbid
6.00	8:16	400ml/min	0.66					clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW3 Date: 2/12/2015

Well Depth (from TOC): 14.75 Equipment: Check Valve

Static Water Level (from TOC): 5.31 Field Personnel: Greg S.

Height of Water in Well: 9.44

Gallons of Water per Well Volume: 0.3776

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (ºF)	DO (mg/L)	Comments
0.00	8:30	400ml/min	0					turbid
2.00	8:32	400ml/min	0.22					turbid
4.00	8:34	400ml/min	0.44					clear
6.00	8:36	400ml/min	0.66					clear

Note 400 ml = 0.11 gallons

ATTACHMENT D
Soil Gas Sampling Logs

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. # | Page 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: File
☐ Phone #:

Report to: EBC
Customer: EBC
Address: 1808 Middle Country rd, Ridge NY

Invoice to: EBC

Sampled by:

Project Name: 202 N 10th St

Requested Deliverable:
RCP ☐ ASP CAT B ☒
MCP ☐ NJ Deliverables ☐

State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
73695	SG4	350	6.0	-30	-7	0331	41.7	916	1051	2/12/15	-28	-9		X			X
73696	SG1	468	6.0	-30	-8	5349		920	1108	2/12/15	-28	-9		X			X
73697	SG3	490	6.0	-30	-7	4982		923	1123		-29	-9		X			X
73698	SG2	0855	6.0	-30	-7	4481		923	1116		-30	-9		X			X
	6L 2hrs																

Relinquished by:	Accepted by:	Date:	Time:
		2-13-15	13:45
		2-13-15	1630

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Requested Criteria

Quote Number:

Data Format:
Excel ☒ Equis ☒ GISKey ☐
PDF ☒ Other: ☐

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Date:

ATTACHMENT E
Laboratory Reports in Digital Format