415 MANHATTAN AVENUE
BROOKLYN, NEW YORK

Remedial Action Work Plan

NYC BCP Number: 14CVCP252K
OER Project Number: 13EH-A491K

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
AS/SVE	Air Sparging/Soil Vapor Extraction
BOA	Brownfield Opportunity Area
CAMP	Community Air Monitoring Plan
C/D	Construction/Demolition
COC	Certificate of Completion
CQAP	Construction Quality Assurance Plan
CSOP	Contractors Site Operation Plan
ECs/ICs	Engineering and Institutional Controls
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
BCA	Brownfield Cleanup Agreement
MNA	Monitored Natural Attenuation
NOC	Notice of Completion
NYC BCP	New York City Brownfield Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York State Department of Health and Mental Hygiene
NYCRR	New York Codes Rules and Regulations
NYC OER	New York City Office of Environmental Remediation
NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYS DOH	New York State Department of Health
NYS DOT	New York State Department of Transportation
ORC	Oxygen-Release Compound
OSHA	United States Occupational Health and Safety Administration
PE	Professional Engineer
PID	Photo Ionization Detector

QEP	Qualified Environmental Professional
QHHEA	Qualitative Human Health Exposure Assessment
RAOs	Remedial Action Objectives
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan or Plan
RCA	Recycled Concrete Aggregate
RD	Remedial Design
RI	Remedial Investigation
RMZ	Residual Management Zone
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria and Guidance
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SVOC	Semi-Volatile Organic Compound
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound

CERTIFICATION

I, Richard Galli am a Professional Engineer licensed in the State of New York. I have primary direct responsibility for implementation of the remedial action for 'The Manhattan' Site Number 14CVCP252K and OER project number 13EH-A491K.

I, Scott Yanuck am a Qualified Environmental Professional as defined in §43-140. I have primary direct responsibility for implementation of the remedial action for 'The Manhattan' Site number 14CVCP252K and OER project number 13EH-A491K

I certify that this Remedial Action Work Plan (RAWP) has a plan for handling, transport and disposal of soil, fill, fluids and other materials removed from the property in accordance with applicable City, State and Federal laws and regulations. Importation of all soil, fill and other material from off-Site will be in accordance with all applicable City, State and Federal laws and requirements. This RAWP has provisions to control nuisances during the remediation and all invasive work, including dust and odor suppression.

Richard Galli

Name

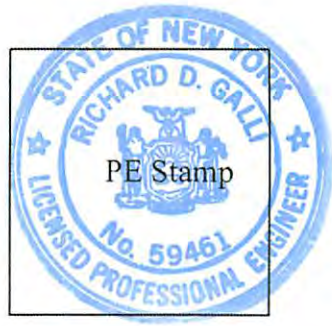
NYS # 059461

NYS PE License Number

Signature

9/14/15

Date



Scott A. Yanuck

QEP Name

QEP Signature

9/14/15

Date

EXECUTIVE SUMMARY

Chris Cielepak has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 2,500-square foot site located at 415 Manhattan Avenue in Brooklyn, New York. A remedial investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP). The remedial action described in this document provides for the protection of public health and the environment consistent with the intended property use, complies with applicable environmental standards, criteria and guidance and conforms to applicable laws and regulations.

Site Location and Current Usage

The Site is located at 415 Manhattan Avenue in the Greenpoint section in Brooklyn, New York, and is identified as Block 2723 and Lot 30 on the New York City Tax Map. Figure 1.0 shows the Site location. The Site is 2,500-square feet in area and is bounded by Manhattan Avenue to the east, commercial and residential dwellings to the north, south and west. A map of surrounding property usage is shown in Figure 3.0. Currently, the Site is used for multi-family residential uses and contains one (1) two-story walk-up concrete block and brick residential structure with a rear yard.

Summary of Proposed Redevelopment Plan

The new construction will encompass the entire 2,500 square foot lot and will consist of a six-story multi-family residential apartment building with a below ground parking garage and main foyer. There will be a cellar (5' 11" in depth) with an elevator shaft located on the north side of the Subject Property. The parking garage, located on the west side of the property, will be excavated to a total depth of 19' 2" below grade and will be constructed as a closed-in structure with the entrance located on the east side of the property, facing Manhattan Avenue. A rear yard will be located above the parking garage portion of the basement. Layout of the proposed site development is presented in Appendix B. The current zoning designation is M1-2/R6A. The proposed use is consistent with existing zoning for the property.

The remedial action contemplated under this RAWP may be implemented independently of the proposed redevelopment plan.

Summary of the Remedy

The proposed remedial action achieves protection of public health and the environment for the intended use of the property. The proposed remedial action achieves all of the remedial action objectives established for the project and addresses applicable standards, criterion, and guidance; is effective in both the short-term and long-term and reduces mobility, toxicity and volume of contaminants; is cost effective and implementable; and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and performance of all required NYC VCP Citizen Participation activities according to an approved Citizen Participation Plan;
2. Performance of a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
3. Establishment of Site Specific Track 4 Soil Cleanup Objectives (SCOs).
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking & staking excavation areas;
5. Completion of a Waste Characterization Study prior to excavation activities. Waste characterization soil samples will be collected at a frequency dictated by disposal facility(s).
6. Excavation and removal of soil/fill exceeding Track 4 SCOs. For development purposes, the property will be excavated to depth of from 6 feet (entire property) to more than 19 feet (west side of property) for the new building's cellar. Two shallow hotspot areas at SB-1 and SB-2 (for lead and SVOC) would be delineated and removed during new development. Approximately 1,050 tons of soil will be removed;
7. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media on-Site;

8. Management of excavated materials including temporarily stockpiling and segregating in accordance with defined material types and to prevent co-mingling of contaminated material and non-contaminated materials.

9. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations;

10. Transportation and off-Site disposal of all soil/fill material at licensed or permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of excavated media as required by disposal facilities. Appropriate segregation of excavated media on-Site.

11. Collection and analysis of post-excavation end-point samples to determine the performance of the remedy with respect to attainment of SCOs;

12. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations;

13. Construction and maintenance of an engineered composite cover consisting of a 5" inch thick concrete building slab;

14. Installation a vapor barrier system beneath the building slab (Cupolex) and outside foundation sidewalls below grade (Grace Prepruf 300R or similar). Cupolex is a patented concrete forming system for floors constructed from recycled plastic. The Cupolex units are placed on the soil and concrete is poured on top creating minimal contact of concrete to soil while creating a large void space to effectively controlling vapor intrusion into living space, preventing human exposure to residual soil/fill remaining under the Site;

15. Construction and operation of a cellar level parking garage with high volume air exchange in conformance with NYC Building Code.

16. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.

17. Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.

18. Dewatering in compliance with city, state, and federal laws and regulations. Extracted groundwater will either be containerized for off-site licensed or permitted disposal or will be treated under a permit from New York City Department of Environmental Protection (NYCDEP) to meet pretreatment requirements prior to discharge to the sewer system. Since groundwater is at a depth of 7'11" feet below ground surface, dewatering is required and permits will be obtained from NYCDEP.

19. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations.

20. Submission of a RAR that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, lists any changes from this RAWP, and describes all Engineering and Institutional Controls to be implemented at the Site;

21. Submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for maintenance, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency; and

22. The property will continue to be registered with an E-designation at the NYC Buildings Department. Establishment of Engineering Controls and Institutional Controls in this RAWP and a requirement that management of these controls must be in compliance with an approved SMP. Institutional Controls will include prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

COMMUNITY PROTECTION STATEMENT

The Office of Environmental Remediation created the New York City Voluntary Cleanup Program (NYC VCP) to provide governmental oversight for the cleanup of contaminated property in NYC. This Remedial Action Work Plan ("cleanup plan") describes the findings of prior environmental studies that show the location of contamination at the site, and describes the plans to clean up the site to protect public health and the environment.

This cleanup plan provides a very high level of protection for neighboring communities and also includes many other elements that address common community concerns, such as community air monitoring, odor, dust and noise controls, hours of operation, good housekeeping and cleanliness, truck management and routing, and opportunities for community participation. The purpose of this Community Protection Statement is to explain these community protection measures in non-technical language to simplify community review.

Remedial Investigation and Cleanup Plan. Under the NYC VCP, a thorough cleanup study of this property (called a remedial investigation) has been performed to identify past property usage, to sample and test soils, groundwater and soil vapor, and identify contaminant sources present on the property. The cleanup plan has been designed to address all contaminant sources that have been identified during the study of this property.

Identification of Sensitive Land Uses. Prior to selecting a cleanup, the neighborhood was evaluated to identify sensitive land uses nearby, such as schools, day care facilities, hospitals and residential areas. The cleanup program was then tailored to address the special conditions of this community.

Qualitative Human Health Exposure Assessment. An important part of the cleanup planning for the Site is the performance of a study to find all of the ways that people might come in contact with contaminants at the Site now or in the future. This study is called a Qualitative Human Health Exposure Assessment (QHHEA). A QHHEA was performed for this project. This assessment has considered all known contamination at the Site and evaluated the potential for people to come in contact with this contamination. All identified public exposures will be addressed under this cleanup plan.

Health and Safety Plan. This cleanup plan includes a Construction Health and Safety Plan (CHASP) that is designed to protect community residents and on-Site workers. The elements of this plan are in compliance with safety requirements of the United States Occupational Safety and Health Administration (OSHA). This plan includes many protective elements including those discussed below.

Site Safety Coordinator. This project has a designated Site Safety Coordinator to implement the Health and Safety Plan. The Site Safety Coordinator maintains an emergency contact sheet and protocol for management of emergencies. The Site Safety Coordinator is Thomas Johansen and can be reached at 631-673-0612 from 9:00 AM to 5:00 PM.

Worker Training. Workers participating in cleanup of contaminated material on this project are required to be trained in a 40-hour hazardous waste operators training course and to take annual refresher training. This pertains to workers performing specific tasks including removing contaminated material and installing cleanup systems in contaminated areas.

Community Air Monitoring Plan. Community air monitoring will be performed during this cleanup project to ensure that the community is properly protected from contaminants, dust and odors. Air samples will be tested in accordance with a detailed plan called the Community Air Monitoring Plan (CAMP). Results will be regularly reported to the NYC OER. This cleanup plan also has a plan to address any unforeseen problems that might occur during the cleanup (called a 'Contingency Plan').

Odor, Dust and Noise Control. This cleanup plan includes actions for odor and dust control. These actions are designed to prevent off-Site odor and dust nuisances and includes steps to be taken if nuisances are detected. Generally, dust is managed by application of physical covers and by water sprays. Odors are controlled by limiting the area of open excavations, physical covers, spray foams and by a series of other actions (called operational measures). The project is also required to comply with NYC noise control standards. If you observe problems in these areas, please contact the onsite Project Manager Thomas Johansen at 631-673-0612 or NYC Office of Environmental Remediation Project Manager Horace Zhang 212-788-8484.

Quality Assurance. This cleanup plan requires that evidence be provided to illustrate that all cleanup work required under the plan has been completed properly. This evidence will be

summarized in the final report, called the Remedial Action Report. This report will be submitted to the NYC Office of Environmental Remediation and will be thoroughly reviewed.

Storm-Water Management. To limit the potential for soil erosion and discharge, this cleanup plan has provisions for storm-water management. The main elements of the storm water management include physical barriers such as tarp covers and erosion fencing, and a program for frequent inspection.

Hours of Operation. The hours for operation of cleanup will comply with the NYC Department of Buildings construction code requirements or according to specific variances issued by that agency. For this cleanup project, the hours of operation are 7:00 AM to 5:00 PM from Monday to Friday.

Signage. While the cleanup is in progress, a placard will be prominently posted at the main entrance of the property with a laminated project Fact Sheet that states that the project is in the NYC Voluntary Cleanup Program, provides project contact names and numbers, and locations of project documents can be viewed.

Complaint Management. The contractor performing this cleanup is required to address all complaints. If you have any complaints, you can call the facility Project Manager Thomas Johansen at 631-673-0612 or tjohansen@laurelenv.com, the NYC Office of Environmental Remediation Project Horace Zhang at 212-788-8484 or call 311 and mention the Site is in the NYC Voluntary Cleanup Program.

Utility Mark-outs. To promote safety during excavation in this cleanup, the contractor is required to first identify all utilities and must perform all excavation and construction work in compliance with NYC Department of Buildings regulations.

Soil and Liquid Disposal. All soil and liquid material removed from the Site as part of the cleanup will be transported and disposed of in accordance with all applicable City, State and Federal regulations and required permits will be obtained.

Soil Chemical Testing and Screening. All excavations will be supervised by a trained and properly qualified environmental professional. In addition to extensive sampling and chemical testing of soils on the Site, excavated soil will be screened continuously using hand-held

instruments, by sight, and by smell to ensure proper material handling and management, and community protection.

Stockpile Management. Soil stockpiles will be kept covered with tarps to prevent dust, odors and erosion. Stockpiles will be frequently inspected. Damaged tarp covers will be promptly replaced. Stockpiles will be protected with silt fences. Hay bales will be used, as needed to protect storm water catch basins and other discharge points.

Trucks and Covers. Loaded trucks leaving the Site will be covered in compliance with applicable laws and regulations to prevent dust and odor. Trucks will be properly recorded in logs and records and placarded in compliance with applicable City, State and Federal laws, including those of the New York State Department of Transportation. If loads contain wet material that can leak, truck liners will be used. All transport of materials will be performed by licensed truckers and in compliance with all laws and regulations.

Imported Material. All fill materials proposed to be brought onto the Site will comply with rules outlined in this cleanup plan and will be inspected and approved by a qualified worker located on-Site. Waste materials will not be brought onto the Site. Trucks entering the Site with imported clean materials will be covered in compliance with applicable laws and regulations.

Equipment Decontamination. All equipment used for cleanup work will be inspected and washed, if needed, before it leaves the Site. Trucks will be cleaned at a truck inspection station on the property before leaving the Site.

Housekeeping. Locations where trucks enter or leave the Site will be inspected every day and cleaned regularly to ensure that they are free of dirt and other materials from the Site.

Truck Routing. Truck routes have been selected to: (a) limit transport through residential areas and past sensitive nearby properties; (b) maximize use of city-mapped truck routes; (c) limit total distance to major highways; (d) promote safety in entry to highways; (e) promote overall safety in trucking; and (f) minimize off-Site line-ups (queuing) of trucks entering the property. Operators of loaded trucks leaving the Site will be instructed not to stop or idle in the local neighborhood.

Final Report. The results of all cleanup work will be fully documented in a final report (called a Remedial Action Report) that will be available for you to review in the public document repositories located at Greenpoint Branch Library located at 107 Norman Avenue, Brooklyn, New York 11222.

Long-Term Site Management. To provide long-term protection after the cleanup is complete, the property owner will be required to comply with an ongoing Site Management Plan that calls for continued inspection of protective controls, such as Site covers. The Site Management Plan is evaluated and approved by the NYC Office of Environmental Remediation. Requirements that the property owner must comply with are established through a city environmental designation. A certification of continued protectiveness of the cleanup will be required from time to time to show that the approved cleanup is still effective.

REMEDIAL ACTION WORK PLAN

1.0 SITE BACKGROUND

Chris Cielepak has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 415 Manhattan Avenue in the Greenpoint section of Brooklyn, New York (the "Site"). A Remedial Investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP) in a manner that will render the Site protective of public health and the environment consistent with the contemplated end use. This RAWP establishes remedial action objectives, provides a remedial alternatives analysis that includes consideration of a permanent cleanup, and provides a description of the selected remedial action. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

1.1 SITE LOCATION AND CURRENT USAGE

The Site is located at 415 Manhattan Avenue in the Greenpoint section in Brooklyn, New York and is identified as Block 2723 and Lot 30 on the New York City Tax Map. Figure 1.0 shows the Site location. The Site is 2,500-square feet in area and is bounded by Manhattan Avenue to the east, commercial and residential dwellings to the north, south and west. A map of the site boundary is shown in Figure 3.0. Currently, the Site is used for multi-family residential uses and contains one (1) two-story walk-up concrete block and brick residential structure with a rear yard.

1.2 PROPOSED REDEVELOPMENT PLAN

The new construction will encompass the entire 2,500 square foot lot and will consist of a six-story multi-family residential apartment building with a below ground parking garage and main foyer. There will be a cellar (5' 11" in depth) with an elevator shaft located on the north side of the Subject Property. The parking garage, located on the west side of the property, will be excavated to a total depth of 19' 2" below grade and will be constructed as a closed-in structure with the entrance located on the east side of the property facing Manhattan Avenue. A rear yard will be located above the parking garage portion of the basement. Layout of the proposed site

development is presented in Appendix B. The current zoning designation is M1-2/R6A. The proposed use is consistent with existing zoning for the property.

The remedial action contemplated under this RAWP may be implemented independently of the proposed redevelopment plan.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

Surrounding properties are residential and commercial in nature. Adjoining to the north is a non-descript commercial building. Adjoining to the south is a non-descript commercial building. Adjoining to the west are residential dwellings. Adjoining to the east is Manhattan Avenue and non-descript auto repair facilities. The sole nearby sensitive receptor is a Williamsburg Charter School located approximately 300-feet northwest.

Figure 3.0 shows the surrounding property usage.

1.4 REMEDIAL INVESTIGATION

A remedial investigation wa s performed and the results are documented in a companion document called "*Remedial Investigation Report, The Manhattan*", dated August, 2013 (RIR).

The Subject Property has been used for residential purposes since construction circa 1887.

On April 7, 2013 Thomas Johansen, a ***LEA*** Geologist and Site inspector conducted an on-site investigation of the Subject Property. The Subject Property maintains one (1) two-story walk-up three-family residential dwelling. The building has a footprint of approximately 800 square feet and is situated on a parcel approximately 2,500 square feet in area. The building was constructed circa 1887 for residential purposes and fronts along Manhattan Avenue. The site is relatively flat, covered with the building, a mostly unpaved rear yard, concrete sidewalks and a side fire egress. Due to the age of the building, lead based paint may be present within the Subject Building. The majority of painted surfaces were being re-painted during ***LEA's*** inspection and were observed to be in excellent condition. No fill ports and/or vent pipes, which indicate the presence of underground storage tanks or aboveground storage tanks, were noted during our site investigation. The site is listed twice as an E-Designation site: E-138 Hazmat for underground

gasoline storage tanks testing protocol and E-138-Air for operable window limitations. Both E-Designation listings were issued on May 11, 2005.

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 2 feet below grade.
2. SVOC hotspot located on the north side of the property, approximately 10 square feet, to a depth of 5 ftbg.

Summary of the Work Performed under the Remedial Investigation

Laurel Environmental Associates, Ltd. (LEA) performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed three soil borings across the entire project Site, and collected five soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells at strategic locations at the Site and collected three groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed three soil vapor probes around Site perimeter and collected three samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is fourteen feet.
2. Depth to groundwater ranged from 6.55 ft. below ground surface (bgs) to 6.43 ft. bgs at the Site.
3. Groundwater flow is generally from southeast to northwest beneath the Site.
4. Depth to bedrock is unknown at the Site, but is not expected to be encountered during construction activities.
5. The stratigraphy of the site, from the surface down, consists of at least twelve feet of well graded sands.

6. Laboratory results for soils were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives and Restricted Residential Use Soil Cleanup Objectives as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples results showed no detectable concentrations of PCBs. One Volatile Organic Compound (VOC), acetone was detected (max. of 130 ppb) above Unrestricted Use Soil Cleanup Objectives (SCOs) in two of three soil borings. Trace levels of 2-Butanone and methylene chloride were detected in all samples, however, none exceeded Unrestricted Use SCOs. Several Semi-Volatile Organic Compounds (SVOCs) including; Benzo (a) anthracene (max of 97,200 ppb), Benzo (a) Pyrene (max of 102,000 ppb), Benzo (b) fluoranthene (max of 63,500 ppb), Benzo (k) fluoranthene (max of 117,000 ppb), Chrysene (max of 91,100 ppb), Dibenzo (a,h) anthracene (max of 26,000 ppb), Fluoranthene (184,000 ppb), Indeno (1,2,3-cd) pyrene (max of 46,700 ppb), Phenanthrene (189,000 ppb), and Pyrene (150,000 ppb) were detected above their respective Restricted Residential Use SCOs. All SVOC exceedances were detected in one shallow soil boring (SB-2). Two pesticides including 4,4-DDE (max. of 11.1 ppb) and 4,4-DDT (max. of 11.3 ppb) were detected above their respective Unrestricted Use SCOs. Metals including; Arsenic (max of 22.6 ppm), Barium (469 ppm), Cadmium (6.18), Copper (max of 2,800), Lead (max of 3,700), and Zinc (max of 4,890) were detected above Restricted Residential Use SCOs. Most of the metal exceedances were in shallow soils. High concentrations of PAH compounds (SB-2) indicates a hotspot area.

7. Groundwater samples were compared to New York State 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). Groundwater samples results showed no detectable PCBs, or pesticides. The only VOC detected was acetone at low concentrations. Several SVOCs and Metals were detected in the groundwater samples collected from the site, but at levels well below NYSDEC 6NYCRR Part 703.5 Groundwater Quality Standards (GQS).

8. Soil vapor samples collected during the RI were compared to the compounds listed in Table 3.1 Air Guideline Values Derived by the NYSDOH located in the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion.

Soil vapor results showed a wide variety of petroleum related and chlorinated VOCs at low concentrations. Tetrachloroethylene (PCE) was identified in one soil vapor sample at a maximum concentration of 0.28 $\mu g/m^3$. The PCE concentrations are all below the monitoring level ranges established within the State DOH soil vapor guidance matrix. TCE, 1,1,1-TCA and carbon tetrachloride were not detected in any of soil vapor samples.

For more detailed results, consult the RIR. Based on an evaluation of the data and information from the RIR and this RAWP, disposal of significant amounts of hazardous waste is not suspected at this site.

2.0 REMEDIAL ACTION OBJECTIVES

Based on the results of the RI, the following Remedial Action Objectives (RAOs) have been identified for this Site:

Groundwater

- Prevent direct exposure to contaminated groundwater.
- Prevent exposure to contaminants volatilizing from contaminated groundwater.

Soil

- Prevent direct contact with contaminated soil.
- Prevent exposure to contaminants volatilizing from contaminated soil.
- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

- Prevent exposure to contaminants in soil vapor.
- Prevent migration of soil vapor into dwelling and other occupied structures.

3.0 REMEDIAL ALTERNATIVES ANALYSIS

The goal of the remedy selection process below is to select a remedy that is protective of human health and the environment taking into consideration the current, intended and reasonably anticipated future use of the property. The remedy selection process begins by establishing RAOs for media in which chemical constituents were found in exceedance of applicable standards, criteria and guidance values (SCGs). A remedy is then developed based on the following ten criteria:

- Protection of human health and the environment;
- Compliance with SCGs;
- Short-term effectiveness and impacts;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, or volume of contaminated material;
- Implementability;
- Cost effectiveness;
- Community Acceptance; and
- Land use; and
- Sustainability

The following is a detailed description of the alternatives analysis and remedy selection to address impacted media at the Site. As required, a minimum of two remedial alternatives (including a Track 1 scenario) are evaluated, as follows:

Alternative 1

Alternative 1 involves:

- Establishment of Unrestricted Use (Track 1) Soil Cleanup Objectives (SCOs).

- Removal of all soil/fill exceeding Track 1 Unrestricted Use SCOs throughout the Site and confirmation that Track 1 Unrestricted Use SCOs has been achieved with post-excavation endpoint sampling. If soil/fill containing analytes at concentrations above Unrestricted Use SCOs is still present at the base of the excavation after removal of all soil required for construction of the new building's cellar level is complete, additional excavation will be performed to ensure complete removal of soil that does not meet Track 1 Unrestricted Use SCOs.

- No Engineering or Institutional Controls are required for a Track 1 cleanup, but a waterproofing/vapor barrier system would be installed beneath the building foundation and behind the foundation sidewalls of the new buildings as part of development to prevent any potential future exposures from off-Site soil vapor; and

- Placement of final cover over the entire Site, as part of construction.

Alternative 2

- Establishment of Site-Specific (Track 4) SCOs.

- Removal of all soil/fill material exceeding Track 4 Site-Specific SCOs and confirmation that Track 4 has been achieved with post excavation endpoint sampling. This remedial alternative addresses the subsurface soil contaminated based on the development plans for the site. As part of the development plans, the entire property will be excavated from 5' 11" feet to more than 19' 2" feet below grade. If soil/fill containing analytes at concentrations above Track 4 Site Specific SCOs is still present after removal of all soil required for construction of the new building is complete, additional excavation will be performed to meet Track 4 Site-Specific SCOs.

- Placement of a final cover over the entire site to eliminate exposure to remaining soil/fill;

- Placement of a waterproofing/vapor barrier system beneath the building slab-on grade and along below grade foundation side walls to prevent any potential future exposures from off-Site soil vapor;

- Establishment of use restrictions including prohibitions on the use of groundwater from the site and prohibitions on sensitive site uses, such as farming or vegetable gardening, to eliminate future exposure pathways; and prohibition of a higher level of land use without OER approval;

- Establishment of an approved Site Management Plan to ensure long-term management of these engineering and institutional controls including the performance of periodic inspections and certification that the controls are performing as they were intended. SMP will note that the property owner and property owner's successors and assigns must comply with the approved SMP; and

- Continued registration as an E-designation property to memorialize the remedial action and the Engineering and Institutional Controls required by this RAWP.

3.1 THRESHOLD CRITERIA

Protection of Public Health and the Environment

This criterion is an evaluation of the remedy's ability to protect public health and the environment, and an assessment of how risks posed through each existing or potential pathway of exposure are eliminated, reduced or controlled through removal, treatment, and implementation of Engineering Controls or Institutional Controls. Protection of public health and the environment must be achieved for all approved remedial actions.

Alternative 1 would be protective of human health and the environment by removing the contaminated soil/fill exceeding Track 1 SCOs and groundwater protection standards, thus eliminating potential for direct contact with contaminated soil/fill once construction is complete and eliminating the risk of contamination leaching into groundwater.

Alternative 2 would achieve comparable protections of human health and the environment by excavating impacted soil/fill and hotspots at the Site and by ensuring that remaining soil/ fill on-Site meets Track 4 Site-Specific SCOs as well as by placement of institutional and engineering controls, including a vapor barrier and a composite cover system. The composite cover system would prevent direct contact with any remaining on-Site soil/fill. Implementing institutional controls including a site management plan and continued "E" designation of property would ensure that the composite cover system remains intact and protective. Establishment of Track 4 Site-Specific SCOs would minimize the risk of contamination leaching into groundwater.

For both Alternatives, potential exposure to contaminated soils during construction would be minimized by implementing a Construction Health and Safety Plan, an approved Soil/Materials Management Plan and Community Air Monitoring Plan (CAMP). Potential contact with contaminated groundwater would be prevented as its use is prohibited by City laws and regulations. Potential future migration of soil vapors into the new building would be prevented by installing a waterproofing/vapor barrier system below the new building's foundation and continuing the vapor barrier around foundation walls as part of new construction.

3.2. BALANCING CRITERIA

Compliance with Standards, Criteria and Guidance (SCGs)

This evaluation criterion assesses the ability of the alternative to achieve applicable standards, criteria and guidance.

Alternative 1 would achieve compliance with the remedial goals, chemical-specific SCGs and RAOs for soil through removal to Track 1 Unrestricted Use SCOs and groundwater protection standards. Compliance with SCGs for soil vapor would also be achieved by installation of waterproofing/vapor barrier system below the new building's basement slab and continuing the vapor barrier around foundation walls, as part of new development.

Alternative 2 would achieve compliance with the remedial goals, chemical-specific SCGs and RAOs for soil through removal to meet Track 4 Site Specific SCOs. Compliance with SCGs for soil vapor would also be achieved by installation of waterproofing/vapor barrier system below the new building's basement slab and continuing the vapor barrier around foundation walls. A Site Management Plan would ensure that these controls remained protective for the long term.

Health and safety measures contained in the CHASP and Community Air Monitoring Plan (CAMP) that comply with the applicable SCGs shall be implemented during Site redevelopment under this RAWP. For both alternatives, focused attention on means and methods employed during the remedial action would ensure that handling and management of contaminated material would be in compliance with applicable SCGs. These measures would protect on-site workers and the surrounding community from exposure to Site-related contaminants.

Short-term effectiveness and impacts

This evaluation criterion assesses the effects of the alternative during the construction and implementation phase until remedial action objectives are met. Under this criterion, alternatives are evaluated with respect to their effects on public health and the environment during implementation of the remedial action, including protection of the community, environmental impacts, time until remedial response objectives are achieved, and protection of workers during remedial actions.

Both alternatives 1 and 2 have similar short-term effectiveness during their respective implementations, as each requires excavation of historic fill material. Both alternatives would result in short-term dust generation impacts associated with excavation, handling, load out of materials, and truck traffic. Short-term impacts would likely be higher for Alternative 1 due to excavation of greater amounts of historical fill material. However, focused attention to means and methods during the remedial action during a Track 1 removal action, including community air monitoring and appropriate truck routing, would minimize or negate the overall impact of these activities and any differences between these alternatives.

Both alternatives would employ appropriate measures to prevent short term impacts, including a Construction Health and Safety Plan, a Community Air Monitoring Plan (CAMP) and a Soil/Materials Management Plan (SMMP), during all on-Site soil disturbance activities and would minimize the release of contaminants into the environment. Both alternatives provide short term effectiveness in protecting the surrounding community by decreasing the risk of contact with on-Site contaminants. Construction workers operating under appropriate management procedures and a Health and Safety Plan (CHASP) would be protected from on-Site contaminants (personal protective equipment would be worn consistent with the documented risks within the respective work zones).

Long-term effectiveness and permanence

This evaluation criterion addresses the results of a remedial action in terms of its permanence and quantity/nature of waste or residual contamination remaining at the Site after response objectives have been met, such as permanence of the remedial alternative, magnitude of remaining contamination, adequacy of controls including the adequacy and suitability of ECs/ICs

that may be used to manage contaminant residuals that remain at the Site and assessment of containment systems and ICs that are designed to eliminate exposures to contaminants, and long-term reliability of Engineering Controls.

Alternative 1 would achieve long-term effectiveness and permanence by permanently removing all impacted soil/ fill material and enabling unrestricted usage of the property. The waterproofing/vapor barrier system employed as part of new construction would provide permanent control for future off-site soil vapor management.

Alternative 2 would provide long-term effectiveness by removing most on-site contamination and attaining Track 4 Site-Specific SCOs, establishing Engineering Controls including a vapor barrier and a composite cover system across the Site, establishing Institutional Controls to ensure long-term management including use restrictions, a Site Management Plan, and continued registration as an E-designated property to memorialize these controls for the long term. The SMP would ensure long-term effectiveness of all ECs and ICs by requiring periodic inspection and certification that these controls and use restrictions continue to be in place and are functioning as they were intended assuring that protections designed into the remedy will provide continued high level of protection in perpetuity.

Reduction of toxicity, mobility, or volume of contaminated material

This evaluation criterion assesses the remedial alternative's use of remedial technologies that permanently and significantly reduce toxicity, mobility, or volume of contaminants as their principal element. The following is the hierarchy of source removal and control measures that are to be used to remediate a Site, ranked from most preferable to least preferable: removal and/or treatment, containment, elimination of exposure and treatment of source at the point of exposure. It is preferred to use treatment or removal to eliminate contaminants at a Site, reduce the total mass of toxic contaminants, cause irreversible reduction in contaminants mobility, or reduce of total volume of contaminated media.

Alternative 1 would permanently eliminate the toxicity, mobility, and volume of contaminants from on-site soil by meeting Track 1 Unrestricted Use SCOs.

Alternative 2 would permanently remove most of the contaminated soil/fill at the Site, and any remaining soil/fill would meet Track 4 Site-Specific SCOs. Alternative 1 would eliminate a greater total mass of contaminants on Site.

The removal of soils from 6 feet to 19 feet for the new development in both scenarios would probably result in relatively minor differences between these two alternatives.

Implementability

This evaluation criterion addresses the technical and administrative feasibility of implementing an alternative and the availability of various services and materials required during its implementation, including technical feasibility of construction and operation, reliability of the selected technology, ease of undertaking remedial action, monitoring considerations, administrative feasibility (e.g. obtaining permits for remedial activities), and availability of services and materials.

The techniques, materials and equipment to implement both remedial Alternatives 1 and 2 are readily available and have been proven effective in remediating the contaminants associated with the Site. They use standard materials and services that are well established technology. The reliability of each remedy is also high. There are no special difficulties associated with any of the activities proposed.

Cost effectiveness

This evaluation criterion addresses the cost of alternatives, including capital costs (such as construction costs, equipment costs, and disposal costs, engineering expenses) and site management costs (costs incurred after remedial construction is complete) necessary to ensure the continued effectiveness of a remedial action.

Historic fill at the Site was found during the RI to extend to a depth of up to 12 feet below grade, and the new building requires excavation of the property Site to a depth of 5’ 11” feet to 19’ 11” feet below the building footprint. Costs associated with Alternative 1 would be significantly higher than Alternative 2 based on higher volume of soil removal. However, long-

term costs would be higher for Alternative 2 than Alternative 1 based on implementation of a Site Management Plan. In both cases, appropriate public health and environmental protections are achieved.

The remedial plan creates an approach that combines the remedial action with the redevelopment of the Site, including the construction of the building foundation and subgrade structures. The remedial plan is also cost effective in that it will take into consideration the selection of the closest and most appropriate disposal facilities to reduce transportation and disposal costs during the excavation of historic fill and other soils during the redevelopment of the Site.

Community Acceptance

This evaluation criterion addresses community opinion and support for the remedial action. Observations here will be supplemented by public comment received on the RAWP.

Based on the overall goals of the remedial program and the intended Site use, it is anticipated that both Alternatives 1 and 2 for the Site would be acceptable to the community. This RAWP will be subject to public review under the NYC VCP and will provide the opportunity for detailed public input on the remedial alternatives and the selected remedial action. This public comment will be considered by OER prior to approval of this plan. The Citizen Participation Plan for the project is provided in Appendix I.

Land use

This evaluation criterion addresses the proposed use of the property. This evaluation has considered reasonably anticipated future uses of the Site and takes into account: current use and historical and/or recent development patterns; applicable zoning laws and maps; NYS Department of State's Brownfield Opportunity Areas (BOA) pursuant to section 970-r of the general municipal law; applicable land use plans; proximity to real property currently used for residential use, and to commercial, industrial, agricultural, and/or recreational areas; environmental justice impacts, Federal or State land use designations; population growth patterns

and projections; accessibility to existing infrastructure; proximity of the site to important cultural resources and natural resources, potential vulnerability of groundwater to contamination that might emanate from the site, proximity to flood plains, geography and geology; and current Institutional Controls applicable to the site.

The proposed redevelopment of the Site is compatible with its current M1-1 and R7-2 zoning designation and is consistent with recent development patterns. Following remediation, the Site will meet either Track 1 Unrestricted Use or Track 4 Site-Specific SCOs, both of which are appropriate for its planned residential use. Improvements in the current environmental condition of the property achieved by both alternatives are also consistent with the City's goals for cleanup of contaminated land and bringing such properties into productive reuse. Both alternatives are equally protective of natural resources and cultural resources.

Sustainability of the Remedial Action

This criterion evaluates the overall sustainability of the remedial action alternatives and the degree to which sustainable means are employed to implement the remedial action including those that take into consideration NYC's sustainability goals defined in *PlaNYC: A Greener, Greater New York*. Sustainability goals may include: maximizing the recycling and reuse of non-virgin materials; reducing the consumption of virgin and non-renewable resources; minimizing energy consumption and greenhouse gas emissions; improving energy efficiency; and promotion of the use of native vegetation and enhancing biodiversity during landscaping associated with Site development. A sustainability statement is provided in Appendix B.

While Alternative 2 would potentially result in lower energy usage based on reducing the volume of material transported off-Site, both remedial alternatives are comparable with respect to the opportunity to achieve sustainable remedial action. The remedial plan would take into consideration the shortest trucking routes during off-Site disposal of historic fill and other soils, which would reduce greenhouse gas emissions and conserve energy used to fuel trucks. To the extent practicable, energy efficient building materials, appliances, and equipment will be utilized to complete the development. A complete list of green remedial activities considered as part of the NYC VCP is included in the Sustainability Statement, included as Appendix C.

4.0 REMEDIAL ACTION

4.1 SUMMARY OF PREFERRED REMEDIAL ACTION

The preferred remedial action alternative is Alternative 2. The preferred remedial action alternative achieves protection of public health and the environment for the intended use of the property. The preferred remedial action alternative will achieve all of the remedial action objectives established for the project and addresses applicable SCGs. The preferred remedial action alternative is effective in both the short-term and long-term and reduces mobility, toxicity and volume of contaminants. The preferred remedial action alternative is cost effective and implementable and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and performance of all required NYC VCP Citizen Participation activities according to an approved Citizen Participation Plan;
2. Performance of a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
3. Establishment of Site Specific Track 4 Soil Cleanup Objectives (SCOs).
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking & staking excavation areas;
5. Completion of a Waste Characterization Study prior to excavation activities. Waste characterization soil samples will be collected at a frequency dictated by disposal facility(s).
6. Excavation and removal of soil/fill exceeding Track 4 SCOs. For development purposes, the property will be excavated to depth of from 6 feet (entire property) to more than 19 feet (west side of property) for the new building's cellar. Two shallow hotspot areas at SB-1 and SB-2 (for lead and SVOC) would be delineated and removed during new development. Approximately 1,050 tons of soil will be removed;
7. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated

media on-Site;

8. Management of excavated materials including temporarily stockpiling and segregating in accordance with defined material types and to prevent co-mingling of contaminated material and non-contaminated materials.

9. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations;

10. Transportation and off-Site disposal of all soil/fill material at licensed or permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of excavated media as required by disposal facilities. Appropriate segregation of excavated media on-Site.

11. Collection and analysis of post-excavation end-point samples to determine the performance of the remedy with respect to attainment of SCOs;

12. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations;

13. Construction and maintenance of an engineered composite cover consisting of a 5" inch thick concrete building slab;

14. Installation a vapor barrier system beneath the building slab (Cupolex) and outside foundation sidewalls below grade (Grace Prepruf 300R or similar). Cupolex is a patented concrete forming system for floors constructed from recycled plastic. The Cupolex units are placed on the soil and concrete is poured on top creating minimal contact of concrete to soil while creating a large void space effectively controlling vapor intrusion into living space, preventing human exposure to residual soil/fill remaining under the Site;

15. Construction and operation of a cellar level parking garage with high volume air exchange in conformance with NYC Building Code.

16. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.

17. Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.

18. Dewatering in compliance with city, state, and federal laws and regulations. Extracted groundwater will either be containerized for off-site licensed or permitted disposal or will be treated under a permit from New York City Department of Environmental Protection (NYCDEP) to meet pretreatment requirements prior to discharge to the sewer system. Since groundwater is at a depth of 7'11" feet below ground surface, dewatering is required and permits will be obtained from NYCDEP.

19. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations.

20. Submission of a RAR that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, lists any changes from this RAWP, and describes all Engineering and Institutional Controls to be implemented at the Site;

21. Submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for maintenance, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency; and

The property will continue to be registered with an E-designation at the NYC Buildings Department. Establishment of Engineering Controls and Institutional Controls in this RAWP and a requirement that management of these controls must be in compliance with an approved SMP. Institutional Controls will include prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

4.2 SOIL CLEANUP OBJECTIVES AND SOIL/FILL MANAGEMENT

Track 4 Soil Cleanup Objectives (SCOs) are proposed for this project. The SCOs for this Site are 6 NYCRR Part 375 Table 6.2 (b) as amended by following site specific SCOs:

- SVOCs – 250 ppm
- Lead – 1000 ppm
- Barium – 600 ppm
- Arsenic – 16 ppm

Soil and materials management on-Site and off-Site, including excavation, handling and disposal, will be conducted in accordance with the Soil/Materials Management Plan in Appendix 3. The location of planned excavations is shown in Figure 5.0.

Discrete contaminant sources (such as hotspots) identified during the remedial action will be identified by GPS or surveyed. This information will be provided in the Remedial Action Report.

Estimated Soil/Fill Removal Quantities

The total quantity of soil/fill expected to be excavated and disposed off-Site is 1,055 tons. The disposal locations for Site-derived impacted materials will be reported to OER when they are identified and prior to the start of remedial action. Additional disposal locations established at a later date will be reported promptly to the OER Project Manager. A pre-approval letter from all disposal facilities will be provided to OER prior to any soil/fill material removal from the site. If a different or additional disposal facility(ies) for the soil/fill material is selected, OER will be notified in advance and documentation of the facility permitting and acceptance criteria, rationale for acceptance and final disposal documentation will be provided in the RAR.

Disposal Facility	**Waste Type**	**Estimated Quantities**
Permitted facility to be named	Historic Fill	1,055 tons

End-Point Sampling

Removal actions for development purposes under this plan will be performed in conjunction with confirmation soil sampling. Four confirmation samples will be collected from the base of the excavation at locations to be determined by OER. For comparison to Track 1 SCOs, analytes will include VOCs, SVOC, pesticides, PCBs and metals according to analytical methods described below. For comparison to Track 4 SCOs, analytes will only include trigger compounds and elements established on the Track 4 SCO list.

Hot-spot removal actions, whether established under this RAWP or identified during the remedial program, will be performed in conjunction with post remedial end-point samples to ensure that hot-spots are fully removed. Analytes for end-point sampling will be those parameters that are driving the hot-spot removal action and will be approved by OER. Frequency for hot-spot end-point sample collection is as follows:

1. For excavations less than 20 feet in total perimeter, at least one bottom sample and one sidewall sample biased in the direction of surface runoff.

2. For excavations 20 to 300 feet in perimeter:

    - For surface removals, one sample from the top of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
    - For subsurface removals, one sample from each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.

3. For sampling of volatile organics, bottom samples should be taken within 24 hours of excavation, and should be taken from the zero to six-inch interval at the excavation floor. Samples taken after 24 hours should be taken at six to twelve inches.

4. For contaminated soil removal, post remediation soil samples for laboratory analysis should be taken immediately after contaminated soil removal. If the excavation is enlarged horizontally, additional soil samples will be taken pursuant to bullets 1-3 above.

Post-remediation end-point sample locations and depth will be biased towards the areas and depths of highest contamination identified during previous sampling episodes unless field indicators such as field instrument measurements or visual contamination identified during the remedial action indicate that other locations and depths may be more heavily contaminated. In all cases, post-remediation samples should be biased toward locations and depths of the highest expected contamination.

New York State ELAP certified labs will be used for all confirmation and end-point sample analyses. Labs performing confirmation and end-point sample analyses will be reported in the RAR. The RAR will provide a tabular and map summary of all confirmation and end-point sample results and will include all data including non-detects and applicable standards and/or guidance values. End-point samples will be Confirmation samples will be analyzed for compounds and elements as described above utilizing the following methodology:

Soil analytical methods will include:

- Volatile organic compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Target Analyte List metals; and
- Pesticides/PCBs by EPA Method 8081/8082.

If either LNAPL and/or DNAPL are detected, appropriate samples will be collected for characterization and "finger print analysis" and required regulatory reporting (i.e. spills hotline) will be performed.

Quality Assurance/Quality Control

The fundamental QA objective with respect to accuracy, precision, and sensitivity of analysis for laboratory analytical data is to achieve the QC acceptance of the analytical protocol. The accuracy, precision and completeness requirements will be addressed by the laboratory for all data generated.

One duplicate sample and field and lab blank samples will be analyzed to assess sampling and lab artifacts. The chemical analytical laboratory used is NYS ELAP certified and is York Analytical Laboratories (10854) for soils and groundwater.

Collected samples will be appropriately packaged, placed in coolers and shipped via overnight courier or delivered directly to the analytical laboratory by field personnel. Samples will be containerized in appropriate laboratory provided glassware and shipped in plastic coolers. Samples will be preserved through the use of ice or "cold-paks" to maintain a temperature of 4ºC.

Dedicated disposable sampling materials will be used for the collection endpoint samples, eliminating the need to prepare field equipment (rinsate) blanks. However, if non-disposable equipment is used, (stainless steel scoop, etc.) field rinsate blanks will be prepared at the rate of 1 for every eight samples collected. Decontamination of non-dedicated sampling equipment will consist of the following:

- Gently tap or scrape to remove adhered soil
- Rinse with tap water
- Wash with Alconox® detergent solution and scrub
- Rinse with tap water
- Rinse with distilled or deionized water

Prepare field blanks by pouring distilled or deionized water over decontaminated equipment and collecting the water in laboratory provided containers. Trip blanks will be used whenever samples are transported to the laboratory for analysis of VOCs. Trip blanks will not be used for samples to be analyzed for metals, SVOCs or pesticides. One blind duplicate sample will be prepared and submitted for analysis every 20 samples.

Import and Reuse of Soils

Import of soils onto the property and reuse of soils already onsite will be performed in conformance with the Soil/Materials Management Plan in Appendix 3. The estimated quantity of soil to be imported into the Site for backfill and cover soil is 1,050 tons.

4.3 ENGINEERING CONTROLS

The excavation required for the proposed Site development will achieve Track 4 Site Specific SCOs. Engineering Controls are required to address residual contamination at the Site. The following engineering controls will be incorporated into the foundation design: composite cover system and waterproofing/vapor barrier system to address residual contamination remaining at the site:

Composite Cover System

Exposure to residual soil/fill will be prevented by an engineered, composite cover system to be built on the Site. This composite cover system is comprised of:

- Two feet of clean fill material in landscaped areas (open space). Landscaped areas are on top of concrete garage, stormwater management addressed in site engineering/architectural plans;
- Concrete foundation building 5" thick slab ; and
- Concrete sidewalks;

The composite cover system would be a permanent engineering control for the Site. The system will be inspected and reported at specified intervals as required by this RAWP and the SMP. A Soil Management Plan will be included in the Site Management Plan and will outline the procedures to be followed in the event that the composite cover system and underlying residual soil/fill is disturbed after the remedial action is complete. Maintenance of this composite cover system will be described in the Site Management Plan in the RAR.

Vapor Barrier

Migration of soil vapor will be mitigated with a combination of building slab and vapor barrier.

The vapor barrier system design and installation will include the following:

- Installation of either 7" or 12" Cupolex® concrete forming system or OER approved equivalent will be installed under building slab. Cupolex is a patented concrete forming system for floors constructed from recycled plastic. The cupolex units are placed on the soil and concrete is poured on top creating minimal contact of concrete to soil while creating a large void space to effectively controlling vapor intrusion into living space, preventing human exposure to residual soil/fill remaining under the Site.

- Grace Prepruf 300R or similar products on excavation sidewalls up to grade level.

- Stamped design drawings detailing installation will be submitted to OER prior to construction.

The Cupolex system will be set above a gravel bed or rat slab below the vapor retarder. A ventilation stack will run up through the roof. This system will also act as a passive SSDS. See Appendices for additional information including design drawings and diagrams and manufacturer documentation.

The project's Professional Engineer licensed by the State of New York will have primary direct responsibility for overseeing the implementation of the vapor barrier. The Remedial Action Report will include photographs (maximum of two photos per page) of the installation process, PE/RA certified letter (on company letterhead) from primary contractor responsible for installation oversight and field inspections, and a copy of the manufacturers certificate of warranty**.**

Appendix G includes Design Diagrams and Specifications and manufacturer documentation for Vapor Barrier/Waterproofing Membrane.

4.4 INSTITUTIONAL CONTROLS

Institutional Controls (IC) have been incorporated in this remedial action to manage residual soil/fill and other media and render the Site protective of public health and the environment. Institutional Controls are listed below. Long-term employment of EC/ICs will be implemented under a site-specific Site Management Plan (SMP) that will be included in the RAR.

Institutional Controls for this remedial action are:

- The property will continue to be registered with an E-Designation at the NYC Buildings Department. This RAWP includes a description of all ECs and ICs and summarizes the requirements of the Site Management Plan which will note that the property owner and property owner's successors and assigns must comply with the approved SMP;
- Submittal of a Site Management Plan in the RAR for approval by OER that provides procedures for appropriate operation, maintenance, monitoring, inspection, reporting and certification of ECs. SMP will require that the property owner and property owner's successors and assigns will submit to OER a periodic written statement that certifies that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by OER; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. OER retains the right to enter the Site in order to evaluate the continued maintenance of any controls. This certification shall be submitted at a frequency to be determine by OER in the SMP and will comply with RCNY §43-1407(l)(3).
- Vegetable gardens and farming on the Site are prohibited in contact with residual soil materials;
- Use of groundwater underlying the Site is prohibited without treatment rendering it safe for its intended use;
- All future activities on the Site that will disturb residual material must be conducted pursuant to the soil management provisions in an approved SMP;

- The Site will be used for residential use and will not be used for a higher level of use without prior approval by OER.

4.5 SITE MANAGEMENT PLAN

Site Management will be performed for this Track 4 cleanup and will the last phase of remediation and begins with the approval of the Remedial Action Report and issuance of the Notice of Completion (NOC) for the Remedial Action. The Site Management Plan (SMP) describes appropriate methods and procedures to ensure implementation of all ECs and ICs that are required by this RAWP. The Site Management Plan is submitted as part of the RAR but will be written in a manner that allows its use as an independent document. Site Management continues until terminated in writing by OER. The property owner is responsible to ensure that all Site Management responsibilities defined in this RAWP and the Site Management Plan are implemented.

The SMP will provide a detailed description of the procedures required to manage residual soil/fill left in place following completion of the remedial action in accordance with the Brownfield Cleanup Agreement with OER. This includes a plan for: (1) implementation of EC's and ICs; (2) implementation of monitoring programs; (3) operation and maintenance of EC's; (4) inspection and certification of EC's; and (5) reporting.

Site management activities, reporting, and EC/IC certification will be scheduled by OER on a periodic basis to be established in the SMP and will be subject to review and modification by OER. The Site Management Plan will be based on a calendar year and certification reports will be due for submission to OER by March 31 of the year following the reporting period.

4.6 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

Investigations reported in the Remedial Investigation Report (RIR) are sufficient to complete a Qualitative Human Health Exposure Assessment (QHHEA).

The objective of the qualitative exposure assessment is to identify potential receptors and pathways for human exposure to the contaminants of concern (COC) that are present at, or migrating from, the Site. The identification of exposure pathways describes the route that the

COC takes to travel from the source to the receptor. An identified pathway indicates that the potential for exposure exists; it does not imply that exposures actually occur.

Investigations reported in the Remedial Investigation Report (RIR) are sufficient to complete a Qualitative Human Health Exposure Assessment (QHHEA). As part of the VCP process, a QHHEA was performed to determine whether the Site poses an existing or future health hazard to the Site's exposed or potentially exposed population. The sampling data from the RI were evaluated to determine whether there is any health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. This QHHEA was prepared in accordance with Appendix 3B and Section 3.3 (b) 8 of the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation.

Known and Potential Sources

Historic fill material is present at the Site from grade to approximately 2 feet below grade. Based on the results of the Remedial Investigation Report the contaminants of concern found are:

Soil

- The VOC Acetone was detected above its Unrestricted Use SCO
- SVOCs (PAH compounds) Benzo (a) anthracene, Benzo (a) Pyrene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Fluoranthene, Indeno (1,2,3-cd) pyrene, Phenanthrene, and Pyrene exceeded Restricted Residential Use SCOs.
- Metals, including arsenic, barium, cadmium, copper, lead, and zinc were detected above Restricted Residential Use SCOs;
- Two pesticides including 4,4-DDE and 4,4-DDT were detected but did not exceed Restricted Residential Use SCOs;

Groundwater

- No detections of VOC, SVOCs, PCBs, pesticides or metals above GQS

Soil Vapor

- Low concentrations of petroleum related and chlorinated VOCs

Nature, Extent, Fate and Transport of Contaminants

SVOCs and metals are present in the shallow soils/fill materials throughout the Site. Two hotspots (for metals and high SVOCs) were identified during investigations. Pesticides were detected in one shallow sample. SVOCs were not identified in groundwater. Dissolved metals including iron, magnesium, manganese, and sodium were detected above GQS. The chlorinated VOCs in soil vapor were not detected or were well below guidance issued by New York State DOH, and were also not found in any of the on-Site soil or groundwater samples collected.

Potential Routes of Exposure

The five elements of an exposure pathway are: (1) a contaminant source; (2) contaminant release and transport mechanisms; (3) a point of exposure; (4) a route of exposure; and (5) a receptor population. An exposure pathway is considered complete when all five elements of an exposure pathway are documented. A potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway cannot be documented. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and will never exist in the future. Three potential primary routes exist by which chemicals can enter the body:

- Ingestion of water, fill, or soil;
- Inhalation of vapors and particulates; and
- Dermal contact with water, fill, soil, or building materials

Existence of Human Health Exposure

Current Conditions: Currently, the Site maintains a vacant building, but will be demolished, and left for a time uncovered, prior to the redevelopment, allowing for several pathways to exposure including; inhalation, ingestion, and absorption of site soils. Site is served by the public water supply and groundwater use for potable supply is prohibited, groundwater is not used at the Site and there is no potential for exposure. There is currently structure onsite and accumulation of soil vapor can pose an exposure threat.

Construction/ Remediation Activities: The proposed development of the site will include soil/fill excavations for both remedial and construction purposes. Once redevelopment activities

begin, construction workers will come into direct contact with surface and subsurface soils and groundwater, as a result of on-Site construction and excavation activities. On-Site construction workers potentially could ingest, inhale or have dermal contact with any exposed impacted soil/fill and groundwater. Similarly, off-Site receptors could be exposed to dust and vapors from on-Site activities. Limited dewatering activities will also provide direct routes of exposure to on-site workers. The exposures related to construction and/or remediation activities will be limited in duration to the intrusive portions of the work. During construction, on-Site and off-Site exposures to contaminated dust from on-Site will be addressed through the Soil/Materials Management Plan, dust controls, and through the implementation of the Community Air-Monitoring Program and a Construction Health and Safety Plan. The Construction Health and Safety Plan provided in Appendix D.

Proposed Future Conditions: Under future remediated conditions, all soils in excess of Track 4 Site Specific SCOs will be removed. The Site will be fully capped, limiting potential direct exposure to soil and groundwater remaining in place, and a waterproofing/vapor barrier system will prevent any exposure to potential off site soil vapors in the future. The Site is served by a public water supply, and groundwater is not used at the Site for potable supply. There are no plausible off-Site pathways for ingestion, inhalation, or dermal exposure to contaminants derived from the Site under future conditions.

Receptor Populations

On-Site Receptors – Currently, the Site maintains a vacant building, but will be demolished, and left for a time uncovered, prior to the redevelopment. The on-site potential sensitive receptors include adult and child visitors and trespassers and pedestrians. During redevelopment of the Site, the on-site potential sensitive receptors will include construction workers and possibly pedestrians and nearby residents. Once the Site is redeveloped, the on-site potential sensitive receptors will include adult and child residents, visitors and maintenance staff. There will be no potential offsite receptors after development is complete. Proposed Development Plans can be found in Appendix E.

Off-Site Receptors - Potential off-Site receptors within a 0.25-mile radius of the Site include: adult and child residents, and commercial and construction workers, pedestrians, trespassers, and cyclists, based on the following:

1. Commercial Businesses (up to 0.25 mile) – existing and future
2. Residential Buildings (up to 0.25 mile) – existing and future
3. Building Construction/Renovation (up to 0.25 mile) – existing and future
4. Pedestrians, Trespassers, Cyclists (up to .25 mile) – existing and future
5. Schools (up to .25 mile) – existing and future

Overall Human Health Exposure Assessment

There are potential complete exposure pathways for the current site condition. There is a potential complete exposure pathway that requires mitigation during implementation of the remedy. There is no complete exposure pathway under future conditions after the site is developed. Current potential exposure pathways will be eliminated by the remedial action. During the remedial action, on-site and offsite exposure pathways will be eliminated by preventing access to the site, through implementation of soil/materials management, stormwater pollution prevention and dust controls, employment of a community air monitoring plan, and implementation of a Construction Health and Safety Plan. After the remedial action is complete, there will be no remaining exposure pathways to on-Site soil/fill, as all soil above Site Specific SCOs would have been removed and encapsulated by the building's concrete slab, and a vapor barrier system would have been installed as part of development.

This assessment takes into consideration the reasonably anticipated use of the site, which includes a residential structure, site-wide impervious surface cover cap, and a subsurface vapor barrier and SSDS system for the building. Potential post-construction use of groundwater is not considered an option because groundwater in this area of New York City is not used as a potable water source. There are no surface waters in close proximity to the Site that could be impacted or threatened.

5.0 REMEDIAL ACTION MANAGEMENT

5.1 PROJECT ORGANIZATION AND OVERSIGHT

Principal personnel who will participate in the remedial action include Scott A Yanuck and Thomas H Johansen. The Professional Engineer (PE) and Qualified Environmental Professional (QEP) for this project is Richard D. Galli and Scott A. Yanuck, respectively.

5.2 SITE SECURITY

Site access will be controlled by gated entrances to the fenced property.

5.3 WORK HOURS

The hours for operation of remedial construction will be from 8 AM to 4 PM. These hours conform to the New York City Department of Buildings construction code requirements.

5.4 CONSTRUCTION HEALTH AND SAFETY PLAN

The Health and Safety Plan is included in Appendix D. The Site Safety Coordinator will be Scott A. Yanuck. Remedial work performed under this RAWP will be in full compliance with applicable health and safety laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. Confined space entry, if any, will comply with OSHA requirements and industry standards and will address potential risks. The parties performing the remedial construction work will ensure that performance of work is in compliance with the HASP and applicable laws and regulations. The HASP pertains to remedial and invasive work performed at the Site until the issuance of the Notice of Completion.

All field personnel involved in remedial activities will participate in training required under 29 CFR 1910.120, including 40-hour hazardous waste operator training and annual 8-hour refresher training. Site Safety Officer will be responsible for maintaining workers training records.

Personnel entering any exclusion zone will be trained in the provisions of the HASP and be required to sign an HASP acknowledgment. Site-specific training will be provided to field personnel. Additional safety training may be added depending on the tasks performed. Emergency

telephone numbers will be posted at the site location before any remedial work begins. A safety meeting will be conducted before each shift begins. Topics to be discussed include task hazards and protective measures (physical, chemical, environmental); emergency procedures; PPE levels and other relevant safety topics. Meetings will be documented in a log book or specific form.

An emergency contact sheet with names and phone numbers is included in the HASP. That document will define the specific project contacts for use in case of emergency.

5.5 COMMUNITY AIR MONITORING PLAN

Real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedences of action levels observed during performance of the Community Air Monitoring Plan (CAMP) will be reported to the OER Project Manager and included in the Daily Report.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis during invasive work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish

background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for OER personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for OER personnel to review.

5.6 AGENCY APPROVALS

All permits or government approvals required for remedial construction have been or will be obtained prior to the start of remedial construction. Approval of this RAWP by OER does not constitute satisfaction of these requirements and will not be a substitute for any required permit.

5.7 SITE PREPARATION

Pre-Construction Meeting

OER will be invited to attend the pre-construction meeting at the Site with all parties involved in the remedial process prior to the start of remedial construction activities.

Mobilization

Mobilization will be conducted as necessary for each phase of work at the Site. Mobilization includes field personnel orientation, equipment mobilization (including securing all sampling equipment needed for the field investigation), marking/staking sampling locations and utility

mark-outs. Each field team member will attend an orientation meeting to become familiar with the general operation of the Site, health and safety requirements, and field procedures.

Utility Marker Layouts, Easement Layouts

The presence of utilities and easements on the Site will be fully investigated prior to the performance of invasive work such as excavation or drilling under this plan by using, at a minimum, the One-Call System (811). Underground utilities may pose an electrocution, explosion, or other hazard during excavation or drilling activities. All invasive activities will be performed incompliance with applicable laws and regulations to assure safety. Utility companies and other responsible authorities will be contacted to locate and mark the locations, and a copy of the Markout Ticket will be retained by the contractor prior to the start of drilling, excavation or other invasive subsurface operations. Overhead utilities may also be present within the anticipated work zones. Electrical hazards associated with drilling in the vicinity of overhead utilities will be prevented by maintaining a safe distance between overhead power lines and drill rig masts.

Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations will be employed during invasive and other work contemplated under this RAWP. The integrity and safety of on-Site and off-Site structures will be maintained during all invasive, excavation or other remedial activity performed under the RAWP.

Equipment and Material Staging

Equipment and materials will be stored and staged in a manner that complies with applicable laws and regulations.

Stabilized Construction Entrance

Steps will be taken to ensure that trucks departing the site will not track soil, fill or debris off-Site. Such actions may include use of cleaned asphalt or concrete roads or use of stone or other aggregate-based egress paths between the truck inspection station and the property exit. Measures will be taken to ensure that adjacent roadways will be kept clean of project related soils, fill and debris.

Truck Inspection Station

An outbound-truck inspection station will be set up close to the Site exit. Before exiting the NYC VCP Site, trucks will be required to stop at the truck inspection station and will be examined for evidence of contaminated soil on the undercarriage, body, and wheels. Soil and debris will be removed. Brooms, shovels and potable water will be utilized for the removal of soil from vehicles and equipment, as necessary.

Extreme Storm Preparedness and Response Contingency Plan

Damage from flooding or storm surge can include dislocation of soil and stockpiled materials, dislocation of site structures and construction materials and equipment, and dislocation of support of excavation structures. Damage from wind during an extreme storm event can create unsafe or unstable structures, damage safety structures and cause downed power lines creating dangerous site conditions and loss of power. In the event of emergency conditions caused by an extreme storm event, the enrollee will undertake the following steps for site preparedness prior to the event and response after the event.

Storm Preparedness

Preparations in advance of an extreme storm event will include the following: containerized hazardous materials and fuels will be removed from the property; lose materials will be secured to prevent dislocation and blowing by wind or water; heavy equipment such as excavators and generators will be removed from holes, trenches and depressions on the property to high ground or removed from the property; an inventory of the property with photographs will be performed to establish conditions for the site and equipment prior to the event; stockpile covers for soil and fill will be secured by adding weights such as sandbags for added security and worn or ripped stockpile covers will be replaced with competent covers; stockpiled hazardous wastes will be removed from the property; stormwater management systems will be inspected and fortified, including, as necessary: clean and reposition silt fences, haybales; clean storm sewer filters and traps; and secure and protect pumps and hosing.

Storm Response

At the conclusion of an extreme storm event, as soon as it is safe to access the property, a complete inspection of the property will be performed. A site inspection report will be submitted

to OER at the completion of site inspection and after the site security is assessed. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. Damage from storm conditions that result in acute public safety threats, such as downed power lines or imminent collapse of buildings, structures or equipment will be reported to public safety authorities via appropriate means such as calling 911. Petroleum spills will be reported to NYS DEC within 2 hours of identification and consistent with State regulations. Emergency and spill conditions will also be reported to OER. Public safety structures, such as construction security fences will be repaired promptly to eliminate public safety threats. Debris will be collected and removed. Dewatering will be performed in compliance with existing laws and regulations and consistent with emergency notifications, if any, from proper authorities. Eroded areas of soil including unsafe slopes will be stabilized and fortified. Dislocated materials will by collected and appropriately managed. Support of excavation structure will be inspected and fortified as necessary. Impacted stockpiles will be contained and damaged stockpile covers will be replaced. Storm-water control systems and structures will be inspected and maintained as necessary. If soil or fill materials are discharged off site to adjacent properties, property owners and OER will be notified and corrective measure plan designed to remove and clean dislocated material will be submitted to OER and implemented following approval by OER and granting of site access by the property owner. Impacted offsite areas may require characterization based on site conditions, at the discretion of OER. If onsite petroleum spills are identified, a qualified environmental professional will determine the nature and extent of the spill and report to NYS DEC's spill hotline at DEC 800-457-7362. If the source of the spill is ongoing and can be identified, it should be stopped it this can be done safely. Potential hazards will be addressed immediately, consistent with guidance issued by NYS DEC.

Storm Response Reporting

A site inspection report will be submitted to OER at the completion of site inspection. An inspection report established by OER is available on OER's website (www.nyc.gov/oer) and will be used for this purpose. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. The site inspection report will be sent to the OER project manager and will include the site name, address, tax block and lot, site primary and alternate contact name and phone number. Damage and soil release assessment will include: whether the project had stockpiles; whether stockpiles were

damaged; photographs of damage and notice of plan for repair; report of whether soil from the site was dislocated and whether any of the soil left the site; estimates of the volume of soil that left the site, nature of impact, and photographs; description of erosion damage; description of equipment damage; description of damage to the remedial program or the construction program, such as damage to the support of excavation; presence of onsite or offsite exposure pathways caused by the storm; presence of petroleum or other spills and status of spill reporting to NYS DEC; description of corrective actions; schedule for corrective actions. This report should be completed and submitted to OER project manager with photographs within 24 hours of the time of safe entry to the property after the storm event.

5.8 TRAFFIC CONTROL

Drivers of trucks leaving the NYC VCP Site with soil/fill will be instructed to proceed without stopping in the vicinity of the site to prevent neighborhood impacts. The planned route on local roads for trucks leaving the site is as follows: north on Manhattan Avenue, right onto Newton Street, right onto McGuinness Boulevard, then join the Brooklyn-Queens Expressway (State Route 278), and follow to the Gowanus Expressway, and finally the Verrazano-Narrows Bridge to Staten Island. See Figure 6.0.

5.9 DEMOBILIZATION

Demobilization will include:

- As necessary, restoration of temporary access areas and areas that may have been disturbed to accommodate support areas (e.g., staging areas, decontamination areas, storage areas, temporary water management areas, and access area);
- Removal of sediment from erosion control measures and truck wash and disposal of materials in accordance with applicable laws and regulations;
- Equipment decontamination, and;
- General refuse disposal.

Equipment will be decontaminated and demobilized at the completion of all field activities. Investigation equipment and large equipment (*e.g.*, soil excavators) will be washed at the truck

inspection station as necessary. In addition, all investigation and remediation derived waste will be appropriately disposed.

Dewatering

Dewatering would be required in order to construct the garage and to excavate the contaminated soil and fill material below the saturated zone or water table (expected to be thirteen to fourteen feet below grade). Dewatering for this site would require a pumping system, settling tanks, possibly a treatment system, and the appropriate NYCDEP permits for discharge of the groundwater into the sewer system.

5.10 REPORTING AND RECORD KEEPING

Daily Reports

Daily reports providing a general summary of activities for each day of *active remedial work* will be emailed to the OER Project Manager by the end of the following day. Those reports will include:

- Project number and statement of the activities and an update of progress made and locations of work performed;
- Quantities of material imported and exported from the Site;
- Status of on-Site soil/fill stockpiles;
- A summary of all citizen complaints, with relevant details (basis of complaint; actions taken; etc.);
- A summary of CAMP excursions, if any;
- Photograph of notable Site conditions and activities.

The frequency of the reporting period may be revised in consultation with OER project manager based on planned project tasks. Daily email reports are not intended to be the primary mode of communication for notification to OER of emergencies (accidents, spills), requests for

changes to the RAWP or other sensitive or time critical information. However, such information will be included in the daily reports. Emergency conditions and changes to the RAWP will be communicated directly to the OER project manager by personal communication. Daily reports will be included as an Appendix in the Remedial Action Report.

Record Keeping and Photo-Documentation

Job-site record keeping for all remedial work will be performed. These records will be maintained on-Site during the project and will be available for inspection by OER staff. Representative photographs will be taken of the Site prior to any remedial activities and during major remedial activities to illustrate remedial program elements and contaminant source areas. Photographs will be submitted at the completion of the project in the RAR in digital format (i.e. jpeg files).

5.11 COMPLAINT MANAGEMENT

All complaints from citizens will be promptly reported to OER. Complaints will be addressed and outcomes will also be reported to OER in daily reports. Notices to OER will include the nature of the complaint, the party providing the complaint, and the actions taken to resolve any problems.

5.12 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

All changes to the RAWP will be reported to the OER Project Manager and will be documented in daily reports and reported in the Remedial Action Report. The process to be followed if there are any deviations from the RAWP will include a request for approval for the change from OER noting the following:

- Reasons for deviating from the approved RAWP;
- Effect of the deviations on overall remedy; and
- Determination that the remedial action with the deviation(s) is protective of public health and the environment.

5.13 DATA USABILITY SUMMARY REPORT

The primary objective of a Data Usability Summary Report (DUSR) is to determine whether or not data meets the site specific criteria for data quality and data use. The DUSR provides an evaluation of analytical data without third party data validation. The DUSR for post-remedial samples collected during implementation of this RAWP will be included in the Remedial Action Report (RAR).

6.0 REMEDIAL ACTION REPORT

A Remedial Action Report (RAR) will be submitted to OER following implementation of the remedial action defined in this RAWP. The RAR will document that the remedial work required under this RAWP has been completed and has been performed in compliance with this plan. The RAR will include:

- Information required by this RAWP;
- As-built drawings for all constructed remedial elements, required certifications, manifests and other written and photographic documentation of remedial work performed under this remedy;
- Site Management Plan
- Description of any changes in the remedial action from the elements provided in this RAWP and associated design documents;
- Tabular summary of all end point sampling results and all material characterization results, QA/QC results for end-point sampling, and other sampling and chemical analysis performed as part of the remedial action and DUSR;
- Test results or other evidence demonstrating that remedial systems are functioning properly;
- Account of the source area locations and characteristics of all contaminated material removed from the Site including a map showing source areas;
- Account of the disposal destination of all contaminated material removed from the Site. Documentation associated with disposal of all material will include transportation and disposal records, and letters approving receipt of the material.
- Account of the origin and required chemical quality testing for material imported onto the Site.
- Continue registration of the property with an E-Designation by the NYC Department of Buildings.
- Reports and supporting material will be submitted in digital form.

Remedial Action Report Certification

The following certification will appear in front of the Executive Summary of the Remedial Action Report. The certification will include the following statements:

I, _____, am currently a professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the Site name Site Site number.

I, _____, am a qualified Environmental Professional. I had primary direct responsibility for implementation remedial program for the Site name Site Site number . (Optional)

I certify that the OER-approved Remedial Action Work Plan dated month day year and Stipulations in a letter dated month day, year; if any were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

7.0 SCHEDULE

The table below presents a schedule for the proposed remedial action and reporting. If the schedule for remediation and development activities changes, it will be updated and submitted to OER. Currently, a 1 ½ month remediation period is anticipated.

Schedule Milestone	Weeks from Remedial Action Start	Duration (weeks)
OER Approval of RAWP	0	4
Fact Sheet 2 announcing start of remedy	0	1
Mobilization	1	2
Remedial Excavation	3	3
Demobilization	6	2
Submit Remedial Action Report	10	3

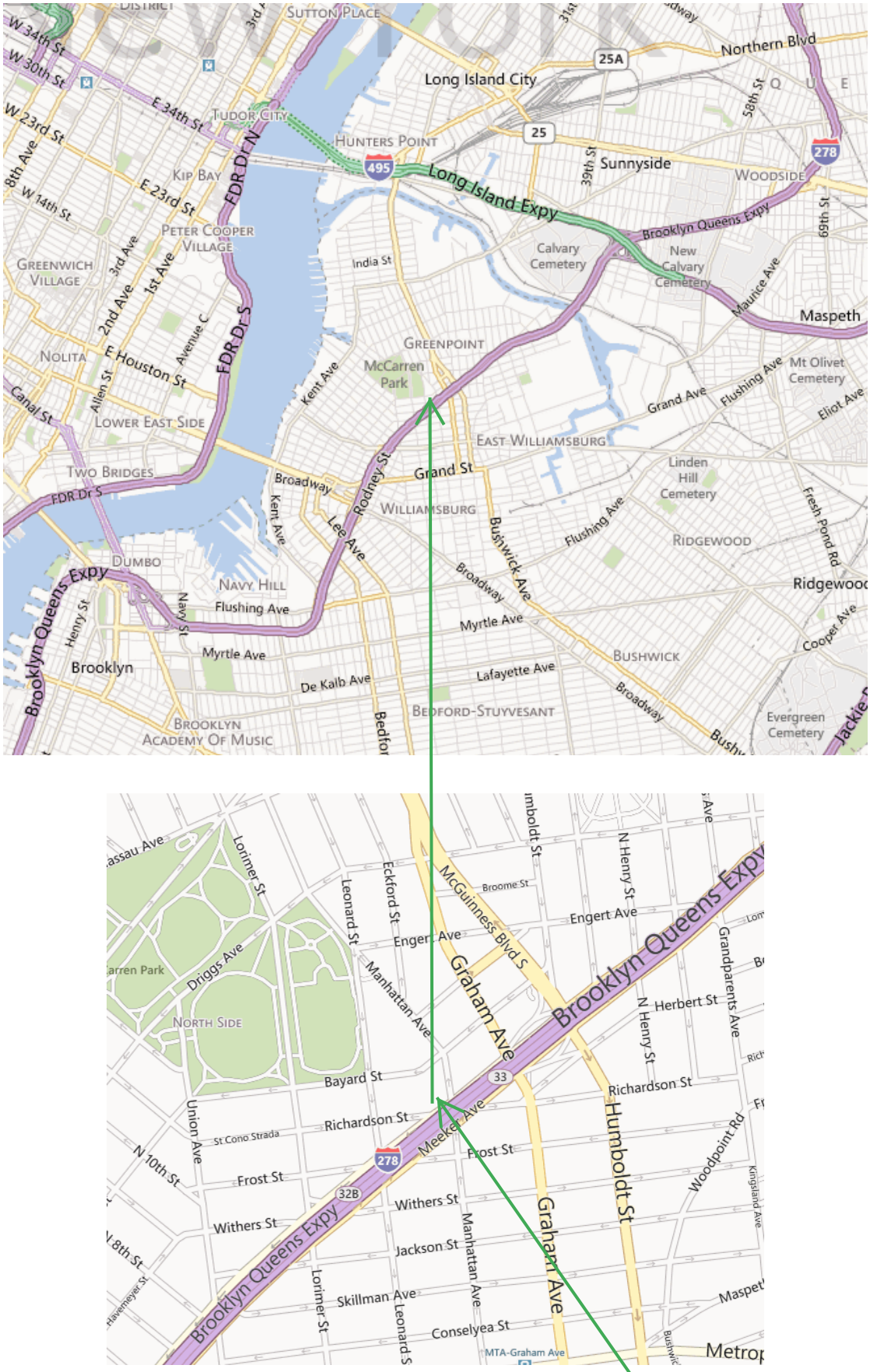


Figure 1.0 Site Location
415 Manhattan Avenue
Brooklyn, New York

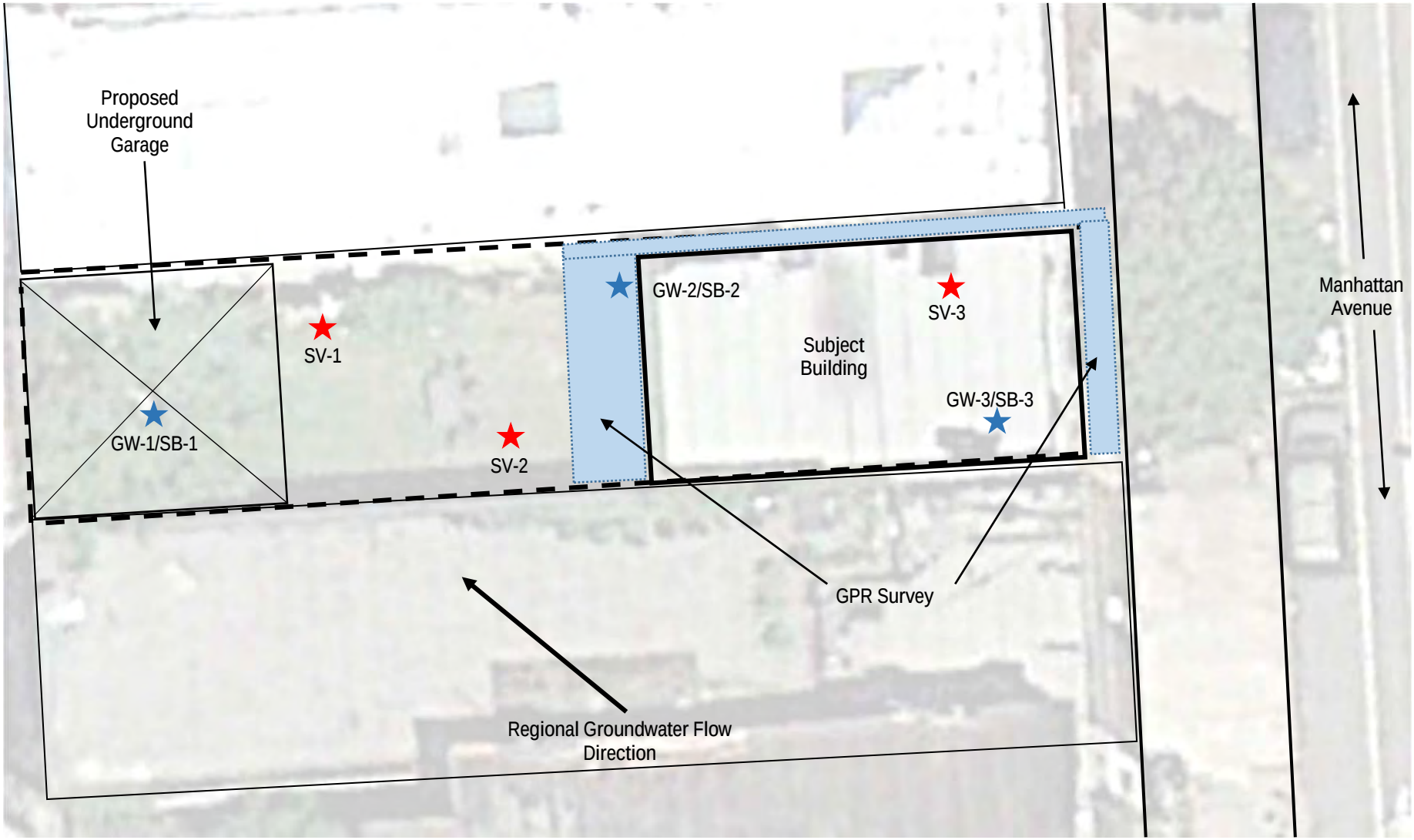


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FIGURE 2.1
SITE SKETCH
WITH PHASE II SAMPLING
LOCATIONS

415 MANHATTAN AVENUE
BROOKLYN, NEW YORK 11222

PROJECT #: 12-409

DRAWING DATE: 4-17-2013

DRAWN BY: THJ

CHECKED BY: CJC

REVISIONS: 6-5-2013

N

NOT TO SCALE

LEA makes no guarantees as to the accuracy of this drawing and it should only be used for informational purposes.

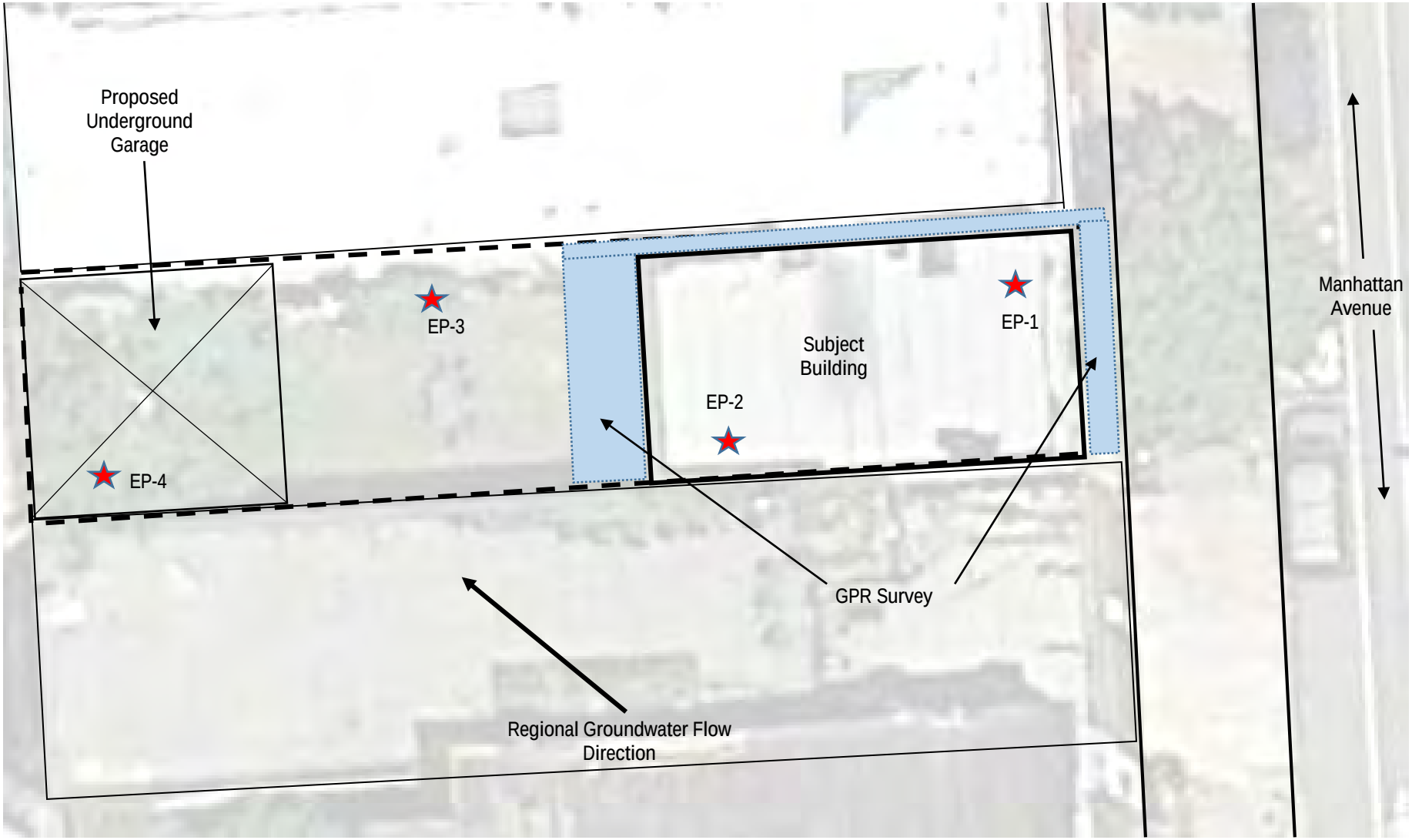

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FIGURE 2.2
SITE SKETCH
WITH PROPOSED ENDPOINT
SAMPLING LOCATIONS

415 MANHATTAN AVENUE
BROOKLYN, NEW YORK 11222

PROJECT #: 12-409

DRAWING DATE: 3-18-2014

DRAWN BY: THJ

CHECKED BY: CJC

REVISIONS: 6-5-2013

N

NOT TO SCALE

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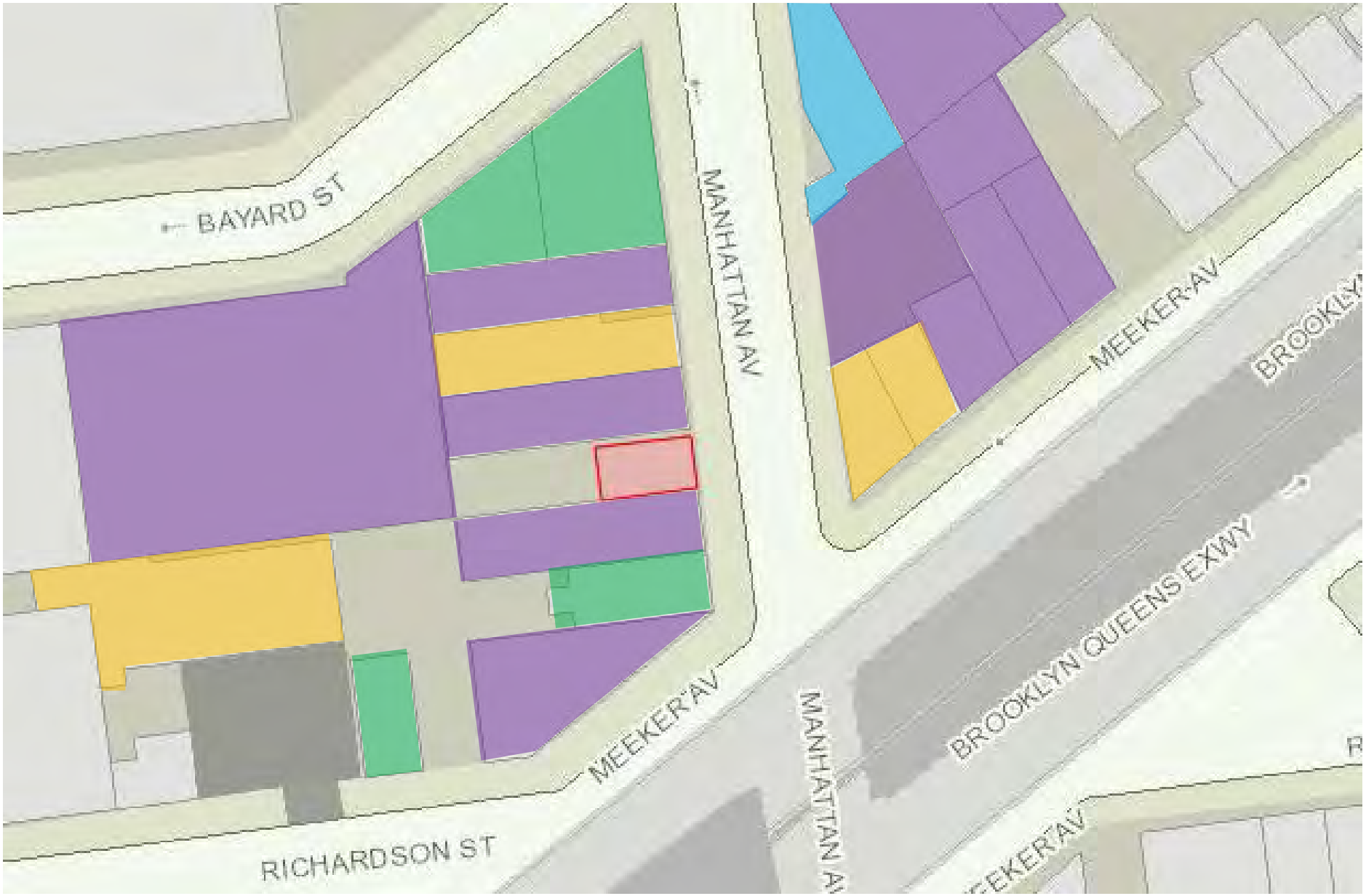

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FIGURE 3.0
MAP OF SURROUNDING PROPERTY USAGE

415 MANHATTAN AVENUE
BROOKLYN, NEW YORK 11222

PROJECT #: 12-409
DRAWING DATE: 3-18-2014
DRAWN BY: THJ
CHECKED BY: CJC
REVISIONS: 6-5-2013

N

- SUBJECT PROPERTY
- INDUSTRIAL AND MANUFACTURING
- COMMERCIAL & MIXED USE
- MULTI-FAMILY RESIDENTIAL
- PARKING

NOT TO SCALE

LEA makes no guarantees as to the accuracy of this drawing and it should only be used for informational purposes.

NOT FOR CONSTRUCTION

415 MANHATTAN AVENUE BROOKLYN N.Y. 11229

OWNER:

Joe Cielepak

ARCHITECT

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Sheet List

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PROJECT ADDRESS:
415 MANHATTAN AVENUE BROOKLYN N.Y. 11222

DOB APPLICATION NO.
Designer

PROJECT NUMBER:
32157

ADDRESS:
415 Manhattan Avenue, Brooklyn N.Y. 11211

BLOCK: 2723 C.B.: 301
LOT: 30 BIN#: 3067909
MAP: 13a
ZONE: M1-2/R6A,MX-8
USE GROUP: 2, 4
LOT SIZE: 25.00'x 100.00'
LOT AREA: 2,500 SF
OCC. GRP: R-2
CONSTR. CL.: IB
FIRE INDEX: 1

Proposed New 6 Story & Cellar (9) Family & Community Facility Building.

12-10 Base Plane Calculations
Base Plane is located at Property line (MANHATTAN AVENUE)= (13.42' + 13.48')/2 = 13.45'

123-20 Use Group 2&4:
Use Group 2 consists of all other types of "residential development:" Residences of all kinds, including... apartments.
Use Group 4 includes community facility.

23-22 Maximum number of dwelling units or rooming units
district R6A: factor for dwelling units: 680
maximum permitted no. of dwelling units:
6,750 SF / 680 = 10 d.u.s
(max f.a.r.) / (d.u. factor) = (max. no. of d.u.s)
Proposed number of DU's: 9 < 10 Therefore **OK**

123-32 Environmental Conditions
In Special Mixed Use Districts, all new dwelling units shall be provided with a minimum 35dB(A) of window wall attenuation to maintain an interior noise level of 45dB(A) or less, with windows closed, and shall provide an alternate means of ventilation.

23-32 Lot Area and Width
Min. Req'd. Lot Area: 1,700 SF
Proposed Lot Area: 2,500 SF > 1,700.00 SF Therefore **OK**
Min. Req'd. Lot Width: 18'-0"
Proposed Lot Width: 25'-0" > 18'-0" Therefore **OK**

123-64 Maximum Floor Area Ratio and Lot Coverage Requirements for Zoning Lots Containing Mixed Use Buildings
(a) Maximum Floor Area Ratio
(2)Community facility shall comply with 24-11
(3)Residential uses shall comply with 23-14, 23-141
(4)Mixed use buildings shall comply with base floor area ratio set by 23-952

24-11 Maximum Floor Area Ratio and Percentage of Lot Coverage
R6A: Max. F.A.R.= 3.00
Max. Permitted Floor Area: 2,500 SF x 3.00 = 7,500 SF
Total Proposed Community Zoning Floor Area:
2,229 SF < 7,500 SF, Therefore **OK** (See Z-004.00, Z-005.00)
Lot Coverage: 100% - Interior Lot within 100'-0" of the corner
Max. Permitted Footprint: 2,500 SF x 1.00 = 2,500 SF
Proposed Community Lot Coverage: 2,229 S.F. (See Z-004.00)
2,229 S.F. < 2,500 S.F. Therefore **OK**

23-953 Floor Area Compensation for Quality Housing
R6A: Max. F.A.R.= 2.70
Max. Permitted Floor Area: 2,500 SF x 2.70 = 6,750 SF
Total Proposed Residential Zoning Floor Area:
6,743.7 SF < 6,750 SF, Therefore **OK** (See Z-004.00, Z-005.00)
Lot Coverage: 65% - Interior Lot within 100'-0" of the corner
Max. Permitted Footprint: 2,500 SF x 0.65 = 1,625 SF
Proposed Residential Lot Coverage: 1,552.36 S.F. (See Z-004.00)
1,552.36 S.F. < 1,625 S.F. Therefore **OK**

FLOOR	USE	GROSS	DEDUCTIONS	ZONING	FAR
C	AMBULATORY DIAGNOSTIC HEALTH CARE FACILITY	1,891.63	1,891.63	0.00	0.000
C	COMMON MECHANICAL ROOMS	337.37	337.37	0.00	0.000
1	AMBULATORY DIAGNOSTIC HEALTH CARE FACILITY	92.47	0.00	92.47	0.037
1	RESIDENTIAL	919.88	440.11	479.77	[illegible]
2	RESIDENTIAL	1,019.49	252.90	766.59	[illegible]
3	RESIDENTIAL	1,552.36	216.84	1,335.52	0.534
4	RESIDENTIAL	1,552.36	216.84	1,335.52	0.534
5	RESIDENTIAL	1,552.36	216.84	1,335.52	0.534
6	RESIDENTIAL	1,469.95	203.57	1,266.38	0.507
R	RESIDENTIAL	572.25	460.28	111.97	[illegible]
TOTAL COMMUNITY FACILITY		2,321.47	2,229.00	92.47	.037
TOTAL RESIDENTIAL		8,638.59	1,987.38	6,651.21	[illegible]
TOTALS		10,960.06	4216.38	6743.68	[illegible]
	TOTAL ZONING FLOOR AREA			6,743.68	2.697

23-952 Floor area compensation in Inclusionary Housing designated areas
R6A: Base F.A.R.= 2.70
Base. Permitted Floor Area: 2,500 SF x 2.70 = 6,750 SF
Total Proposed Zoning Floor Area:
6,698 SF < 6,750 SF, Therefore **OK** (See Z-004.00, Z-005.00)
Lot Coverage: 65% - Interior Lot within 100'-0" of the corner
Max. Permitted Footprint: 2,500 SF x 0.65 = 1,625 SF
Proposed Lot Coverage: 1,552.36 S.F. (See Z-004.00)
1,552.36 S.F. < 1,625 S.F. Therefore **OK**

23-462 (c) Side Yards:
Min. Req.: None, but if provided, must be 8'-0" wide
Proposed: None Therefore **OK**

123-652 Minimum required rear yards within 100'-0" of corner
Not required In [R6A] within 100'-0" of a corner.
None required within 100' of corner -
Proposed: None Therefore **OK**

23-86 Minimum Distance between Required Windows and Walls or Lot Lines
In R6 District the minimum distance between any legally required windows and (c) lot line, or vertical projection of thereof; shall be 30 feet.
Proposed 30' < = 30', Therefore **OK**

23-62 Permitted obstructions in setback regulations

(g) Elevator or stair bulkheads and accessory mechanical equipment (including enclosures) are allowed as permitted obstruction within a required setback provided that:
(1)provided the aggregate width of street walls of such bulkheads within 10 feet of a street wall, facing each street frontage, times their average height, in feet, does not exceed an area equal to four times the width, in feet, of the street wall of the building facing such frontage;
Proposed area of street wall of the building = 25'-0" x 4 = 100 S.F.
Proposed aggregate width of bulkhead = 9'-2.5"
Proposed average height of bulkhead = 9'-9"
proposed area of bulkhead within 10 feet of street wall
= 9'-2.5 x 9'-9" - 89.78 S.F. < 100 S.F. Therefore **OK**

23-621 Permitted obstructions in certain districts
(1)No proposed Dormers Therefore **OK**

(2)Solar energy systems on a roof shall be limited to four feet or less in height, as measured from the maximum height limit, or the finished level of the roof, whichever is higher. However, on a roof with a slope greater than 20 degrees, such systems shall be limited to 18 inches in height as measured perpendicular to the roof surface.
Proposed solar panels 3'-0" above finished roof.
3'-0" < 4'-0" Therefore **OK**

24-651 Minimum Distance between Required Windows and Walls or Lot Lines
In R6 District the minimum distance between any legally required windows and (c) lot line, or vertical projection of thereof; shall be 30 feet.
Proposed 30' < = 30', Therefore **OK**

25-241 Reduced Parking Requirements
In R6A districts for "zoning lots" of 10,000 SF or less, the number of required "accessory" off-street parking spaces is: 50% of the total "dwelling units"
(no. of d.u.s)x(percentage of req. parking)=(no. of spaces req.)
9 d.u.s x 0.50 = 4.5 parking spaces.

25-261 Waiver of Requirements for Small Number of Spaces
In R6A districts for "zoning lots" of 10,000 SF or less, the number of required "accessory" off-street parking spaces is: 50% of the total "dwelling units"
(no. of d.u.s)x(percentage of req. parking)=(no. of spaces req.)
0 parking spaces required.
No Proposed Parking spaces Therefore **OK**

25-811 Enclosed Bicycle Parking Spaces
In R6A districts for Use Group 2, the number of required bicycle parking spaces is: 50% of the total "dwelling units"
(no. of d.u.s)x(percentage of req. parking)=(no. of spaces req.)
Proposed 9 d.u.s x 0.50 = 4.5 parking spaces.
(a) Buildings containing 10 dwelling units or less shall waive bicycle parking spaces.
0 Parking spaces required.
0 Parking spaces proposed. Therefore **OK**

28-12 Street Tree Planting
Final location to be determined by Department of Parks and Recreation. New trees shall be planted, maintained and replaced, by Owner, when necessary, as per Quality Housing Program @ 25' o.c. & 3" caliper min.; with the approval of and in accordance with the standards of the Department of Parks and Recreation & D.O.T. (typ.) 1 street tree for every 25'-0" of street frontage of the lot shall be planted.
Street frontage: 25'-0"
Required number of trees: 25'-0" / 25 = 1 trees = 1 trees
Existing number of trees: 1 tree onsite Therefore **OK**

Exact location to be determined by Parks and Recreation. Contractor to contact NYC Parks and Recreation to obtain approval for location and species of trees to be planted on site.
The Contractor shall comply with §[C26-1902.5] 27-1030 Protection of trees.-No trees outside the street line shall be disturbed or removed without the permission of the commissioner of parks and recreation. Protection meeting the requirements of the department of parks and recreation shall be provided around the trunks of all such trees, and written notification shall also be made to the department of parks and recreation at least forty-eight hours prior to commencement of such work. No deleterious, caustic, or acid materials shall be dumped or mixed within ten feet of any such tree, nor shall salt for the removal of ice or snow be applied when runoff will drain to a tree.

Quality Housing Program

23-933 Iclusionary housing designated areas
This Project does not propose any afforadable housing units.

123-662 TABLE B (CONTEXTUAL) R6A - the height & setback regulations of Sections 23-60 & 43-40 shall not apply. In lieu thereof, subject building shall comply with the height and setback regulations of this Section.
(B)(1) In R6A District a setback of 15'-0" on a narrow street is required.
Proposed setback = 15'-0 1/2" = 15'-0" Therefore **OK**

DISTRICT R6A		
MIN REQUIRED BASE HEIGHT:	40'-0"	
MAX. PERMITTED BASE HEIGHT:	60'-0"	
MAX. PERMITTED BUILDING HEIGHT:	70'-0"	
PROPOSED BASE HEIGHT:	58'-8" = 60'-0"	OK
PROPOSED BUILDING HEIGHT:	66'-8" = 70'-0"	OK
NARROW STREET SETBACK	15'-0"	
PROPOSED SETBACK	15'-0 1/2" = 15'-0"	OK

28-21 Size of Dwelling Units:
A dwelling unit shall have an area of at least 400 square feet of floor area.
Proposed smallest dwelling unit = 469 S.F > 400 S.F Therefore **OK**

28-22 windows
All windows in the residential portion of a development or enlargement shall be double glazed.

28-23 Refuse Storage and Disposal
A refuse disposal room of not less than twelve square feet with no dimension less than three feet shall be provided on each story that has entrances to dwelling units or rooming units. Twelve square feet of such refuse storage room shall be excluded from the definition of floor area.
Proposed Refuse disposal room = 17.47 S.F > 12 S.F. Therefore **OK**
Proposed dimension of refuse room = 3'-0" > 3'-0" Therefore **OK**

28-25 Daylight In Corridors
50% of the square footage of a corridor may be excluded from the definition of floor area if a window with a clear, non-tinted, glazed area of at least 20 square feet is provided in such corridor, provided that such window:
a) Shall be directly visible from 50% of the corridor or from the vertical circulation core. This standard shall be achieved when a visually unobstructed straight line can be drawn between such corridor, elevator or stairwell, and the window, and
b) is located at least 20 feet from a wall or a side or rear lot line measured in a horizontal plane and perpendicular to the rough window opening.
Proposed: A double glazed glass entry door type D1 shall be supplied at entrance for a total of 21 SF, which is visible as required from the necessary locations. Therefore **OK**

28-31 Required Recreation Space
In District R6A the Minimum Required Recreation Space (as a percentage of the residential floor area) is 3.3 % of 6,644 SF = 219.25 SF, as per 28-32 (b) min of 300 sq.ft.
Proposed Recreation Space 1st Floor = 606.05 > 300 sq.ft. Therefore **OK**

28-32 Standards for Recreation Space
(a) All recreation space shall be accessible to residents of the building.
(b) The minimum dimension of any recreation space shall be 15 feet, and the minimum space for any indoor recreation space shall be 300 S.F.
Proposed Recreation Space 1st Floor = 606.05 SF >300 S.F. Therefore **OK**
(d) Indoor recreation room shall have at least one window that measures not less than 9.5 percent of the total space of the room. 9.5% of 564.04 = 53.58 S.F. Proposed 92 S.F > 53.58 Therefore **OK**

28-41 Density Per Corridor:
In R6A Districts, the total number of "dwelling units" permitted in order to subtract 50 % of the SF of the corridors: 11
Proposed number of DU's: 2 per corridor <11 Therefore **OK** (See Z-101)

General Notes:
1. The height of all public corridors shall be 8'-0" min. (typ.)
2. Building is in compliance with Seismic Code under LL 17/95 bY providing 2" seismic gap separation.
See plans for further information.

Exterior Non-Bearing wall assembly -type 6 (2hr rated, ul design u425):
6" Metal Studs @ 16" o.c., 4" sound attenuation blanket, (2) layers 5/8" gypsum board inside, 5/8" gypsum board and 5/8" densgold board outside, 1" 3-coat cementicious stucco.

Stairs & Elevator Enclosure - (2hr rated, ul design U404):
3 1/2" metal studs @ 16" o.c., 4" sound attenuation blanket, (2) layers 5/8" gypsum board inside and outside (STAIRS)
8" cast in place concrete (ELEVATOR)

Typical Floor Assembly (2hr fire rated):
10" cast in place concrete

Typical Roof Assembly (1hr fire rated):
10" cast in place concrete w/ concrete sloped to drains, liquid applied waterproof membrane, 6" extruded polystyrene insulation.

TABLE 503 — ALLOWABLE HEIGHT AND BUILDING AREAS (reproduced table; cell values illegible)

TABLE 508.3.3 FIRE SEPARATION
FOR R-2 = 2 HOUR SEPARATION

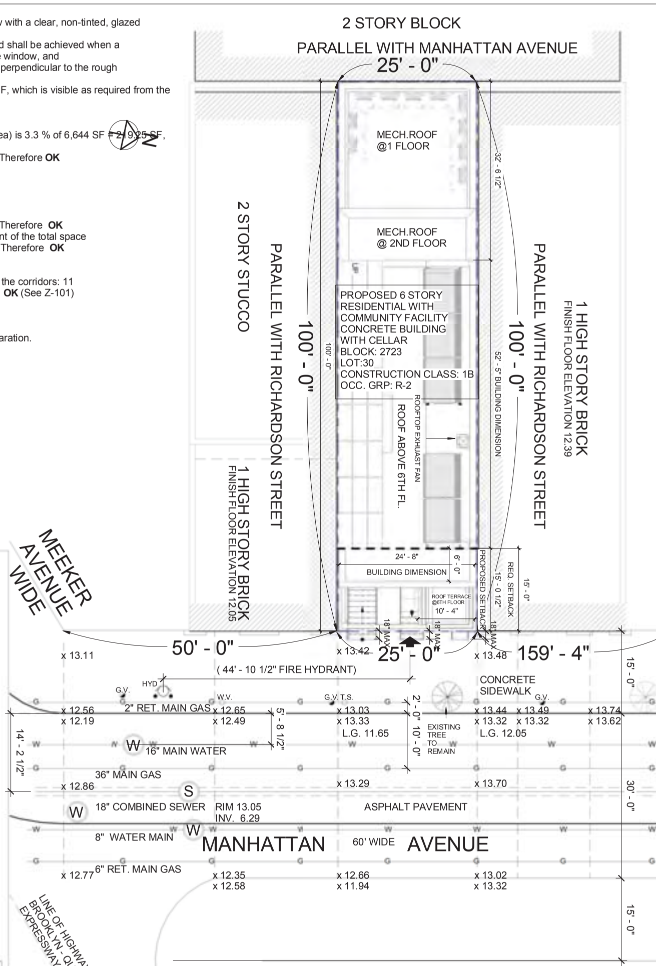
TABLE 508.3.3 — INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (reproduced table; cell values illegible)

TABLE 715.3 — FIRE DOOR AND FIRE SHUTTER FIRE PROTECTION RATINGS (reproduced table; cell values illegible)

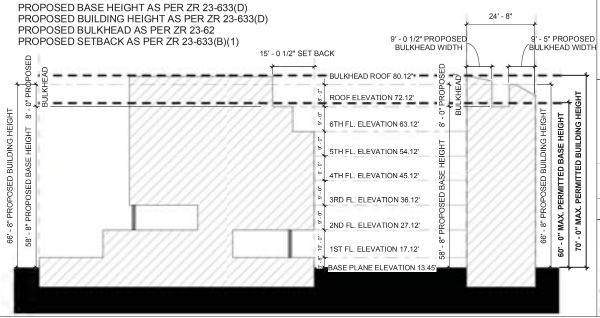
CLASS A = 3 HR.
CLASS B = 1.5 HR.
CLASS C = 3/4 HR.

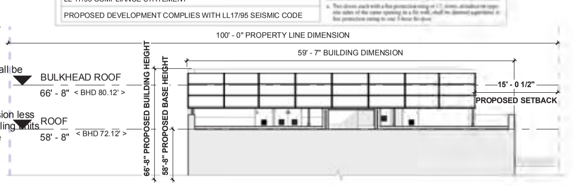
ECCNY COMPLIANCE STATEMENT
"TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CODE OF NEW YORK STATE, USING CHAPTER 5

LL 17/95 COMPLIANCE STATEMENT
PROPOSED DEVELOPMENT COMPLIES WITH LL17/95 SEISMIC CODE



SECTION DIAGRAM
SCALE 1' - 0" = 1/16"
PROPOSED BASE HEIGHT AS PER ZR 23-633(D)
PROPOSED BUILDING HEIGHT AS PER ZR 23-633(D)
PROPOSED BULKHEAD AS PER ZR 23-62
PROPOSED SETBACK AS PER ZR 23-633(B)(1)





2 BULKHEAD CALCULATION-SOUTH ELEVATIONS

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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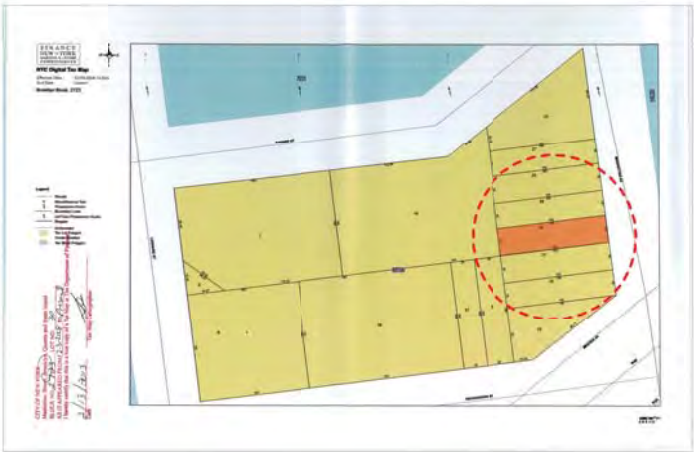
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

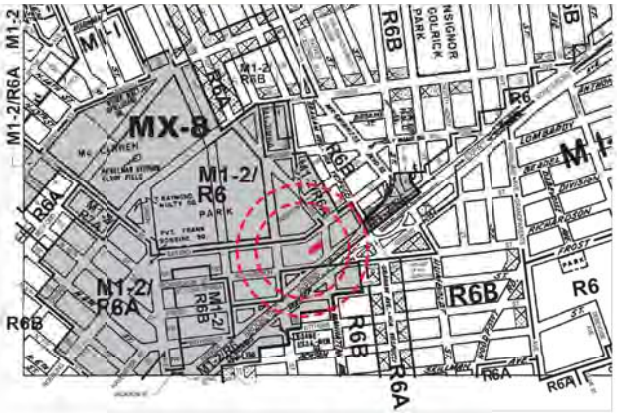
Title:
ZONING ANALYSIS

DWG #
Z-001.00

Date: 05/17/12
Scale: As indicated
Drawn: Designer
Job # 32157
Checked: Checker



① TAX MAP
1/4" = 1'-0"



② ZONING MAP
3/8" = 1'-0"

④ FINAL FLOOD ZONING MAP
3/4" = 1'-0"

⑤ PRELIMINARY FLOOD ZONING MAP
3/4" = 1'-0"

The premises are currently located in an Zone X per effective FIRM. The applicant has been advised by the DOB and acknowledges that the premises are now located in an Zone X per FEMA Advisory Flood Maps released in 2013.

TR-8 ENERGY CODE INSPECTIONS:

1. PROTECTION OF FOUNDATION INSULATION - (IA1)(IIA1)
2. INSULATION PLACEMENT AND R VALUES - (IA2) (IIA2)
3. FENESTRATION THERMAL VALUES AND RATINGS - (IA3), (IIA3)
4. FENESTRATION RATING FOR AIR LEAKAGE - (IA4)(IIA4)
5. AIR SEALING AND INSULATION (VISUAL) - (IA6), (IIA6)
6. VESTIBULES (IIA9)
7. DUCT PLENUM AND PIPING INSULATION AND SEALING - (IB4)(IIB4)
8. LIGHTING IN DWELLING UNITS - (IC2)(IIC2)
9. INTERIOR LIGHTING POWER - (IIC3)
10. EXTERIOR LIGHTIN POWER - (IIC4)
11. EXIT SIGNS - (IIC6)

CONTROLLED INSPECTIONS (TR-1):

- CONCRETE - CAST-IN-PLACE BC 1704.4
- CONCRETE TEST CYLINDERS* TR2 BC 1905.6
- CONCRETE DESIGN MIX* TR3 BC 1905.3
- SOILS - INVESTIGATIONS (BORINGS/TEST PITS) TR4 BC 1704.7.4
- UNDERPINNING BC 1704.9.1
- WALL PANELS, CURTAIN WALLS, AND VENEERS BC 1704.1
- MECHANICAL SYSTEMS BC 1704.15
- STRUCTURAL SAFETY - STRUCTURAL STABILITY BC 1704.19
- EXCAVATION - SHEETING, SHORING, AND BRACING BC 1704.19, BC 3304.4.1
- SITE STORM DRAINAGE DISPOSAL AND DETENTION S-M INSTALL BC 1704.20
- SPRINKLER SYSTEMS BC 1704.21
- HEATING SYSTEMS BC 1704.23
- FIRESTOP, DRAFTSTOP, AND FIREBLOCK SYSTEMS BC 1704.25
- PRELIMINARY 28-116.2.1, BC 109.2
- FOOTING AND FOUNDATION BC 109.3.1
- ENERGY CODE COMPLIANCE INSPECTIONS BC 109.3.5
- FIRE-RESISTIVE RATED CONSTRUCTION BC 109.3.1

LEGEND

PLAN	2 HR FIRE PARTITION
CM SD T PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
A.D PLAN	AREA DRAIN
H.W.H PLAN	HOT WATER HEATER

Revision No.	Date	Remarks

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Project
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

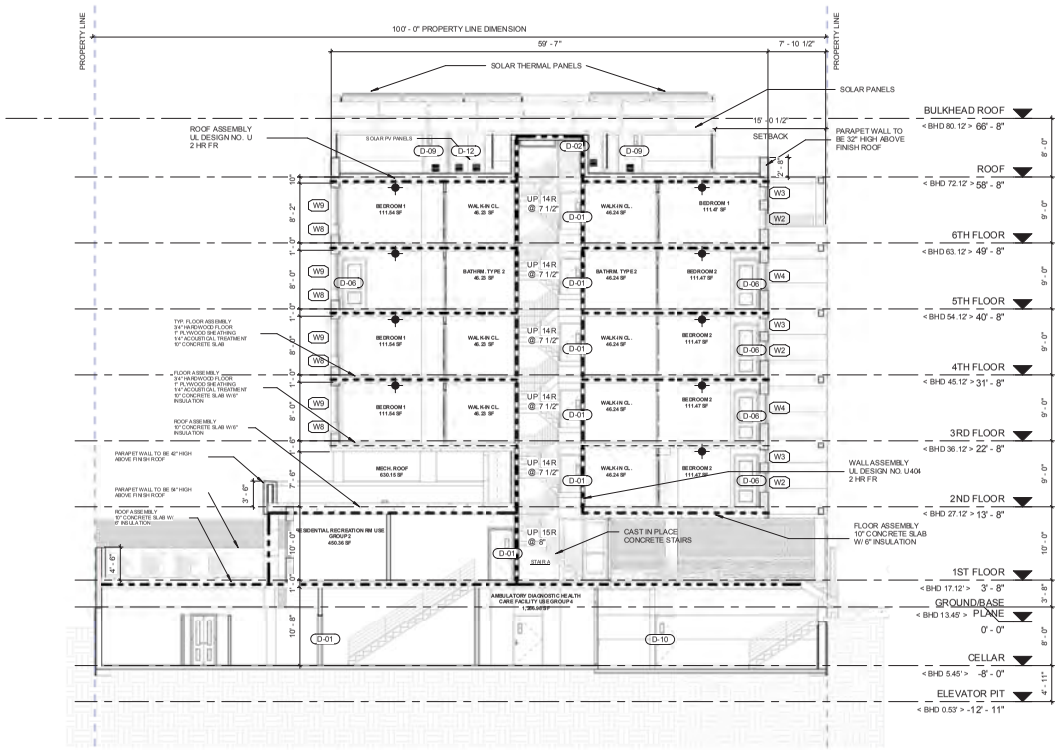
Title
MAPPING & CODE COMPLIANCE

DWG #
Z-002.00

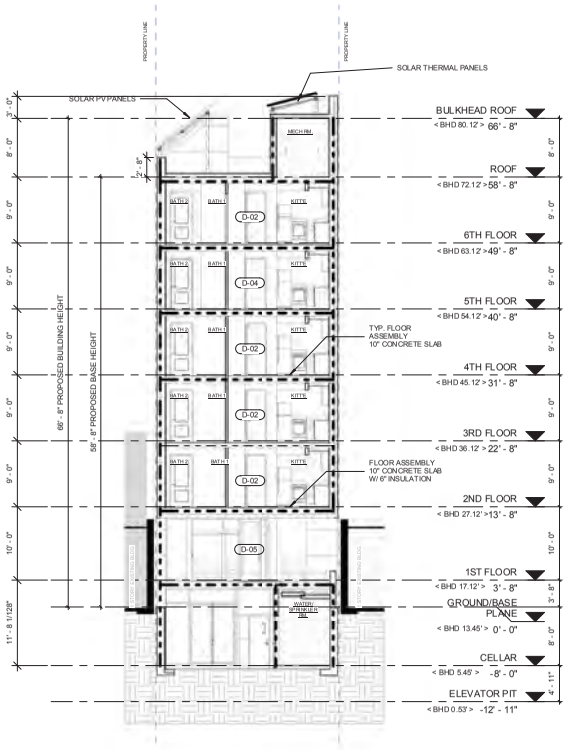
Signature

Seal

Date	06/25/13
Scale	As indicated
Drawn	Designer
Job #	32157
Checked	Checker



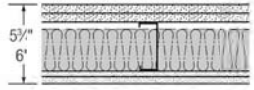
1 SECTION BLDG. CODE TABLE 3-4
1/8" = 1'-0"



2 SECTION BLDG. CODE TABLE 3-4
1/8" = 1'-0"

UL WALL DESIGNS

Fire Rated System Design - UL U404



CAD RVIT

UL U404

Exterior Wall: Steel Stud (Loadbearing)

Fire Rating	2 hour
System Thickness	5-7/4"

Detailed Description | Quick Description

Gypsum Board - Two layers of 5/1 in. thick gypsum board applied vertically or horizontally:

- SECURROCK Brand Glass-Mat Sheathing FREDDIE Core - 5/8"
- SHEETROCK Brand FIRECODE Core Gypsum Sheathing (Type X) - 5/8"
- FIBERROCK Aqua-Tough™ Tile Backerboard Panels
- FIBERROCK Brand Aqua-Tough™ Fiberglass Panels
- FIBERROCK Brand Abuse-Resistant Interior Panels
- FIBERROCK Brand Abuse-Resistant Interior Panels - 1/2"

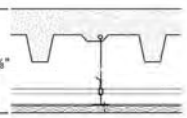
Steel Studs - 3-1/2 in. wide, fabricated from min 20 gauge galv. steel spacer @ max 16 in. OC

Batts and Blankets - Min. 3 in. thick mineral wool insulation batts

Cement Board - Two layers of 1/2or 5/8 in. thick board, applied vertically or horizontally

- DURGO Brand Interior Board Non-Set

Fire Rated System Design - UL D501



CAD RVIT

UL D501

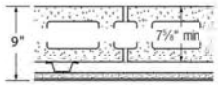
Concrete

Fire Rating	STC / Sound Test	System Thickness
2 hour	N/A	10-1/8"

Assembly Description

- min. 2" thick concrete
- composite 5", 4-1/2", 6", or 7-1/2" deep, 12" wide, (min/max/min spacing) fluted units
- min. W8x17 beams
- UBS D/G Drywall Suspension System
- 5/8" Multicore® Brand Firecode® C Core Gypsum Panel
- see UL website for beam fire protection

Fire Rated System Design - UL U914



CAD RVIT

UL U914

Framed Masonry (CMU)

Fire Rating	STC / Sound Test	System Thickness
3 hour	N/A	9"

Detailed Assembly Description | Quick Assembly Description

Concrete Block - Min. 7 5/1in. depth concrete blocks with UL Classification mark 2-2 (2 hr)

Gypsum Board - 1/2 in. thk, 4 ft. wide board attached one side to resilient or furring channels

- SHEETROCK Brand FIRECODE® C Core Gypsum Panel - 5/8"
- SHEETROCK Brand Abuse-Resistant FIRECODE® C Core Gypsum Panels
- SHEETROCK Brand FIRECODE Core Type X
- SHEETROCK Brand FIRECODE C Core Gypsum Panel - 1/2"
- SHEETROCK Brand Abuse-Resistant FIRECODE® C Core Gypsum Panels
- IMPERIAL Brand Gypsum Lime FIRECODE C Core - 1/2"

Furring Channels - 7/8 in. exp min 25 gauge galv steel furring channel, 1-3/8 in. ride on top and 2-3/4 in. wide at bottom @ 24 in. o.c. Channel perpendicular to floor with a channel parallel to ed approximately 3 in. above floor and 3 in. below ceiling. Clearance between vertical and horizontal channels /2 in.

Revision No.	Date	Remarks

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DOB APPLICATION NO
320593041

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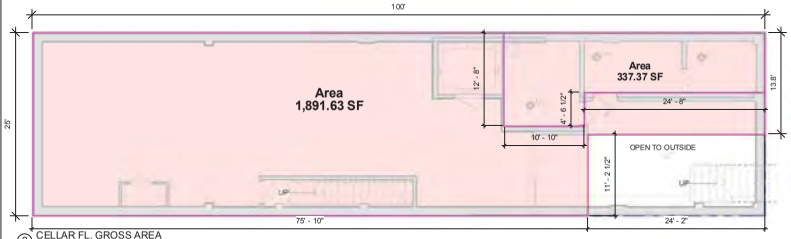
Project
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

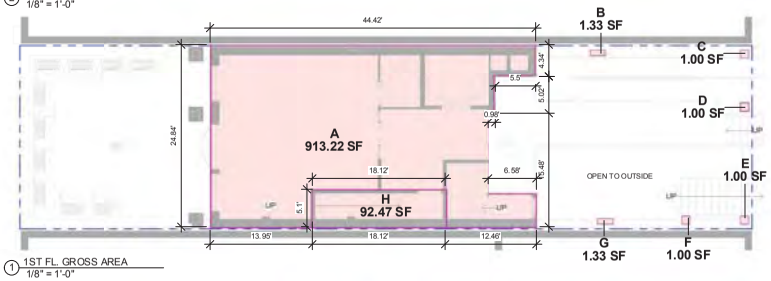
Title:
SECTION BLDG. CODE

DWG #
Z-003.00

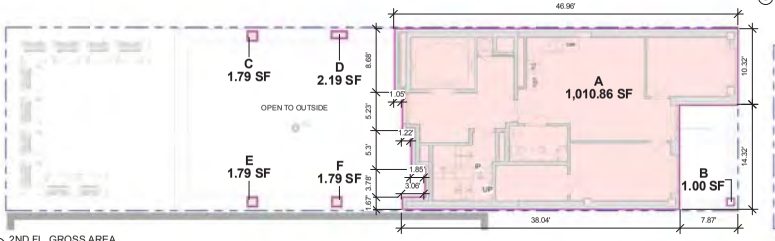
Signature	Date: 10/01/14
Seal: LICENSED ARCHITECT STATE OF NEW YORK	Scale: As indicated
	Drawn: Designer
	Job # 32157
	Checked: Checker



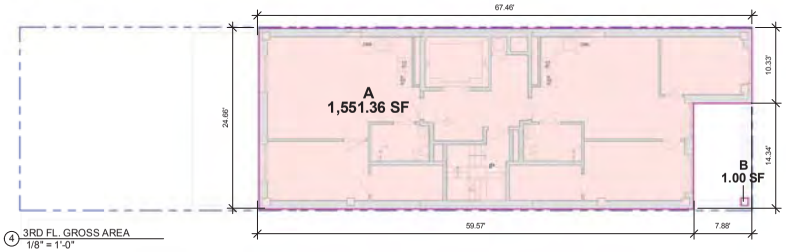
2 CELLAR FL. GROSS AREA
1/8" = 1'-0"



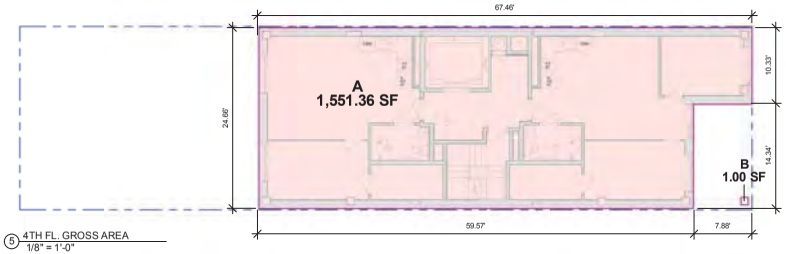
1 1ST FL. GROSS AREA
1/8" = 1'-0"



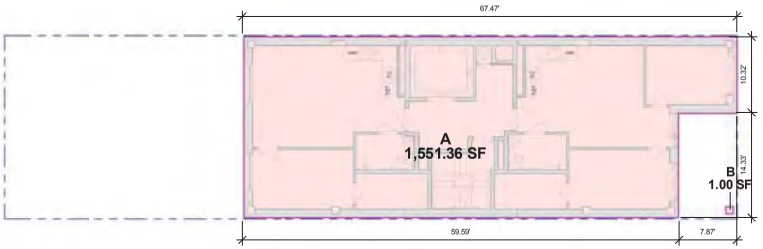
3 2ND FL. GROSS AREA
1/8" = 1'-0"



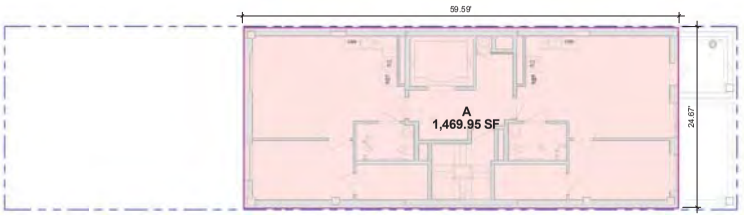
4 3RD FL. GROSS AREA
1/8" = 1'-0"



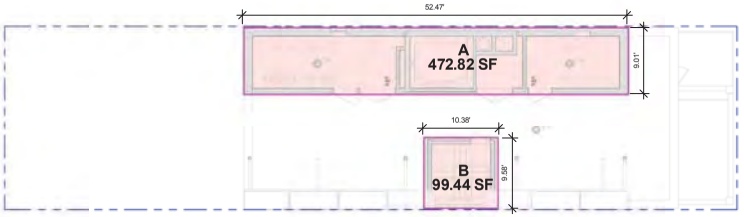
5 4TH FL. GROSS AREA
1/8" = 1'-0"



7 5TH FL. GROSS AREA
1/8" = 1'-0"



8 6TH FL. GROSS AREA
1/8" = 1'-0"



9 ROFF GROSS AREA
1/8" = 1'-0"

Area Schedule (Gross Building)	
Name	Area
CELLAR	
Area	1,891.63 SF
Area	337.37 SF
2	2,229.01 SF
1ST FLOOR	
A	913.22 SF
B	1.33 SF
C	1.00 SF
D	1.00 SF
E	1.00 SF
F	1.00 SF
G	1.33 SF
H	92.47 SF
8	1,012.35 SF
2ND FLOOR	
A	1,010.86 SF
B	1.00 SF
C	1.79 SF
D	2.19 SF
E	1.79 SF
F	1.79 SF
6	1,019.43 SF
3RD FLOOR	
A	1,551.36 SF
B	1.00 SF
2	1,552.36 SF
4TH FLOOR	
A	1,551.36 SF
B	1.00 SF
2	1,552.36 SF
5TH FLOOR	
A	1,551.36 SF
B	1.00 SF
2	1,552.36 SF
6TH FLOOR	
A	1,469.95 SF
1	1,469.95 SF
ROOF	
A	472.82 SF
B	99.44 SF
2	572.25 SF
Grand total	10,960.07 SF

Revision No.	Date	Remarks

N

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DOB APPLICATION NO
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

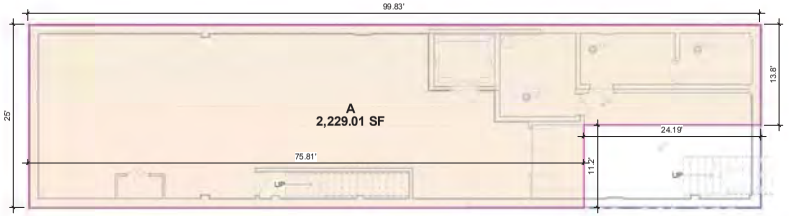
Title:
ZONING GROSS AREA COMPUTATION

DWG #
Z-004.00

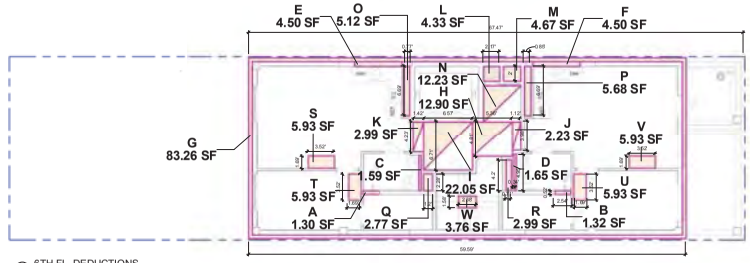
Signature

Seal: REGISTERED ARCHITECT STATE OF NEW YORK

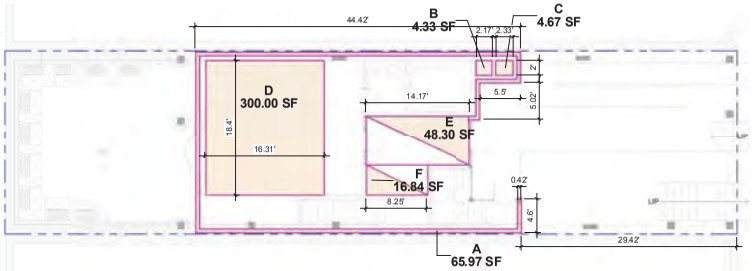
Date	04/26/13
Scale	1/8" = 1'-0"
Drawn	Designer
Job #	32157
Checked	Checker



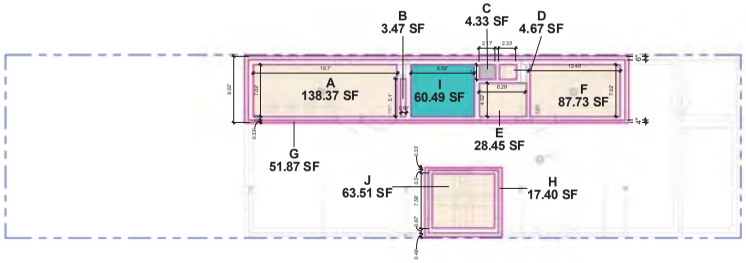
② CELLAR FL. DEDUCTIONS
1/8" = 1'-0"



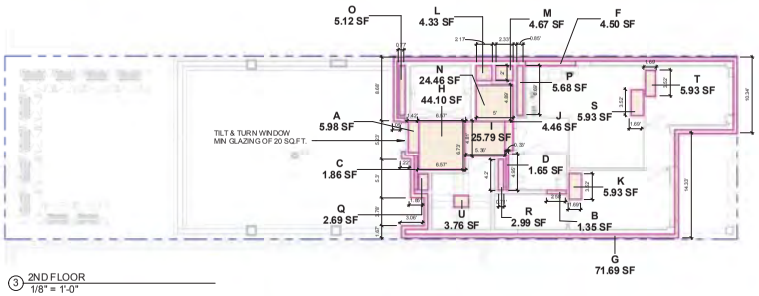
⑧ 6TH FL. DEDUCTIONS
1/8" = 1'-0"



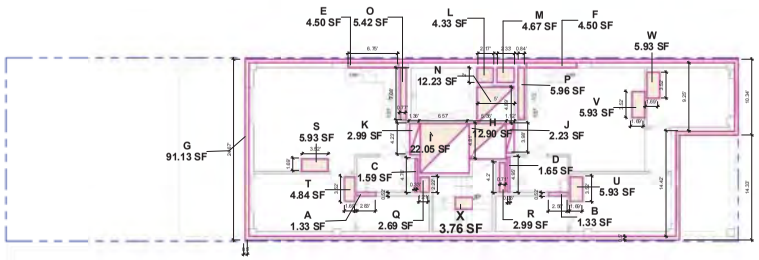
① 1ST FL. DEDUCTIONS
1/8" = 1'-0"



⑨ ROOF FL. DEDUCTIONS
1/8" = 1'-0"



③ 2ND FLOOR
1/8" = 1'-0"



④ 3RD, 4TH & 5TH FLOORS
1/8" = 1'-0"

Area Schedule (Deduction)			
Name	Deduction Type	Area	Reason
CELLAR			
A	CELLAR	2,229.01 SF	12-10 (1)
1		2,229.01 SF	
1ST FLOOR			
A	EXTERIOR WALL	65.97 SF	(12-10) (12)
B	MECH SHAFT	4.33 SF	Open To Below
C	MECH SHAFT	4.67 SF	Open To Below
D	RES. RECREATION RM.	300.00 SF	28-31
E	HALLWAY	48.30 SF	Density ZR 28-41
F	HALLWAY	16.84 SF	Density ZR 28-41
6		440.11 SF	
2ND FLOOR			
A	HALLWAY	5.98 SF	Density ZR 28-41
B	CHASE WALL	1.35 SF	(12-10) (8)
C	CHASE WALL	1.86 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	SIPS PANEL	71.69 SF	(12-10) (12)
H	HALLWAY	44.10 SF	Density ZR 28-41
I	HALLWAY	25.79 SF	Density ZR 28-41
J	HALLWAY	4.46 SF	Density ZR 28-41
K	MECH. FAN COIL	5.93 SF	
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	24.46 SF	28-23
O	SHAFT	5.12 SF	Open To Below
P	SHAFT	5.68 SF	Open To Below
Q	SHAFT	2.69 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	5.93 SF	
U	OPEN TO BELOW	3.76 SF	Open To Below
20		232.90 SF	
3RD FLOOR			
A	CHASE WALL	1.33 SF	(12-10) (8)
B	CHASE WALL	1.33 SF	(12-10) (8)
C	CHASE WALL	1.59 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
E	CHASE WALL	4.50 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	EXTERIOR WALL	91.13 SF	(12-10)(12)
H	HALLWAY	12.90 SF	Density ZR 28-41
I	HALLWAY	22.05 SF	Density ZR 28-41
J	HALLWAY	2.23 SF	Density ZR 28-41
K	HALLWAY	2.99 SF	Density ZR 28-41
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	12.23 SF	28-23

Area Schedule (Deduction)			
Name	Deduction Type	Area	Reason
O	SHAFT	5.42 SF	Open To Below
P	SHAFT	5.96 SF	Open To Below
Q	SHAFT	2.69 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	4.84 SF	
U	MECH. FAN COIL	5.93 SF	
V	MECH. FAN COIL	5.93 SF	
W	MECH. FAN COIL	5.93 SF	
X	OPEN TO BELOW	3.76 SF	Open To Below
24		216.84 SF	
4TH FLOOR			
A	CHASE WALL	1.33 SF	(12-10) (8)
B	CHASE WALL	1.33 SF	(12-10) (8)
C	CHASE WALL	1.59 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
E	CHASE WALL	4.50 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	EXTERIOR WALL	91.13 SF	(12-10)(12)
H	HALLWAY	12.90 SF	Density ZR 28-41
I	HALLWAY	22.05 SF	Density ZR 28-41
J	HALLWAY	2.23 SF	Density ZR 28-41
K	HALLWAY	2.99 SF	Density ZR 28-41
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	12.23 SF	28-23
O	SHAFT	5.42 SF	Open To Below
P	SHAFT	5.96 SF	Open To Below
Q	SHAFT	2.69 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	4.84 SF	
U	MECH. FAN COIL	5.93 SF	
V	MECH. FAN COIL	5.93 SF	
W	MECH. FAN COIL	5.93 SF	
X	OPEN TO BELOW	3.76 SF	Open To Below
24		216.84 SF	
5TH FLOOR			
A	CHASE WALL	1.33 SF	(12-10) (8)
B	CHASE WALL	1.33 SF	(12-10) (8)
C	CHASE WALL	1.59 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
E	CHASE WALL	4.50 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	SIPS PANEL	91.13 SF	(12-10) (12)
H	HALLWAY	12.90 SF	Density ZR 28-41
I	HALLWAY	22.05 SF	Density ZR 28-41
J	HALLWAY	2.23 SF	Density ZR 28-41
K	HALLWAY	2.99 SF	Density ZR 28-41

Area Schedule (Deduction)			
Name	Deduction Type	Area	Reason
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	12.23 SF	28-23
O	SHAFT	5.42 SF	Open To Below
P	SHAFT	5.96 SF	Open To Below
Q	SHAFT	2.69 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	4.84 SF	
U	MECH. FAN COIL	5.93 SF	
V	MECH. FAN COIL	5.93 SF	
W	MECH. FAN COIL	5.93 SF	
X	OPEN TO BELOW	3.76 SF	Open To Below
24		216.84 SF	
6TH FLOOR			
A	CHASE WALL	1.30 SF	(12-10) (8)
B	CHASE WALL	1.32 SF	(12-10) (8)
C	CHASE WALL	1.59 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
E	CHASE WALL	4.50 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	EXTERIOR WALL	83.26 SF	(12-10)(12)
H	HALLWAY	12.90 SF	Density ZR 28-41
I	HALLWAY	22.05 SF	Density ZR 28-41
J	HALLWAY	2.23 SF	Density ZR 28-41
K	HALLWAY	2.99 SF	Density ZR 28-41
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	12.23 SF	28-23
O	SHAFT	5.12 SF	Open To Below
P	SHAFT	5.68 SF	Open To Below
Q	SHAFT	2.77 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	5.93 SF	
U	MECH. FAN COIL	5.93 SF	
V	MECH. FAN COIL	5.93 SF	
W	OPEN TO BELOW	3.76 SF	Open To Below
23		203.57 SF	
ROOF			
A	MECH RM	138.37 SF	28-23
B	SHAFT WALL	3.47 SF	Open To Below
C	TRASH CHUTE	4.33 SF	Open To Below
D	MECH RM	4.67 SF	Open To Below
E	MECH RM	28.45 SF	28-23
F	MECH SHAFT	87.73 SF	28-23
G	SIPS PANEL	51.87 SF	(12-10) (2)
H	SIPS PANEL	17.40 SF	(12-10) (2)
I	ELEV. HOISTWAY	60.49 SF	(12-10) (2)
J	BULKHEAD	63.51 SF	(12-10) (2)
10		460.28 SF	
Grand total: 132		4,216.37 SF	

Revision No.	Date	Remarks

N

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PH: (212) 393-9679

Mechanical Engineer:
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DOB APPLICATION NO
320593041

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Project
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING DEDUCTION AREA COMPUTATIONS

DWG #
Z-005.00

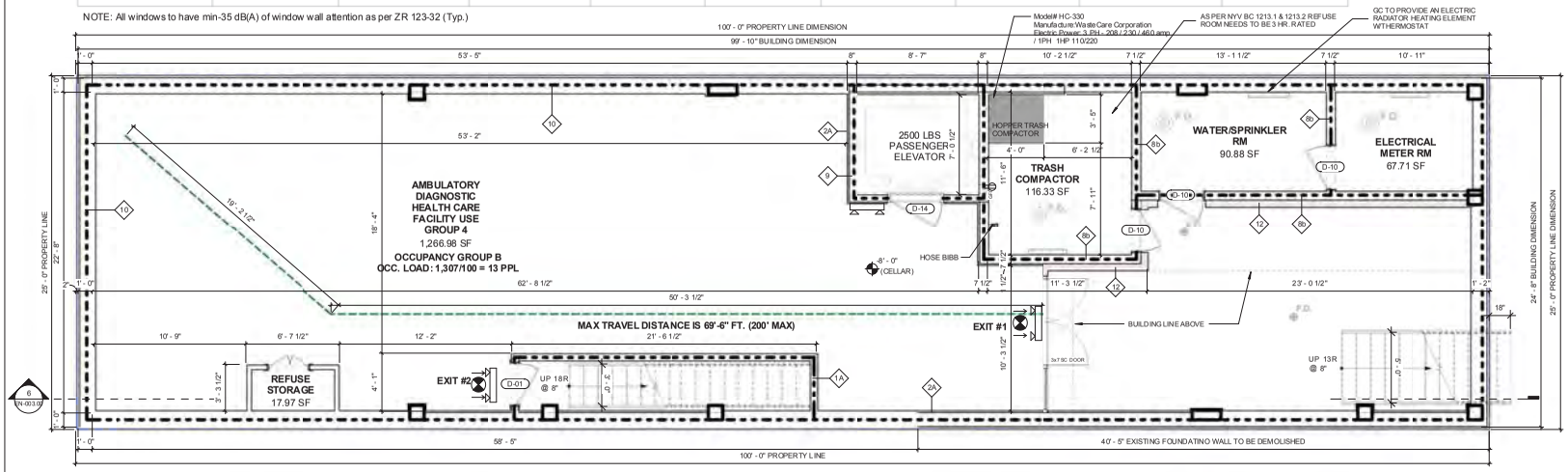
Signature
Seal
LICENSED ARCHITECT
STATE OF NEW YORK

Date: 04/26/13
Scale: 1/8" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

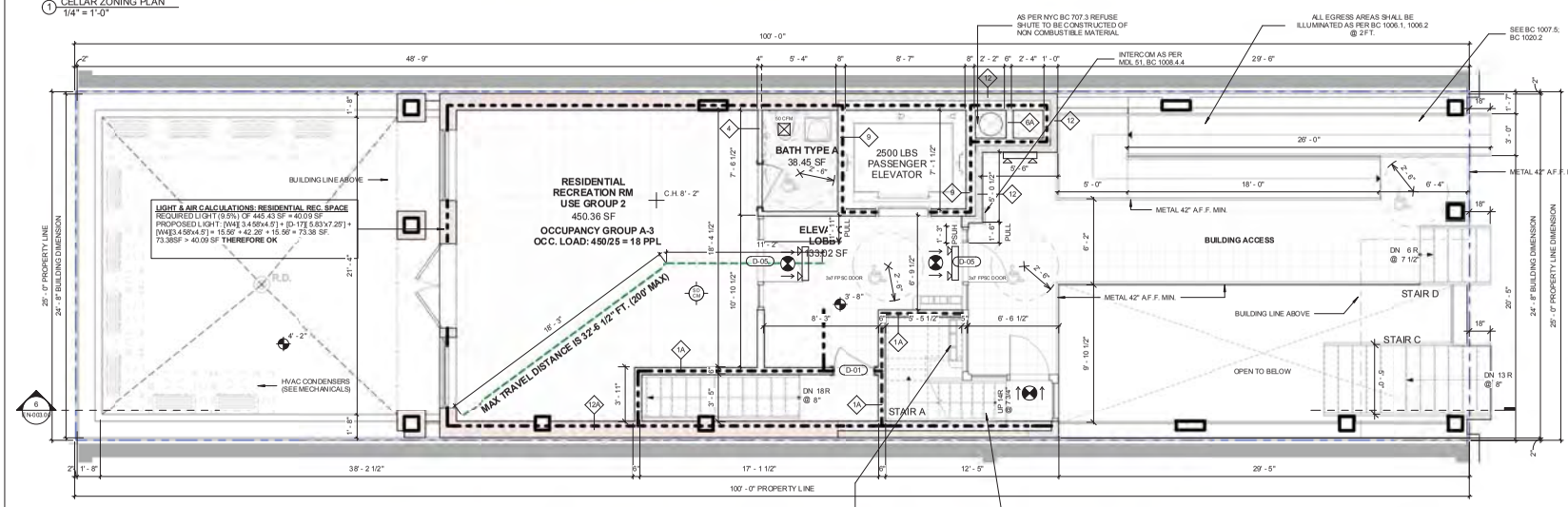
WINDOW SCHEDULE

W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
LIGHT = 7.68 SF	LIGHT = 8.47 SF	LIGHT = 5.96 SF	LIGHT = 15.76 SF	LIGHT = 12.47 SF	LIGHT = 6.04 SF	LIGHT = 5.44 SF	LIGHT = 0 SF	LIGHT = 20.70 SF	LIGHT = 22.48 SF
VENTILATION = 7.68 SF	VENTILATION = 8.47 SF	VENTILATION = 5.96 SF	VENTILATION = 15.76 SF	VENTILATION = 12.47 SF	VENTILATION = 6.04 SF	VENTILATION = 5.44 SF	VENTILATION = 0 SF	VENTILATION = 20.70 SF	

NOTE: All windows to have min-35 dB(A) of window wall attention as per ZR 123-32 (Typ.)



1 CELLAR ZONING PLAN
1/4" = 1'-0"



2 Z - 1st Floor
1/4" = 1'-0"

LEGEND

PLAN	2 HR FIRE PARTITION
PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
A.D PLAN	AREA DRAIN
H.W.H PLAN	HOT WATER HEATER

Revision No.	Date	Remarks

N

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DOB APPLICATION NO
320593041

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Project
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING & CODE COMPLIANCE CELLAR & 1ST FL. PLAN

DWG #
Z-006.00

Signature	Date: 06/25/13
Seal: REGISTERED ARCHITECT STATE OF NEW YORK	Scale: 1/4" = 1'-0"
	Drawn: Designer
	Job #: 32157
	Checked: Checker

WINDOW SCHEDULE

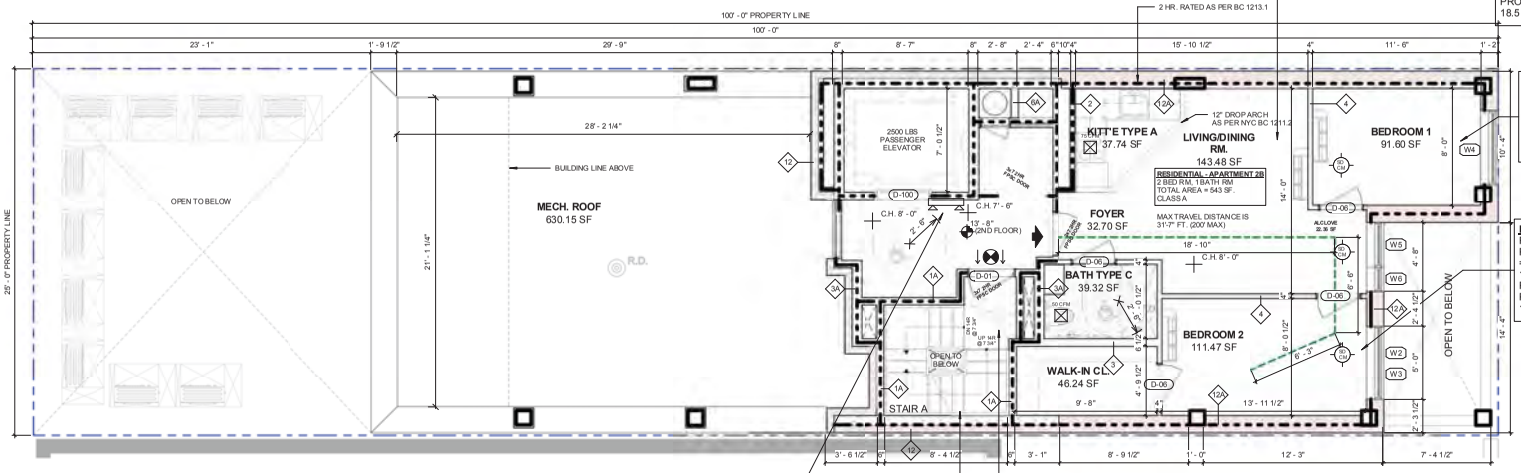
W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
LIGHT = 7.68 SF	LIGHT = 8.47 SF	LIGHT = 5.96 SF	LIGHT = 15.76 SF	LIGHT = 12.47 SF	LIGHT = 6.04 SF	LIGHT = 5.44 SF	LIGHT = 0 SF	LIGHT = 20.70 SF	LIGHT = 22.48 SF
VENTILATION = 7.68 SF	VENTILATION = 8.47 SF	VENTILATION = 5.96 SF	VENTILATION = 15.76 SF	VENTILATION = 12.47 SF	VENTILATION = 6.04 SF	VENTILATION = 5.44 SF	VENTILATION = 0 SF	VENTILATION = 20.70 SF	

FINISH FLOOR

NOTE: All windows to have min-35 dB(A) of window wall attention as per ZR 123-32 (Typ.)

LEGEND

PLAN	2 HR FIRE PARTITION	75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN	R.D PLAN	ROOF DRAIN
CM SD PLAN	SD/CO	50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN	A.D PLAN	AREA DRAIN
PLAN	LOT LINE SPR. HD	PLAN	EXIT SIGNS	H.W.H PLAN	HOT WATER HEATER
PLAN	DOOR #	PLAN	EMERGENCY LIGHTS		
PLAN	WINDOW #	F.D PLAN	FLOOR DRAIN		
PLAN	WALL TAG (A-605.00)				

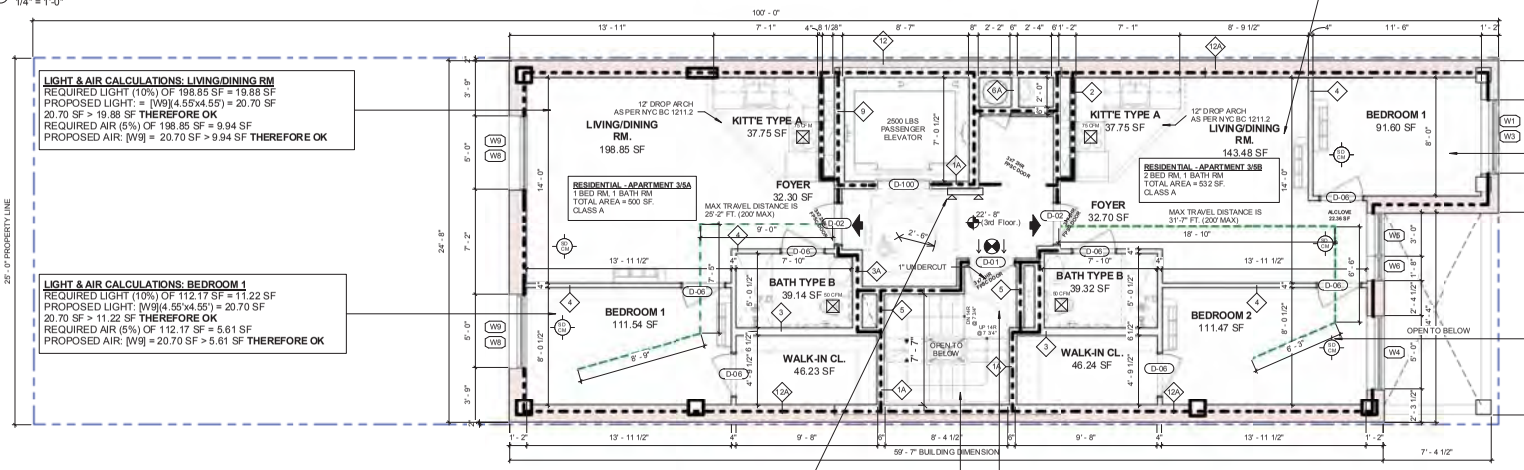


2 Z - 2ND FL.
1/4" = 1'-0"

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 143.48 SF = 14.35 SF
PROPOSED LIGHT: [W5](4.95'x2.52')+[W6](4.95'x1.22') = 18.51 SF
18.51 SF > 14.35 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 143.48 SF = 7.17 SF
PROPOSED AIR: [W5]+[W6] = 18.51 SF
18.51 SF > 7.17 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 91.60 SF = 9.16 SF
PROPOSED LIGHT: [W4](3.48'x4.53') = 15.76 SF
15.76 SF > 9.16 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 91.60 SF = 4.58 SF
PROPOSED AIR: [W4] = 15.76 SF
15.76 SF > 4.58 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 2
REQUIRED LIGHT (10%) OF 112.09 SF = 11.21 SF
PROPOSED LIGHT:[W2](1.87'x4.53')+[W3](1.31'x4.55') =14.43 SF
14.43 SF > 11.21 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.09 SF = 5.60 SF
PROPOSED AIR: [W2]+[W3] = 14.43 SF
14.43 > 5.60 SF **THEREFORE OK**



1 Z - 3RD & 5TH FL.
1/4" = 1'-0"

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 198.85 SF = 19.88 SF
PROPOSED LIGHT: = [W9](4.55'x4.55') = 20.70 SF
20.70 SF > 19.88 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 198.85 SF = 9.94 SF
PROPOSED AIR: [W9] = 20.70 SF > 9.94 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 112.17 SF = 11.22 SF
PROPOSED LIGHT: [W9](4.55'x4.55') = 20.70 SF
20.70 SF > 11.22 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.17 SF = 5.61 SF
PROPOSED AIR: [W9] = 20.70 SF > 5.61 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 143.48 SF = 14.35 SF
PROPOSED LIGHT: [W5](4.95'x2.52')+[W6](4.95'x1.22') = 18.51 SF
18.51 SF > 14.35 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 143.48 SF = 7.17 SF
PROPOSED AIR: [W5]+[W6] = 18.51 SF
18.51 SF > 7.17 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 91.60 SF = 9.16 SF
PROPOSED LIGHT:[W1](1.7'x4.52')+[W3](1.31'x4.55') = 13.64 SF
13.64 SF > 9.16 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 91.60 SF = 4.58 SF
PROPOSED AIR: [W1]+[W3] = 13.64 SF
13.64 SF > 4.58 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 2
REQUIRED LIGHT (10%) OF 112.09 SF = 11.21 SF
PROPOSED LIGHT:[W4](3.48'x4.53') = 15.76 SF
15.76 SF > 11.21 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.09 SF = 5.60 SF
PROPOSED AIR: [W4] = 15.76 SF
15.76 SF > 5.60 SF **THEREFORE OK**

Revision No.	Date	Remarks

N

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DOB APPLICATION NO
320593041

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Project
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING & CODE COMPLIANCE 2ND & 3RD/5TH FL. PLAN

DWG #
Z-007.00

Signature	Date: 06/25/13
Seal: LICENSED ARCHITECT STATE OF NEW YORK	Scale: 1/4" = 1'-0"
	Drawn: Designer
	Job #: 32157
	Checked: Checker

WINDOW SCHEDULE

W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
LIGHT = 7.68 SF	LIGHT = 8.47 SF	LIGHT = 5.96 SF	LIGHT = 15.76 SF	LIGHT = 12.47 SF	LIGHT = 6.04 SF	LIGHT = 5.44 SF	LIGHT = 0 SF	LIGHT = 20.70 SF	LIGHT = 22.48 SF
VENTILATION = 7.68 SF	VENTILATION = 8.47 SF	VENTILATION = 5.96 SF	VENTILATION = 15.76 SF	VENTILATION = 12.47 SF	VENTILATION = 6.04 SF	VENTILATION = 5.44 SF	VENTILATION = 0 SF	VENTILATION = 20.70 SF	

NOTE: All windows to have min-35 dB(A) of window wall attention as per ZR 123-32 (Typ.)

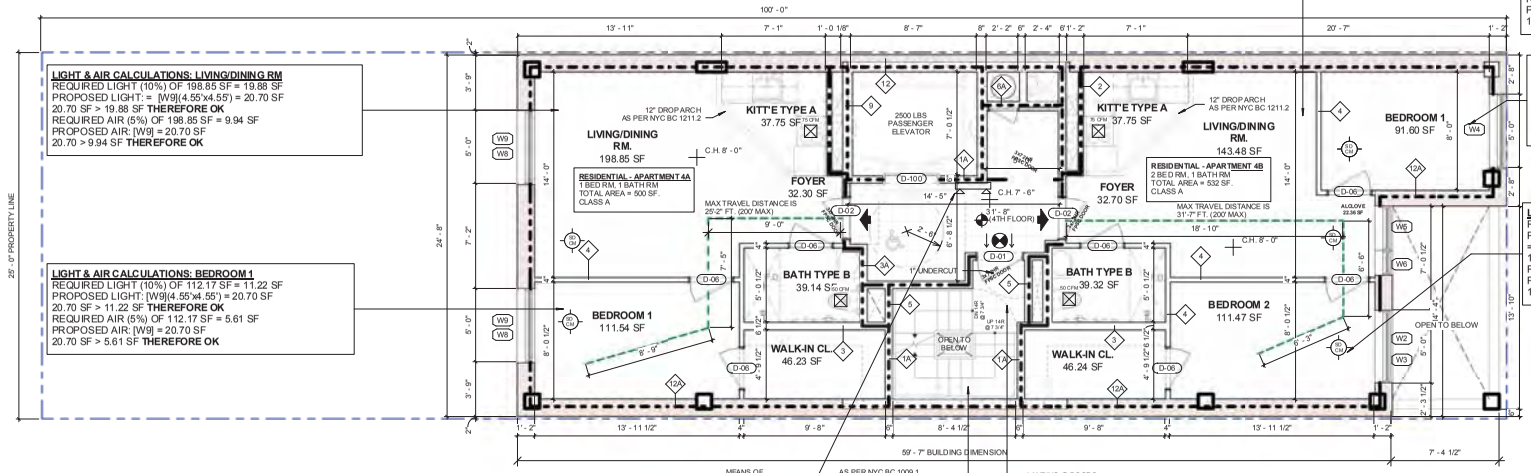
LEGEND

2 HR FIRE PARTITION	75 CFM	75 CFM BATHROOM EXHAUST FAN	R.D	ROOF DRAIN
SD/CO	50 CFM	50 CFM BATHROOM EXHAUST FAN	A.D	AREA DRAIN
LOT LINE SPR. HD		EXIT SIGNS	H.W.H	HOT WATER HEATER
DOOR #		EMERGENCY LIGHTS		
WINDOW #				
WALL TAG (A-605.00)	F.D	FLOOR DRAIN		

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 143.48 SF = 14.35 SF
PROPOSED LIGHT: [W5](4.95'x2.52')+[W6](4.95'x1.22') = 18.51 SF
18.51 SF > 14.35 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 143.48 SF = 7.17 SF
PROPOSED AIR: [W5]+[W6] = 18.51 SF
18.51 SF > 7.17 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 198.85 SF = 19.88 SF
PROPOSED LIGHT: = [W9](4.55'x4.55') = 20.70 SF
20.70 SF > 19.88 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 198.85 SF = 9.94 SF
PROPOSED AIR: [W9] = 20.70 SF
20.70 > 9.94 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 112.17 SF = 11.22 SF
PROPOSED LIGHT: [W9](4.55'x4.55') = 20.70 SF
20.70 SF > 11.22 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.17 SF = 5.61 SF
PROPOSED AIR: [W9] = 20.70 SF
20.70 SF > 5.61 SF **THEREFORE OK**

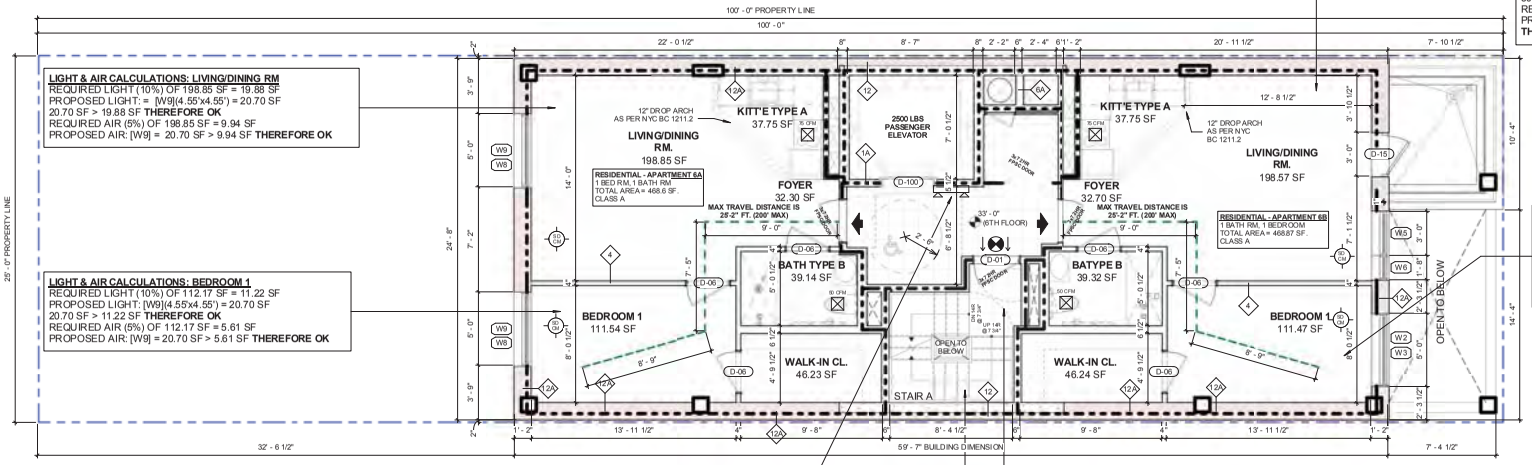


LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 91.60 SF = 9.16 SF
PROPOSED LIGHT: [W4](3.48'x4.53') = 15.76 SF
15.76 SF > 9.16 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 91.60 SF = 4.58 SF
PROPOSED AIR: [W4] = 15.76 SF
15.76 SF > 4.58 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 2
REQUIRED LIGHT (10%) OF 112.09 SF = 11.21 SF
PROPOSED LIGHT:[W2](1.87'x4.53')+[W3](1.31'x4.55') =14.43 SF
14.43 SF > 11.21 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.09 SF = 5.60 SF
PROPOSED AIR: [W2]+[W3] = 14.43 SF
14.43 SF > 5.60 SF **THEREFORE OK**

1 Z - 4TH FL. PLAN
1/4" = 1'-0"

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 198.57 SF = 19.86 SF
PROPOSED LIGHT: [W5](4.95'x2.52')+[W6](4.95'x1.22')+[D-15](6.00'x2.00') = SF
30.28 SF > 19.86 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 198.57 SF = 9.93 SF
PROPOSED AIR: [W5]+[W6]+[D-15] = 36.18 SF > 9.93 SF
THEREFORE OK



LIGHT & AIR CALCULATIONS: BEDROOM 2
REQUIRED LIGHT (10%) OF 112.09 SF = 11.21 SF
PROPOSED LIGHT:[W2](1.87'x4.53')+[W3](1.31'x4.55') =14.43 SF
14.43 SF > 11.21 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.09 SF = 5.60 SF
PROPOSED AIR: [W2]+[W3] = 14.43 SF
14.43 > 5.60 SF **THEREFORE OK**

2 Z - 6TH FL.
1/4" = 1'-0"

Revision No.	Date	Remarks

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DOB APPLICATION NO
320593041

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Project
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING & CODE COMPLIANCE 4TH & 6TH FL. PLAN

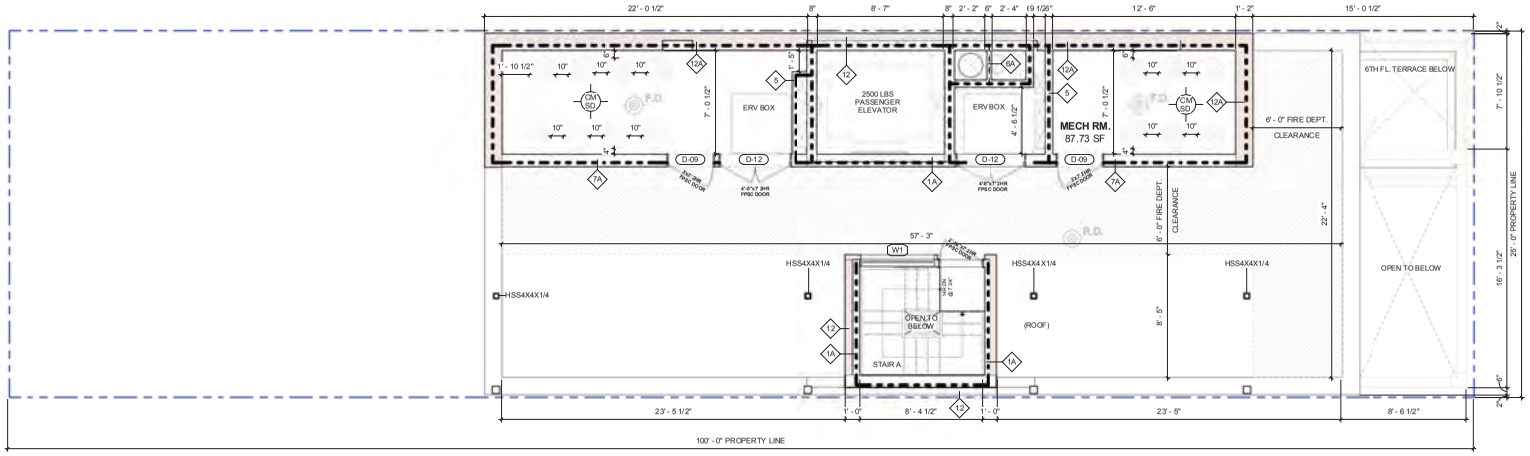
DWG #
Z-008.00

Signature	Date: 06/25/13
Seal	Scale: 1/4" = 1'-0"
	Drawn: Designer
	Job # 32157
	Checked: Checker

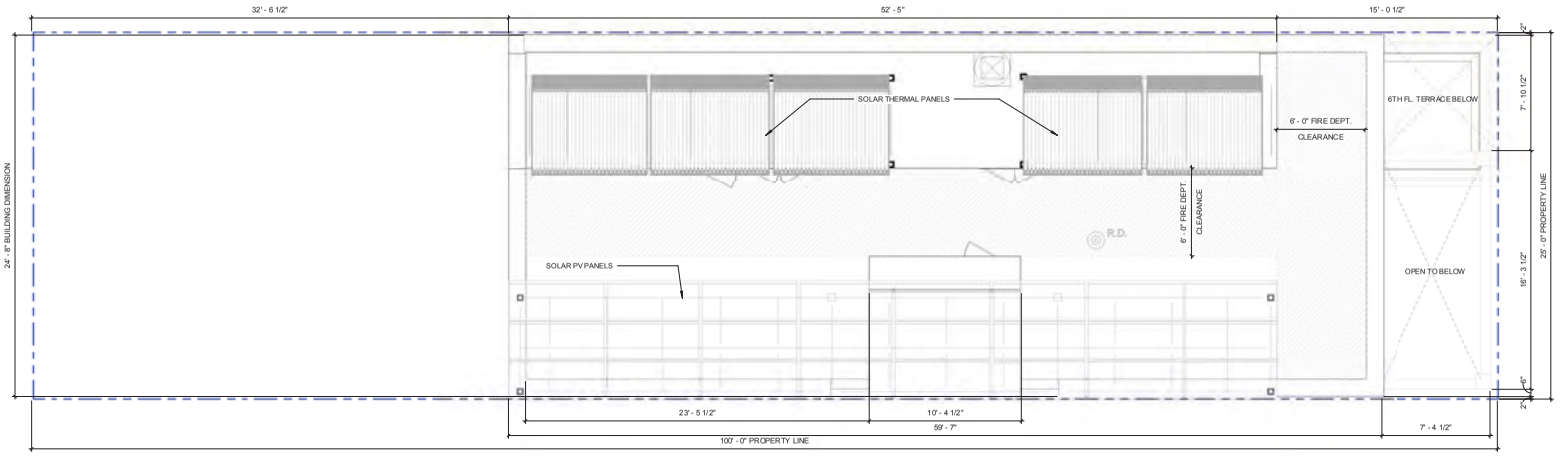
WINDOW SCHEDULE

W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
LIGHT = 7.68 SF	LIGHT = 8.47 SF	LIGHT = 5.96 SF	LIGHT = 15.76 SF	LIGHT = 12.47 SF	LIGHT = 6.04 SF	LIGHT = 5.44 SF	LIGHT = 0 SF	LIGHT = 20.70 SF	LIGHT = 22.48 SF
VENTILATION = 7.68 SF	VENTILATION = 8.47 SF	VENTILATION = 5.96 SF	VENTILATION = 15.76 SF	VENTILATION = 12.47 SF	VENTILATION = 6.04 SF	VENTILATION = 5.44 SF	VENTILATION = 0 SF	VENTILATION = 20.70 SF	

NOTE: All windows to have min-35 dB(A) of window wall attention as per ZR 123-32 (Typ.)



1 Z - Roof
1/4" = 1'-0"



2 Z - BULKHEAD
1/4" = 1'-0"

LEGEND

PLAN	2 HR FIRE PARTITION
PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
A.D PLAN	AREA DRAIN
H.W.H PLAN	HOT WATER HEATER

Revision No.	Date	Remarks

N

Project Manager/Designer:
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DOB APPLICATION NO
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING & CODE COMPLIANCE ROOF & BULKHEAD PLAN

DWG #
Z-009.00

Signature	Date: 07/08/13
Seal: LICENSED ARCHITECT STATE OF NEW YORK	Scale: 1/4" = 1'-0"
	Drawn: Designer
	Job #: 32157
	Checked: Checker

ENERGY CODE NOTES
This project is subject to regulations of ECC of New York State 2010.
101.4 Applicability
101.4.1 Existing buildings. Except as specified in this chapter, this code shall not be used to require the removal, *alteration* or abandonment of, nor prevent the continued use and maintenance of, an existing building or building system lawfully in existence at the time of adoption of this code.

101.4.3 Additions, alterations or renovations. It is intended that this code apply to additions, alterations, and renovations to existing residential building in all cases where the 2009 IECC would apply, and that this code shall apply to additions, alterations and renovations to existing commercial buildings in all cases where ASHRAE 90.1-2007 would apply. Additions, alterations or renovations to an existing building, building system or portion thereof shall conform to the provisions of this code as they relate to new construction without requiring the unaltered portion(s) of the existing building or building system to comply with this code. Additions, alterations or renovations shall not create an unsafe or hazardous condition or overload existing building systems. An addition shall be deemed to comply with this code if (1) the addition alone complies with this code, or (2) the existing building and addition considered as a single building comply with this code.

Exceptions: The following need not comply with the provisions of this code, provided the energy use of the building is not increased:
1. Storm windows installed over existing fenestration.
2. Glass only replacements in an existing sash and frame, provided the *U*-factor and the solar heat gain coefficient (SHGC) will be equal to or lower than before the glass replacement.
3. Alterations, renovations or repairs to roof/ceiling, wall or floor cavities which are insulated to full depth with insulation having a minimal nominal value of R-3.0/inch.
4. Alterations, renovations or repairs to walls and floors, where the existing structure is without framing cavities and no new framing cavities are created.
5. Reroofing where neither the sheathing nor the insulation is exposed. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.
6. Replacement of existing doors that separate *conditioned space* from the exterior shall not require the installation of a vestibule or revolving door, provided, however, that an existing vestibule that separates a *conditioned space* from the exterior shall not be removed.
7. An alteration that replaces less than 50 percent of the luminaires in a space, provided that such alteration does not increase the installed interior lighting power.
8. An alteration that replaces only the bulb and ballast within the existing luminaires in a space, provided that such *alteration* does not increase the installed interior lighting power.

101.5 Compliance. *Residential* buildings shall meet the provisions of Chapter 4. *Commercial* buildings shall meet the provisions of Chapter 5. Where a building includes both residential and commercial occupancies, each occupancy shall be separately considered and meet the applicable provisions of Chapter 4 for residential and Chapter 5 for commercial.

SECTION 103 CONSTRUCTION DOCUMENTS

103.2.1 Written statement.
To the best of his/her knowledge, belief and professional judgment, such plans or specifications are in compliance with this code.

SECTION 104 INSPECTIONS
104.1 General. Construction or work for which a permit is required shall be subject to inspection by the *code enforcement official*. Administration and enforcement of this code shall be in accordance with local law subject to the minimum requirements of Part 1203 of Title 19 (NYS Department of State Rules and Regulations).
104.3 Final inspection. The building shall have a final inspection and not be occupied until *approved*.
104.6 Inspection requests. It shall be the duty of the holder of the permit or their duly authorized agent to notify the *code enforcement official* when work is ready for inspection. It shall be the duty of the permit holder to provide access to and means for inspections of such work that are required by this code.
104.7 Reinspection and testing. Where any work or installation does not pass an initial test or inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the *code enforcement official* for inspection and testing.
104.8 Approval. After the prescribed tests and inspections indicate that the work complies in all respects with this code, a notice of approval shall be issued by the *code enforcement official*.

SECTION 301 CLIMATE ZONES
301.1 General. Climate *zones* from Table 301.1 shall be used in determining the applicable requirements from Chapters 4 and 5.

SECTION 302 DESIGN CONDITIONS
302.1 Interior design conditions. The interior design temperatures used for heating and cooling load calculations shall be a maximum of 72°F (22°C) for heating and minimum of 75°F (24°C) for cooling.
TABLE 301.1 CLIMATE ZONES BY COUNTY, ALL ZONES ARE CATEGORY "A" OR, MOIST DESIGNATIONS

Climate Zone 4			
Bronx	Nassau	Queens	Suffolk
Kings	New York	Richmond	Westchester

303.1.1 Building thermal envelope insulation. An *R*-value identification mark shall be applied by the manufacturer to each piece of *building thermal envelope* insulation 12 inches (305 mm) or greater in width. Alternately, the insulation installers shall provide a certification listing the type, manufacturer and *R*-value of insulation installed in each element of the *building thermal envelope*. For blown or sprayed insulation (fiberglass and cellulose), the initial installed thickness, settled thickness, settled *R*-value, installed density, coverage area and number of bags installed shall be *listed* on the certification. For sprayed polyurethane foam (SPF) insulation, the installed thickness of the areas covered and *R*-value of installed thickness shall be *listed* on the certification. The insulation installer shall sign, date and post the certification in a conspicuous location on the job site.

303.1.1.1 Blown or sprayed roof/ceiling insulation. The thickness of blown-in or sprayed roof/ceiling insulation (fiberglass or cellulose) shall be written in inches (mm) on markers that are installed at least one for every 300 square feet (28 m2) throughout the attic space. The markers shall be affixed to the trusses or joists and marked with the minimum initial installed thickness with numbers a minimum of 1 inch (25 mm) in height. Each marker shall face the attic access opening. Spray polyurethane foam thickness and installed *R*-value shall be *listed* on certification provided by the insulation installer.

303.1.2 Insulation mark installation. Insulating materials shall be installed such that the manufacturer's *R*-value mark is readily observable upon inspection.

303.1.3 Fenestration product rating. *U*-factors of fenestration products (windows, doors and skylights) shall be determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled *U*-factor shall be assigned a default *U*-factor from Table 303.1.3(1) or 303.1.3(2). The solar heat gain coefficient (SHGC) of glazed fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled SHGC shall be assigned a default SHGC from Table 303.1.3(3).
TABLE 303.1.3(1) DEFAULT GLAZED FENESTRATION *U*-FACTORS

FRAME TYPE	SINGLE PANE	DOUBLE PANE	SKYLIGHT SINGLE	SKYLIGHT DOUBLE
Metal	1.2	0.8	2	1.3
Metal with thermal break	1.1	0.65	1.9	1.1
Nonmetal or metal clad	0.95	0.55	1.75	1.05
Glazed block	0.6			

TABLE 303.1.3(2) DEFAULT DOOR *U*-FACTORS

DOOR TYPE	U-FACTOR
[illegible]	1.2
[illegible]	0.6
[illegible]	0.5
[illegible]	0.35

TABLE 303.1.3(3) DEFAULT GLAZED FENESTRATION SHGC

SINGLE GLAZED Clear	SINGLE GLAZED Tinted	DOUBLE GLAZED Clear	DOUBLE GLAZED Tinted	GLAZED BLOCK
0.8	0.7	0.7	0.6	0.6

303.1.4 Insulation product rating. The thermal resistance (*R*-value) of insulation shall be determined in accordance with the U.S. Federal Trade Commission *R*-value rule (CFR Title 16, Part 460, May 31, 2005) in units of h x ft2 x °F/Btu at a mean temperature of 75°F (24°C).

303.2 Installation. All materials, systems and equipment shall be installed in accordance with the manufacturer's installation instructions and the *Uniform Fire Prevention and Building Code*, and in the City of New York, the *New York City Construction Codes*.
303.2.1 Protection of exposed foundation insulation. Insulation applied to the exterior of basement walls, crawl space walls and the perimeter of slab-on-grade floors shall have a rigid, opaque and weather-resistant protective covering to prevent the degradation of the insulation's thermal performance. The protective covering shall cover the exposed exterior insulation and extend a minimum of 6 inches (153 mm) below grade.

303.3 Maintenance information. Maintenance instructions shall be furnished for equipment and systems that require preventive maintenance. Required regular maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label shall include the title or publication number for the operation and maintenance manual for that particular model and type of product.

NOTES APPLICABLE TO RESIDENTIAL BUILDING OR PORTION
CHAPTER 4
401.3 Certificate. A permanent certificate shall be posted on or in the electrical distribution panel. The certificate shall not cover or obstruct visibility of the circuit directory label, service disconnect label or other required labels. The certificate shall be completed by the builder or registered design professional. The certificate shall list the predominant *R*-values of insulation installed in or on ceiling/roof, walls, foundation (slab, *basement wall*, crawl space wall and/or floor) and ducts outside conditioned spaces; *U*-factors for fenestration. Where there is more than one value for each component, the certificate shall list the value covering the largest area. The certificate shall list the types and efficiencies of heating, cooling and service water heating equipment. Where a gas-fired unvented room heater, electric furnace, and/or baseboard electric heater is installed in the residence, the certificate shall list "gas-fired unvented room heater," "electric furnace," or "baseboard electric heater" as appropriate. An efficiency shall not be *listed* for gas-fired unvented room heaters, electric furnaces, or electric baseboard heaters.
SECTION 402 BUILDING THERMAL ENVELOPE
402.1.1 Insulation and fenestration criteria. The *building thermal envelope* shall meet the requirements of Table 402.1.1
TABLE 402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

CLIMATE ZONE	FENESTRATION U-FACTOR[b]	SKYLIGHT[b] U-FACTOR[b]	CEILING R-VALUE	WOOD FRAME WALL R-VALUE[f]	MASS WALL R-VALUE[g]	FLOOR R-VALUE	BASEMENT[c] WALL R-VALUE	SLAB[d] R-VALUE & DEPTH	CRAWL SPACE[c] R-VALUE
4	0.35	0.6	38	13	5/10[g]	19	10 / 13[c]	10, 2 ft[d]	10 / 13[c]

For SI: 1 foot = 304.8 mm.

a. *R*-values are minimums. *U*-factors and SHGC are maximums. R-19 batts compressed into a nominal 2 × 6 framing cavity such that the *R*-value is reduced by R-1 or more shall be marked with the compressed batt *R*-value in addition to the full thickness *R*-value.

b. The fenestration *U*-factor column excludes skylights.

c. The first value shown represents minimum "R" value of continuous insulated sheathing on the interior or the exterior of the wall, the second value shown represents minimum "R" value of cavity insulation at the interior of the basement wall. "10/13" means R-10 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

d. R-5 shall be added to the required slab edge *R*-values for heated slabs.

e. Or insulation sufficient to fill the framing cavity, R-19 minimum.

f. "13 + 5" means R-13 cavity insulation plus R-5 insulated sheathing. When structural sheathing is utilized per requirements of the *Residential Code of New York State*, Section R602.10 Wall Bracing (or per requirements of the *Building Code of New York State*, Section 2309.8.3 Bracing), insulating sheathing with a minimum value R-2 shall be added over the required structural sheathing. All other areas must be sheathed with insulating sheathing of R-5 as indicated by the table. If 100 percent continuous structural panel sheathing is used on a 2 × 4 wall, then R-5 continuous insulated sheathing must also be applied over the structural sheathing.

g. The second *R*-value applies when more than half the insulation is on the interior of the mass wall.
402.1.3 *U*-factor alternative. An assembly with a *U*-factor equal to or less than that specified in Table 402.1.3 shall be permitted as an alternative to the *R*-value in Table
TABLE 402.1.3 EQUIVALENT *U*-FACTORSa

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR[b]	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
4	0.35	0.6	0.03	0.082	0.141	0.047	0.050	0.065

402.2 Specific insulation requirements (Prescriptive).
402.2.1 Ceilings with attic spaces. When Section 402.1.1 would require R-38 in the ceiling, R-30 shall be deemed to satisfy the requirement for R-38 wherever the full height of uncompressed R-30 insulation extends over the wall top plate at the eaves
402.2.1.1 Unvented attic assemblies. Unvented attic assemblies (spaces between the ceiling joists of the top story and the roof rafters) shall be permitted in one- and two-family dwellings and multiple single-family dwellings (townhouses) as defined by the *Residential Code of New York State* if all the following conditions are met:
1. The unvented attic space is completely contained within the building thermal envelope.
2. No interior vapor retarders (Class I or II) are installed on the ceiling side (attic floor) of the unvented attic assembly.
3. Where wood shingles or shakes are used, a minimum 1/4 inch (6 mm) vented air space separates the shingles or shakes and the roofing underlayment above the structural sheathing.
5. Either Item 5.1, 5.2 or 5.3 shall be met, depending on the air permeability of the insulation directly under the structural roof sheathing.
5.1. Air-impermeable (e.g., spray foam) insulation only. Insulation shall be applied in direct contact with the underside of the structural roof sheathing.
5.2. Air-permeable (e.g., fiberglass or cellulose) insulation only. In addition to the air-permeable insulation installed directly below the structural sheathing, rigid board sheet insulation shall be installed directly above the structural roof sheathing as specified in Table R402.2.1.1 for condensation control.
5.3. Air-impermeable and air-permeable insulation. The air-impermeable (e.g., spray foam) insulation shall be applied in direct contact with the underside of the structural roof sheathing as specified in Table R402.2.1.1 for condensation control. The air-permeable (e.g., fiberglass or cellulose) insulation shall be installed directly under the air-impermeable (e.g., spray foam) insulation.
TABLE 402.2.1.1 INSULATION FOR CONDENSATION CONTROL

CLIMATE ZONE	MINIMUM RIGID BOARD OR AIR-IMPERMEABLE INSULATION R-VALUE[a]
4	R-15

402.2.2 Existing ceiling/roof assemblies without attic spaces (includes cathedral ceilings). Where Section 402.1.1 would require insulation levels above R-30 and the design of the roof/ceiling assembly does not allow sufficient space for the required insulation, the minimum required insulation for such roof/ceiling assemblies shall be R-30. This reduction of insulation from the requirements of Section 402.1.1 shall be limited to 500 square feet (46 m2) or 20 percent of the total insulated ceiling area, whichever is less. This reduction shall not apply to the *U*-factor alternative approach in Section 402.1.3 and the total UA alternative in Section 402.1.4.

402.2.3 Access hatches and doors (Mandatory). Access doors from conditioned spaces to unconditioned spaces (e.g., attics and crawl spaces) shall be weatherstripped and insulated to a level equivalent to the insulation on the surrounding surfaces. Access shall be provided to all equipment which prevents damaging or compressing the insulation. A wood framed or equivalent baffle or retainer is required to be provided when loose fill insulation is installed, the purpose of which is to prevent the loose fill insulation from spilling into the living space when the attic access is opened, and to provide a permanent means of maintaining the installed *R*-value of the loose fill insulation.

402.2.4 Mass walls. Mass walls for the purposes of this Chapter shall be considered above-grade walls of concrete block, concrete, insulated concrete form (ICF), masonry cavity, brick (other than brick veneer), earth (adobe, compressed earth block, rammed earth) and solid timber/logs.

402.2.5 Steel-frame ceilings, walls and floors. Steel- frame ceilings, walls and floors shall meet the insulation requirements of Table 402.2.5, or shall meet the *U*-factor requirements of Table 402.1.3. The calculation of the *U*-factor for a steel-frame envelope assembly shall use a series-parallel path calculation method.
TABLE 402.2.5 STEEL-FRAME CEILING, WALL AND FLOOR INSULATION (*R*-VALUE)

WOOD FRAME R-VALUE REQUIREMENT	COLD-FORMED STEEL EQUIVALENT R-VALUE[a]
Steel Truss Ceilings[b]	
R-30	R-38 or R-30 + 3 or R-26 + 5
R-38	R-49 or R-38 + 3
R-49	R-38 + 5
Steel Joist Ceilings[b]	
R-30	R-38 in 2 × 4 or 2 × 6 or 2 × 8 R-49 in any framing
R-38	R-49 in 2 × 4 or 2 × 6 or 2 × 8 or 2 × 10
Steel Framed Wall	
R-13	R-13 + 5 or R-15 + 4 or R-21 + 3 or R-0 + 10
R-20	R-13 + 10 or R-19 + 9 or R-25 + 8
Steel Joist Floor	
R-30	R-19 or R-30 + 3 or R-26 + 5
R-19	R-19 + 6 in 2 × 6 R-19 + 12 in 2 × 8 or 2 × 10

For SI: 1 inch = 25.4 mm.

a. Cavity insulation *R*-value is listed first, followed by continuous insulation *R*-value.
b. Insulation exceeding the height of the framing shall cover the framing.
402.2.6 Floors. Floor insulation shall be installed to maintain permanent contact with the underside of the subfloor decking.

402.2.7 Basement walls. Walls associated with conditioned basements shall be insulated from the top of the *basement wall* down to 10 feet (3048 mm) below grade or to the basement floor, whichever is less. Walls associated with unconditioned basements shall meet this requirement unless the floor overhead is insulated in accordance with Sections 402.1.1 and 402.2.6.

402.2.8 Slab-on-grade floors. Slab-on-grade floors with a floor surface less than 12 inches (305 mm) below grade shall be insulated in accordance with Table 402.1.1. The insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table 402.1.1 by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by a minimum of 10 inches (254 mm) of soil. The top edge of the insulation installed between the *exterior wall* and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the *exterior wall*. Slab-edge insulation is not required in jurisdictions designated by the *code enforcement official* as having a very heavy termite infestation.

402.2.9 Crawl space walls. As an alternative to insulating floors over crawl spaces, crawl space walls shall be permitted to be insulated when the crawl space is not vented to the outside. Crawl space wall insulation shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend at least 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.

402.2.10 Masonry veneer. Insulation shall not be required on the horizontal portion of the foundation that supports a masonry veneer.

402.2.11 Thermally isolated sunroom insulation (Prescriptive). For sunroom additions not exceeding 500 square feet (46 m2) in area, the minimum ceiling insulation *R*-values shall be R-19 in Zone 4
New wall(s), windows and doors separating such sunroom addition from *conditioned* space shall meet the *building thermal envelope* requirements of Table 402.1.1.

402.2.12 Tenant separation walls. (Mandatory). Fire separations between dwelling units in two-family dwellings and multiple single-family dwellings (townhouses) shall be insulated to no less than R-10 and the walls shall be air sealed in accordance with Section 402.4.1 of this chapter.

402.3 Fenestration (Prescriptive).

402.3.4 Thermally isolated sunroom *U*-factor **(Prescriptive).** maximum fenestration *U*-factor shall be 0.50 and the maximum skylight *U*-factor shall be 0.75. New windows and doors separating the sunroom from *conditioned space* shall meet the *building thermal envelope* requirements.

402.3.5 Replacement fenestration. Where some or all of an existing fenestration unit is replaced with a new fenestration product, including sash and glazing, the replacement fenestration unit shall meet the applicable requirements for *U*-factor in Table 402.1.1, where required by Section 101.4.3.

402.4 Air leakage (Mandatory).
402.4.1 Building thermal envelope. The *building thermal envelope* shall be durably sealed to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material:
1. All joints, seams and penetrations.
2. Site-built windows, doors and skylights.
3. Openings between window and door assemblies and their respective jambs and framing.
4. Utility penetrations.
5. Dropped ceilings or chases adjacent to the thermal envelope.
6. Knee walls.
7. Walls and ceilings separating a garage from conditioned spaces.
8. Behind tubs and showers on exterior walls.
9. Common walls between dwelling units.
10. Attic access openings.
11. Rim joist junctions.
12. Sill plates and headers. Foam plastic (spray foam insulation) shall be permitted to be spray applied to a sill plate, header, and rim joists without the thermal barrier as specified in the *Residential Code of New York State*, Section 314.4 subject to all of the following:
a. The maximum thickness of the foam plastic shall be 31/4 inches (83 mm).
b. The density of the foam plastic shall be in the range of 0.5 to 2.0 pounds per cubic foot (8 to 32 kg/m3).
c. The foam plastic shall have a flame spread index of 25 or less and an accompanying smoke developed index of 450 or less when tested in accordance with ASTM E 84.
13. Other sources of infiltration

Revision No.	Date	Remarks

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Project:
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BROOKLYN N.Y. 11222

Title:
ENERGY CODE
COMPLIANCE NOTES

DWG #
EN-001.00

Date: 12/15/14
Scale: 3/8" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

402.4.2 Air sealing and insulation (Mandatory). Building envelope air tightness and insulation installation shall be demonstrated to comply with one of the following options given by Section 402.4.2.1 or 402.4.2.2:

TABLE 402.2.5 STEEL-FRAME CEILING, WALL AND FLOOR INSULATION (*R*-VALUE)

COMPONENT	CRITERIA
Air barrier and thermal barrier	Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier.
	Breaks or joints in the air barrier are filled or repaired.
	Air-permeable insulation is not used as a sealing material.
	Air-permeable insulation is inside of an air barrier.
Ceiling/attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.
	Attic access (except unvented attic), knee wall door, or drop down stair is sealed.
Walls	Corners and headers are insulated.
	Junction of foundation and sill plate is sealed.
Windows and doors	Space between window/door jambs and framing is sealed.
Rim joists	Rim joists are insulated and include an air barrier.
Floors (including above-garage and cantilevered floors)	Insulation is installed to maintain permanent contact with underside of subfloor decking.
	Air barrier is installed at any exposed edge of insulation.
Crawl space walls	Insulation is permanently attached to walls.
	Exposed earth in unvented crawl spaces is covered with Class I vapor retarder with overlapping joints taped.
Shafts, penetrations	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.
Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.
Garage separation	Air sealing is provided between the garage and conditioned spaces.
Recessed lighting	Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception—fixtures in conditioned space.
Plumbing and wiring	Insulation is placed between outside and pipes.
	Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
Shower/tub on exterior wall	Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.
Electrical/phone box on exterior walls	Air barrier extends behind boxes or air sealed-type boxes are installed.
Common wall	Air barrier is installed in common wall between dwelling units.
HVAC register boots	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall.
Fireplace	Fireplace walls include an air barrier.

402.4.2.1 Testing option. Building envelope tightness and insulation installation shall be considered acceptable when tested air leakage is less than seven air changes per hour (ACH) when tested with a blower door at a pressure of 1.0 psf (50 Pa) as verified using instruments and procedures specified in ASHRAE/ASTM E779. The test shall be conducted by a qualified person, who shall demonstrate competence to the satisfaction of the code enforcement official for the conduct of such tests. For the purpose of this section, ACH50 shall mean air changes per hour of infiltration into a house as measured with a blower door at 50 pascals of pressure, in accordance with ASHRAE/ASTM E779. Testing shall occur after rough in and after installation of penetrations of the building envelope, including penetrations for utilities, plumbing, electrical, ventilation and combustion appliances.
During testing:
1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed;
2. Dampers shall be closed, but not sealed, including exhaust, intake, makeup air, backdraft and flue dampers;
3. Interior doors shall be open;
4. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
5. Heating and cooling system(s) shall be turned off;
6. HVAC ducts shall not be sealed; and
7. Supply and return registers shall not be sealed.

Test results shall be provided to the code enforcement official and shall include:
a. Name and place of business of the tester;
b. Address of the building which was tested;
c. Conditioned floor area of dwelling, calculated in accordance with ANSI Z65-1996, except that conditioned floor area shall include areas where the ceiling height is less than 5 feet (1524 mm);
d. Measurement of ACH50; and
e. Certification of accuracy of test results and signature of tester.

402.4.2.2 Visual inspection option. Building envelope tightness and insulation installation shall be considered acceptable when the items listed in Table 402.4.2, applicable to the method of construction, are field verified. Where required by the *code enforcement official*, an *approved* party independent from the installer of the insulation shall inspect the air barrier and insulation.

402.4.3 Recessed lighting. Recessed luminaires installed in the *building thermal envelope* shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as meeting ASTM E 283 when tested at 1.57 psf (75 Pa) pressure differential with no more than 2.0 cfm (0.944 L/s) of air movement from the *conditioned space* to the ceiling cavity. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

402.4.4 Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and *listed* and *labeled* by the manufacturer.

Exception: Site-built windows, skylights and doors.

402.6 Maximum fenestration *U*-factor. (Mandatory). The area weighted average maximum fenestration *U*-factor permitted using trade offs from Section 402.1.4 or Section 405 shall be 0.48 vertical fenestration, and 0.75 for skylights.
SECTION 403 SYSTEMS (Mandatory)
403.1 Controls. At least one thermostat shall be provided for each separate heating and cooling system.
403.1.1 Programmable thermostat. Each dwelling unit shall have at least one thermostat capable of automatically adjusting the space temperature set point of the largest heating or cooling zone and capable of controlling the heating and cooling system on a daily schedule to maintain different temperature set points at different times of the day. This thermostat shall include the capability to set back or temporarily operate the system to maintain zone temperatures down to 55°F (13°C) or up to 85°F (29°C). The thermostat shall initially be programmed with a heating temperature set point no higher than 70°F (21°C) and a cooling temperature set point no lower than 78°F (26°C).

403.1.2 Heat pump supplementary heat. Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

403.2 Ducts.
403.2.1 Insulation. Supply ducts in attics shall be insulated to a minimum of R-8. All other ducts shall be insulated to a minimum of R-6.
Exception: Ducts or portions thereof located completely inside the *building thermal envelope*.

403.2.2 Sealing. All ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with Section M1601.3.1 of the *Residential Code of New York State*, or, in New York City, the *New York City Construction Codes*. Duct tightness shall be verified by either of the following:
1. Post construction test: Leakage to outdoors shall be less than or equal to 8 cfm (226.5 L/min) per 100 ft2 (9.29 m2) of *conditioned floor area* or a total leakage less than or equal to 12 cfm (12 L/min) per 100 ft2 (9.29 m2) of *conditioned floor area* when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
2. Rough-in test: Total leakage shall be less than or equal to 6 cfm (169.9 L/min) per 100 ft2 (9.29 m2) of *conditioned floor* area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the roughed in system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 ft2 (9.29 m2) of *conditioned floor area.*

Exception: Duct tightness test is not required if the air handler and all ducts are located within *conditioned space.*

The building duct and plenum system shall meet the requirements above as verified using instruments and procedures specified in ANSI/ASHRAE 152 and ASTM E1554 Test Method A. Tests at other test pressures are permitted to be used if they are converted to equivalent leakage at 25 pascals (Pa) of pressure, and such equivalence is demonstrated to the satisfaction of the code enforcement official. The test shall be conducted by a qualified person, who shall demonstrate competence to the satisfaction of the code enforcement official for the conduct of such tests. For the purpose of this section CFM25 shall mean the leakage from all ducts and plenums in cubic feet per minute measured at 25 pascals of pressure in accordance with ANSI/ASHRAE 152 or ASTM E1554. Test results shall be provided to the code enforcement official and shall include:
1. Name and place of business of the tester;
2. Address of the building which was tested;
3. *Conditioned floor area* of dwelling, calculated in accordance with ANSI Z65, except that *conditioned floor area* shall include areas where the ceiling height is less than 5 feet (1524 mm);
4. Measurement of CFM25; and
5. Certification of accuracy of test results and signature of tester.

403.2.3 Building cavities. Building framing cavities shall not be used as supply ducts.

403.3 Mechanical system piping insulation. Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

403.4 Circulating hot water systems. All circulating service hot water piping shall be insulated to at least R-2. Circulating hot water systems shall include an automatic or readily *accessible* manual switch that can turn off the hot water circulating pump when the system is not in use.

403.5 Mechanical ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

403.6 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual J or similar section of the *Residential Code of New York State.*

403.7 Systems serving multiple dwelling units. Systems serving buildings containing three or more dwelling units shall comply with Sections 503 and 504 in lieu of Section 403.

SECTION 404 ELECTRICAL POWER AND LIGHTING SYSTEMS

404.1 Lighting equipment (Mandatory). A minimum of 50 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps.

404.2 Electrical energy consumption. In all buildings having individual dwelling units, provisions shall be made to determine the electrical energy consumed by each unit by separately metering or monitoring individual dwelling units.

TABLE I – PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE – RESIDENTIAL BUILDINGS

	Inspection/Test	Frequency (minimum)	Reference Standard (See ECC Chapter 6) or Other Criteria	ECC or Other Citation
IA	**Envelope Inspections**			
IA1	**Protection of exposed foundation insulation:** Insulation shall be visually inspected to verify proper protection where applied to the exterior of basement or cellar walls, crawl-space walls and/or the perimeter of slab-on-grade floors.	Prior to backfill	Approved construction documents	303.2.1
IA2	**Insulation placement and R-values:** Installed insulation for each component of the conditioned space envelope and at junctions between components shall be visually inspected to ensure that the R-values are marked, that such R-values conform to the R-values identified in the construction documents and that the insulation is properly installed. Certifications for unmarked insulation shall be similarly visually inspected.	As required to verify continuous enclosure while walls, ceilings and floors are open	Approved construction documents	303.1, 303.1.1, 303.1.2, 402.1, 402.2, 402.4.2.2, Table 402.4.2
IA3	**Fenestration thermal values and product ratings:** U-factors of installed fenestration shall be verified by visual inspection for conformance with the U-factors identified in the construction drawings, either by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in ECC Tables 303.1.3(1) and (2).	As required during installation	Approved construction drawings; NFRC 100	303.1, 303.1.3, 402.1, 402.3, 402.6
IA4	**Fenestration product ratings for air leakage:** Windows, skylights and sliding glass doors, except site-built windows, skylights and doors, shall be visually inspected to verify that installed assemblies are listed and labeled to the referenced standard.	As required during installation	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440	402.4.4
IA5	**Fenestration areas:** Dimensions of windows, doors and skylights shall be verified by visual inspection.	Prior to final construction inspection	Approved construction documents	402.3, 402.6
IA6	**Air sealing and insulation – visual inspection option:** Openings and penetrations in the building envelope, including site-built fenestration and doors, shall be visually inspected to verify that they are properly sealed, in accordance with Table 402.4.2.	As required during envelope construction	Approved construction documents; ASTM E283; ASTM E84; RCNYS	402.4.1, 402.4.2.2, 402.4.3
IA7	**Air sealing and insulation – testing option:** Testing shall be performed in accordance with section ECC 402.4.2.1 and shall be accepted if the building meets the requirements detailed in such section. Test results shall be retained in accordance with the provisions of Title 28.	Prior to final construction inspection	ASHRAE/ASTM E779; ANSI Z65; Approved construction documents	402.4.2.1
IB	**Mechanical and Plumbing Inspections**			
IB1	**Fireplaces:** Provision of combustion air and tight-fitting fireplace doors shall be verified by visual inspection.	Prior to final construction inspection	Approved construction documents; ANSI Z21.60 (see also MC 904), ANSI Z21.50	303.1.5; BC 2111; MC Chapters 7, 9; FGC Chapter 6
IB2	**Outdoor air intake and exhaust dampers:** Not less than 20% of installed automatic or gravity dampers, and a minimum of one of each type, shall be visually inspected and physically tested for proper operation.	Prior to final construction inspection	Approved construction documents	403.5, 403.7, 503
IB3	**Equipment:** Heating and cooling equipment shall be verified by visual inspection for proper sizing. Pool heaters and covers shall be verified by visual inspection.	Prior to final plumbing and construction inspection	ACCA Manual J; Approved construction documents, including energy analysis	403.6, 403.7, 403.9, 503
IB4	**Controls:** System controls shall be inspected to verify that each dwelling is provided with at least one individual programmable thermostat with capabilities as described in ECC 403.1.1, and that such controls are set and operate as specified in ECC 403.1.1. Controls for supplementary electric-resistance heat pumps shall be inspected to verify that such controls prevent supplemental heat operation when the heat pump compressor can meet the heating load. Controls for snow- and ice-melting systems and pools shall be inspected for proper operation. Not less than 20% or one of each control type, whichever is more, shall be inspected.	Prior to final electrical and construction inspection	Approved construction documents, including control system narratives	403.1, 403.4, 403.7, 403.8, 403.9, 503, 504
IB5	**Duct and piping insulation and duct sealing:** Installed duct and piping insulation shall be visually inspected to verify correct insulation placement and values. Ducts, air handlers, filter boxes and building cavities used as ducts shall be visually inspected for proper sealing.	Prior to closing ceilings and walls and prior to final construction inspection	Approved construction documents; RCNYS M1601.3.1	403.2.1, 403.2.2, 403.3, 403.4, 403.7, 503, 504; MC Section 603; 1RCNY §5000-01
IB6	**Duct leakage testing:** Where the air handler and/or some ductwork is in unconditioned space, duct-leakage testing shall be performed either after rough-in or post-construction to ensure compliance with ECC 403.2.2. Not less than 20% of such ductwork shall be tested.	Prior to closing ceilings and walls and prior to final construction inspection	Approved construction documents; ANSI/ASHRAE 152, ASTM E1554 Test Method A	403.2.2, 403.7, 503
IC	**Electrical Power and Lighting Systems**			
IC1	**Electrical metering:** The presence and operation of individual meters or other means of monitoring individual dwelling units shall be verified by visual inspection for all dwelling units.	Prior to final electrical and construction inspection	Approved construction documents	404.2
IC2	**Lighting in dwelling units:** Lamps in permanently installed lighting fixtures shall be visually inspected to verify compliance with high-efficacy requirements.	Prior to final electrical and construction inspection	Approved construction documents	404.1
ID	**Other**			
ID1	**Maintenance information:** Maintenance manuals for equipment and systems requiring preventive maintenance shall be reviewed for applicability to installed equipment and systems before such manuals are provided to the owner. Labels required for such equipment or systems shall be inspected for accuracy and completeness.	Prior to sign-off or issuance of Certificate of Occupancy	Approved construction documents	303.3
ID2	**Permanent certificate:** The installed permanent certificate shall be visually inspected for location, completeness and accuracy.	Prior to final plumbing, electrical and/or construction inspection as applicable	Approved construction documents	401.3; 1RCNY 5000-01(g)(5)

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

TAMAR KISILEVITZ
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Drawing scales as indicated are for reference only and are not intended to accurately depict actual or designed conditions. Written dimensions shall govern.

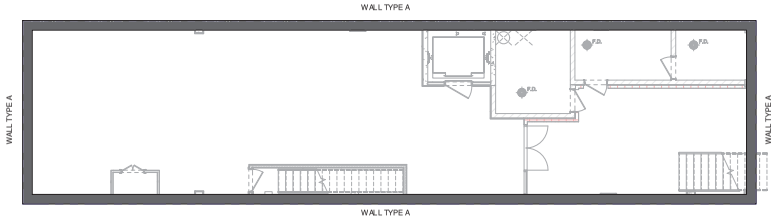
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ENERGY CODE
COMPLIANCE NOTES

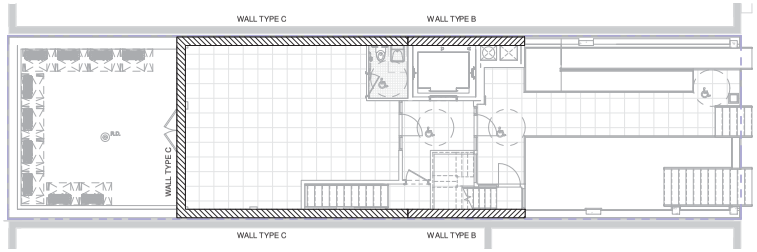
DWG #
EN-002.00

Signature:
Seal: REGISTERED ARCHITECT · STATE OF NEW YORK

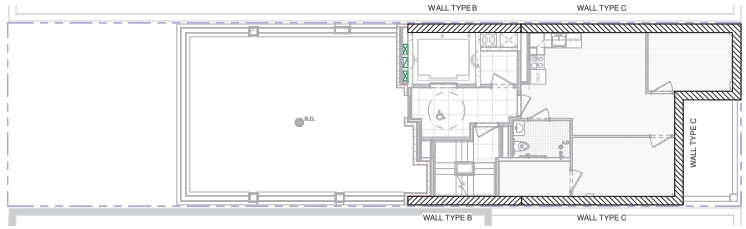
Date: 12/15/14
Scale: 3/8" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker



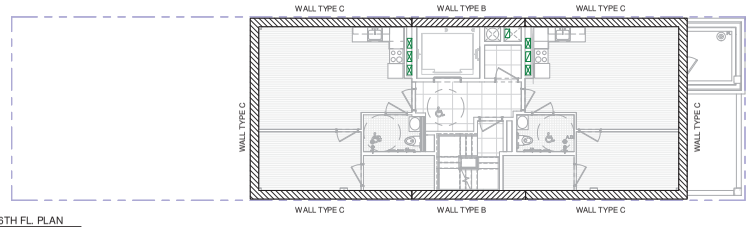
1 EN-CELLAR
1/8" = 1'-0"



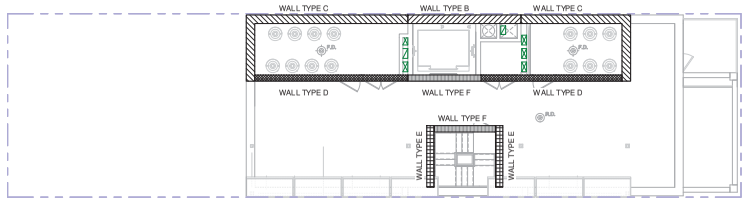
2 EN-1ST FLOOR
1/8" = 1'-0"



3 2ND F.L. PLAN
1/8" = 1'-0"



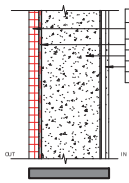
4 3RD-6TH FL. PLAN
1/8" = 1'-0"



5 EN-ROOF
1/8" = 1'-0"

WALL SECTIONS

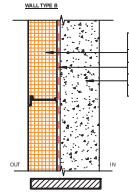
WALL TYPE A



KEY ON SECTION

	R-VALUES
2" INSULATION	0.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
12" CONCRETE FOUNDATION WALL	1.28
1 1/2" WALL FURRING	?
TOTAL	?

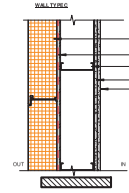
WALL TYPE B



KEY ON SECTION

	R-VALUES
8" SPS POLYURETHANE PANELS (R-7 PER INCH)	42.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
8" CONCRETE	1.11
TOTAL	43.11

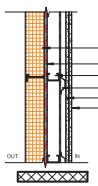
WALL TYPE C



KEY ON SECTION

	R-VALUES
6" SPS POLYURETHANE PANELS (R-7 PER INCH)	28.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
6 3/4" MTL STUDS	0.00
5/8" G.W.B(DRAGON BOARD)	0.45
5/8" G.W.B(DRAGON BOARD)	0.45
TOTAL	29.11

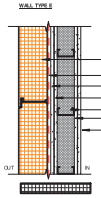
WALL TYPE D



KEY ON SECTION

	R-VALUES
4" SPS POLYURETHANE PANELS (R-7 PER INCH)	42.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
3 1/2" MTL STUD	0.00
7/8" MTL FURRING @ 16 O.C.	0.00
5/8" G.W. B(DRAGON BOARD)	0.45
5/8" G.W. B(DRAGON BOARD)	0.45
TOTAL	42.00

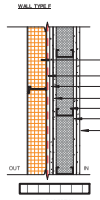
WALL TYPE E



KEY ON SECTION

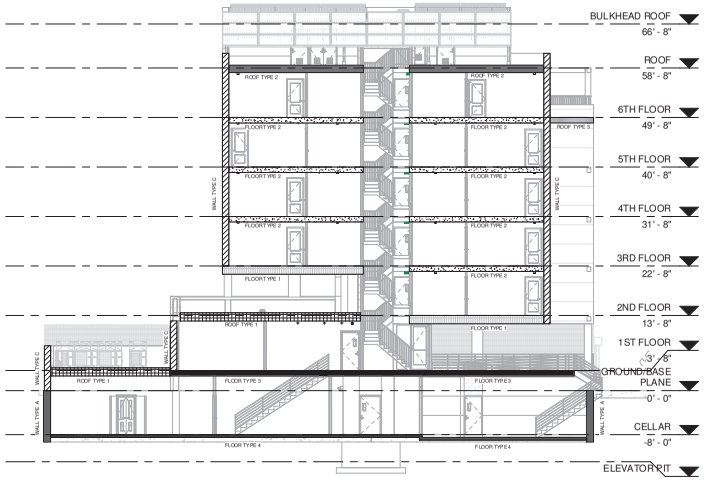
	R-VALUES
4" SPS POLYURETHANE PANELS (R-7 PER INCH)	42.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
5/8" G.W. B(TYPE X)	0.45
5/8" G.W. B(TYPE X)	0.45
3 1/2" METAL STUD	0.00
5/8" G.W. B(TYPE X)	0.45
5/8" G.W. B(TYPE X)	0.45
TOTAL	42.00

WALL TYPE F



KEY ON SECTION

	R-VALUES
4" SPS POLYURETHANE PANELS (R-7 PER INCH)	42.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
5/8" G.W. B(TYPE X)	0.45
5/8" G.W. B(TYPE X)	0.45
3 1/2" METAL STUD	0.00
5/8" G.W. B(TYPE X)	0.45
5/8" G.W. B(TYPE X)	0.45
TOTAL	42.00



PROPOSED FLOOR SECTIONS

FLOOR TYPE 1 - TYP. FLOOR

KEY ON SECTION

	R-VALUES
3/4" WOOD TILE FINISH	0.00
1" PLYWOOD SHEATHING	0.00
1/4" ACOUSTICAL TREATMENT	0.00
10" CONCRETE	0.16
6" INSULATION SLAB	0.16
TOTAL	1.65

FLOOR TYPE 2 - TYP. FLOOR APARTMENTS

KEY ON SECTION

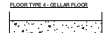
	R-VALUES
3/4" WOOD TILE FINISH	0.00
1" PLYWOOD SHEATHING	0.00
1/4" ACOUSTICAL TREATMENT	0.00
10" CONCRETE	0.16
7/8" MTL FURRING 16@O.C.	0.00
1 LAYER OF 5/8" G.W.B	0.56
TOTAL	1.65

FLOOR TYPE 3 - TYP. FLOOR PUBLIC HALLWAYS

KEY ON SECTION

	R-VALUES
3/4" CERAMIC TILE FINISH	0.00
1" PLYWOOD SHEATHING	0.00
1/4" ACOUSTICAL TREATMENT	0.00
10" CONCRETE	0.16
TOTAL	1.65

FLOOR TYPE 4 - CELLAR FLOOR

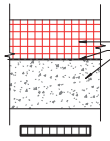


KEY ON SECTION

	R-VALUES
4" CONCRETE SLAB	0.32
TOTAL	16.00

PROPOSED ROOF SECTIONS

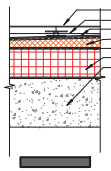
ROOF TYPE 1 - MECH ROOF



KEY ON SECTION

	R-VALUES
6" INSULATION	0.00
FIBERGLASS ROOFING MEMBRANE	0.00
10" CONCRETE	0.00
TOTAL	??

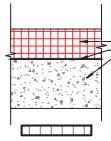
ROOF TYPE 2 - TERRACE



KEY ON SECTION

	R-VALUES
ROOF PAVERS	0.00
1/4" COVERBOARD	0.00
GEOTEXTILE FILTER FABRIC	0.00
2" POLYISO BOARD	10.8
2 LAYER BITUMINOUS ROOFING	0.00
6" INSULATION	0.00
10" CONCRETE	0.00
TOTAL	??

ROOF TYPE 3 - BALCONY



KEY ON SECTION

	R-VALUES
6" INSULATION	0.00
FIBERGLASS ROOFING MEMBRANE	0.00
10" CONCRETE	0.00
TOTAL	??

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

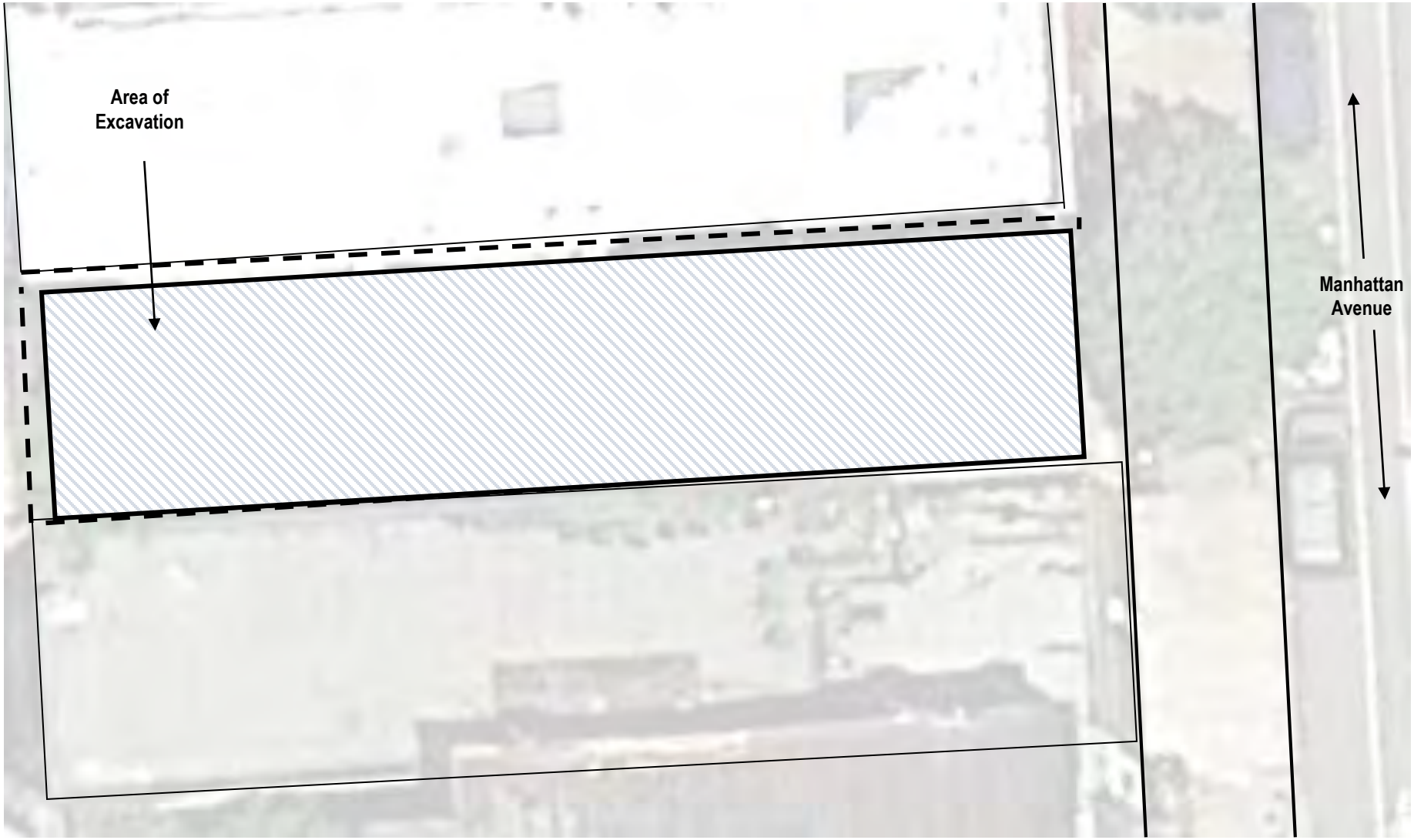
Title:
ENERGY ANALYSIS-WALL & FLOOR TYPES

DWG.#
EN-003.00

Signature

Seal: REGISTERED ARCHITECT TAMAR RIGA FITZ STATE OF NEW YORK

Date	12/11/14
Scale	As indicated
Drawn	Designer
Job #	32157
Checked	Checker



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ENVIRONMENTAL
ASSOCIATES, LTD.

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FIGURE 5.0
Area of Excavations

415 MANHATTAN AVENUE
BROOKLYN, NEW YORK 11222

PROJECT #: 12-409

DRAWING DATE: 4-17-2013

DRAWN BY: THJ

CHECKED BY:

REVISIONS: 6-5-2013

N

NOT TO SCALE

LEA makes no guarantees as to the accuracy of this drawing and it should only be used for informational purposes.

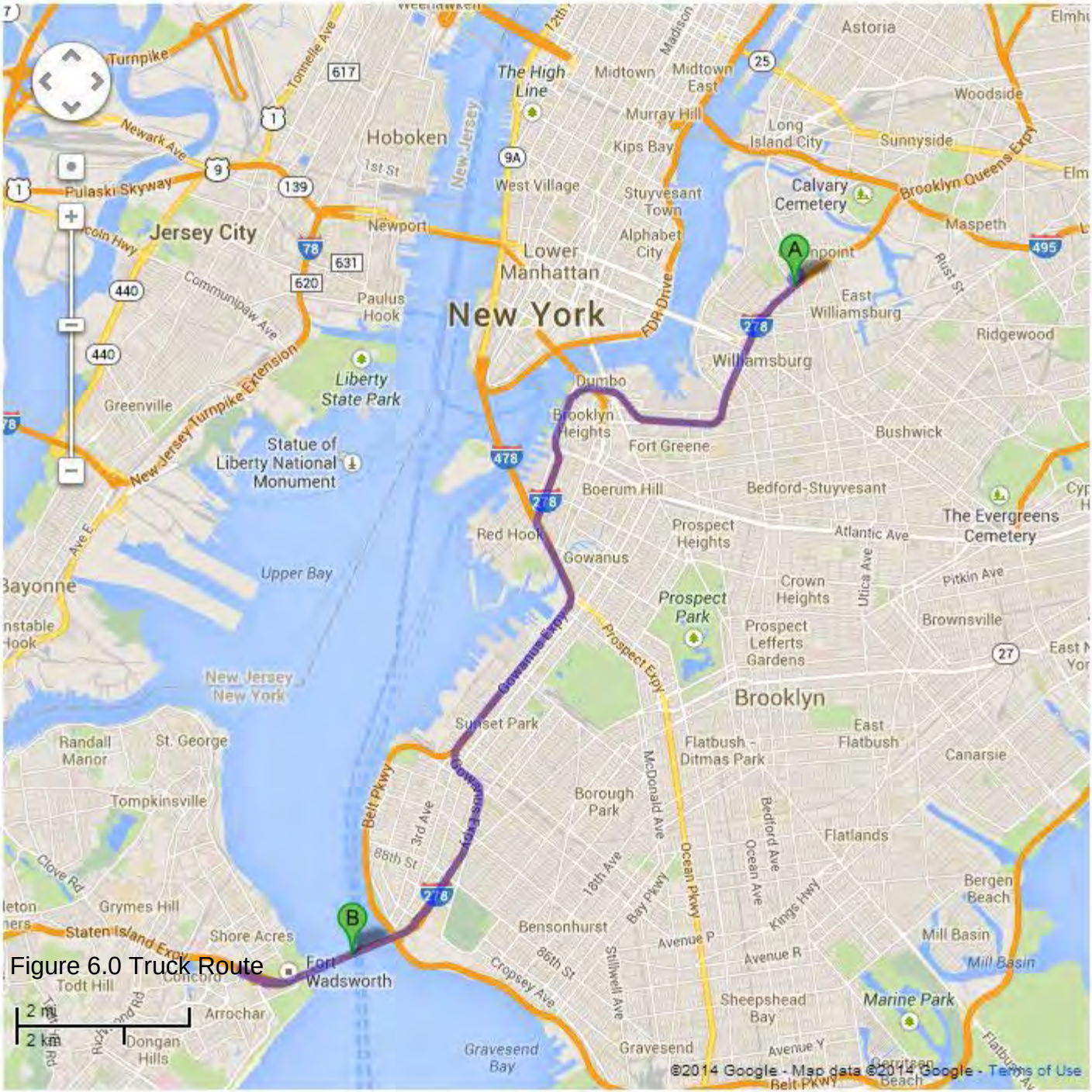

Figure 6.0 Truck Route

SampleID YorkID Sampling Date DilutionFactor ClientMatrix RptUnits		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives Soil mg/Kg	SB-1 (0-2') 13F0911-01 6/25/2013 9:45:00 AM 10 Soil mg/kg dry		SB-1 (10-12') 13F0911-02 6/25/2013 9:45:00 AM 5 Soil mg/kg dry		SB-2 (0-2') 13F0911-03 6/25/2013 9:45:00 AM 50 Soil mg/kg dry		SB-2 (10-12') 13F0911-04 6/25/2013 9:45:00 AM 5 Soil mg/kg dry		SB-3 (6-8') 13F0911-05 6/25/2013 12:00:00 PM 5 Soil mg/kg dry		DUP-SB 13F0911-12 6/25/2013 3:00:00 PM 5 Soil mg/kg dry	
Compound	**CASNumber**		**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Volatile Organics, 8260 List		mg/kg dry	mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
1,1,1,2-Tetrachloroethane	630-20-6	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,1,1-Trichloroethane	71-55-6	0.68	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,1,2,2-Tetrachloroethane	79-34-5	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,1,2-Trichloroethane	79-00-5	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,1-Dichloroethane	75-34-3	0.27	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,1-Dichloroethylene	75-35-4	0.33	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,1-Dichloropropylene	563-58-6	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,2,3-Trichlorobenzene	87-61-6	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,2,3-Trichloropropane	96-18-4	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,2,4-Trichlorobenzene	120-82-1	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,2,4-Trimethylbenzene	95-63-6	3.6	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,2-Dibromo-3-chloropropane	96-12-8	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,2-Dibromoethane	106-93-4	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,2-Dichlorobenzene	95-50-1	1.1	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,2-Dichloroethane	107-06-2	0.02	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,2-Dichloropropane	78-87-5	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,3,5-Trimethylbenzene	108-67-8	8.4	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,3-Dichlorobenzene	541-73-1	2.4	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,3-Dichloropropane	142-28-9	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,4-Dichlorobenzene	106-46-7	1.8	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
1,4-Dioxane	123-91-1	0.1	0.13	U	0.13	U	0.12	U	0.12	U	0.14	U	0.12	U
2,2-Dichloropropane	594-20-7	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
2-Butanone	78-93-3	0.12	0.0063	U	0.031		0.0061	U	0.0060	U	0.0068	U	0.020	
2-Chlorotoluene	95-49-8	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
4-Chlorotoluene	106-43-4	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Acetone	67-64-1	0.05	0.0063	U	0.13		0.032		0.057	B	0.037	B	0.088	B
Benzene	71-43-2	0.06	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Bromobenzene	108-86-1	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Bromochloromethane	74-97-5	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Bromodichloromethane	75-27-4	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Bromoform	75-25-2	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Bromomethane	74-83-9	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Carbon tetrachloride	56-23-5	0.76	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Chlorobenzene	108-90-7	1.1	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Chloroethane	75-00-3	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Chloroform	67-66-3	0.37	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Chloromethane	74-87-3	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
cis-1,2-Dichloroethylene	156-59-2	0.25	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
cis-1,3-Dichloropropylene	10061-01-5	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Dibromochloromethane	124-48-1	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Dibromomethane	74-95-3	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Dichlorodifluoromethane	75-71-8	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Ethyl Benzene	100-41-4	1	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Hexachlorobutadiene	87-68-3	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Isopropylbenzene	98-82-8	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Methyl tert-butyl ether (MTBE)	1634-04-4	0.93	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Methylene chloride	75-09-2	0.05	0.017	J	0.015	J	0.020	J	0.0060	U	0.0068	U	0.0059	U
n-Butylbenzene	104-51-8	12	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
n-Propylbenzene	103-65-1	3.9	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Naphthalene	91-20-3	12	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
o-Xylene	95-47-6	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
p- & m- Xylenes	179601-23-1	~	0.013	U	0.013	U	0.012	U	0.012	U	0.014	U	0.012	U
p-Isopropyltoluene	99-87-6	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
sec-Butylbenzene	135-98-8	11	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Styrene	100-42-5	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
tert-Butylbenzene	98-06-6	5.9	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Tetrachloroethylene	127-18-4	1.3	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Toluene	108-88-3	0.7	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
trans-1,2-Dichloroethylene	156-60-5	0.19	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
trans-1,3-Dichloropropylene	10061-02-6	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Trichloroethylene	79-01-6	0.47	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Trichlorofluoromethane	75-69-4	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Vinyl acetate	108-05-4	~	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Vinyl Chloride	75-01-4	0.02	0.0063	U	0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
Xylenes, Total	1330-20-7	0.26	0.019	U	0.019	U	0.018	U	0.018	U	0.020	U	0.018	U
Semi-Volatiles, PAH Target List		mg/kg dry	mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
2-Methylnaphthalene	91-57-6	~	2.40	U	0.242	U	11.8	J,D	0.231	U	0.260	U	0.227	U
Acenaphthene	83-32-9	20	1.13	U	0.181	J	52.8	D	0.109	U	0.123	U	0.268	J
Acenaphthylene	208-96-8	100	1.50	U	0.151	U	7.34	U	0.145	U	0.163	U	0.142	U
Anthracene	120-12-7	100	1.93	J,D	0.437		66.9	D	0.165	U	0.185	U	0.569	
Benzo(a)anthracene	56-55-3	1	6.44	D	0.660		97.2	D	0.113	U	0.127	U	0.774	
Benzo(a)pyrene	50-32-8	1	7.16	D	0.646		102	D	0.119	U	0.134	U	0.730	
Benzo(b)fluoranthene	205-99-2	1	6.46	D	0.396		63.5	D	0.252	U	0.284	U	0.457	
Benzo(g,h,i)perylene	191-24-2	100	3.86	D	0.104	U	41.9	D	0.100	U	0.112	U	0.102	J
Benzo(k)fluoranthene	207-08-9	0.8	5.72	D	0.480		117	D	0.301	U	0.339	U	0.530	
Chrysene	218-01-9	1	6.16	D	0.610		91.1	D	0.139	U	0.156	U	0.745	
Dibenzo(a,h)anthracene	53-70-3	0.33	1.85	J,D	0.126	U	26.0	D	0.121	U	0.136	U	0.142	J
Fluoranthene	206-44-0	100	13.4	D	1.62		184	D	0.177	U	0.198	U	1.70	
Fluorene	86-73-7	30	1.50	U	0.219	J	39.1	D	0.145	U	0.163	U	0.304	
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	4.12	D	0.254	J	46.7	D	0.137	U	0.154	U	0.296	J
Naphthalene	91-20-3	12	0.769	U	0.0774	U	59.3	D	0.0741	U	0.0833	U	0.0941	J
Phenanthrene	85-01-8	100	8.90	D	1.42		189	D	0.157	U	0.177	U	1.83	
Pyrene	129-00-0	100	9.65	D	1.46		150	D	0.123	U	0.138	U	1.60	
Pesticides/PCBs, EPA 8081/8082 List		mg/kg dry	mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
4,4'-DDD	72-54-8	0.0033	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
4,4'-DDE	72-55-9	0.0033	0.00206	U	0.00208	U	0.0111	D	0.00199	U	0.00620	D	0.00195	U
4,4'-DDT	50-29-3	0.0033	0.00206	U	0.00208	U	0.0370	D	0.00199	U	0.0113	D	0.00195	U
Aldrin	309-00-2	0.005	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
alpha-BHC	319-84-6	0.02	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Aroclor 1016	12674-11-2	~	0.0213	U	0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
Aroclor 1221	11104-28-2	~	0.0213	U	0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
Aroclor 1232	11141-16-5	~	0.0213	U	0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
Aroclor 1242	53469-21-9	~	0.0213	U	0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
Aroclor 1248	12672-29-6	~	0.0213	U	0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
Aroclor 1254	11097-69-1	~	0.0213	U	0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
Aroclor 1260	11096-82-5	~	0.0213	U	0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
beta-BHC	319-85-7	0.036	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Chlordane, total	57-74-9	~	0.00826	U	0.00830	U	0.00807	U	0.00795	U	0.00894	U	0.00781	U
delta-BHC	319-86-8	0.04	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Dieldrin	60-57-1	0.005	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Endosulfan I	959-98-8	2.4	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Endosulfan II	33213-65-9	2.4	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Endosulfan sulfate	1031-07-8	2.4	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Endrin	72-20-8	0.014	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Endrin aldehyde	7421-93-4	~	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Endrin ketone	53494-70-5	~	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
gamma-BHC (Lindane)	58-89-9	0.1	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Heptachlor	76-44-8	0.042	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Heptachlor epoxide	1024-57-3	~	0.00206	U	0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
Methoxychlor	72-43-5	~	0.0103	U	0.0104	U	0.0101	U	0.00994	U	0.0112	U	0.00976	U
Total PCBs	1336-36-3	0.1	0.00851	U	0.00856	U	0.00832	U	0.00819	U	0.00921	U	0.00805	U
Toxaphene	8001-35-2	~	0.104	U	0.105	U	0.102	U	0.101	U	0.113	U	0.0988	U
Metals, Target Analyte		mg/kg dry	mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
Aluminum	7429-90-5	~	5500		11000		5440		6070		4890		7840	
Antimony	7440-36-0	~	47.4		0.277	U	11.9		0.265	U	0.298	U	0.260	U
Arsenic	7440-38-2	13	22.6		3.23		18.1		1.22		5.95		1.87	
Barium	7440-39-3	350	469		91.7		205		28.6		94.1		27.5	
Beryllium	7440-41-7	7.2	0.125	U	0.126	U	0.122	U	0.121	U	0.135	U	0.118	U
Cadmium	7440-43-9	2.5	3.69		0.126	U	6.18		0.121	U	0.135	U	0.118	U
Calcium	7440-70-2	~	3840		1670		14500		1450		5930		872	
Chromium	7440-47-3	~	20.9		16.4		17.1		12.0		9.51		15.3	
Cobalt	7440-48-4	~	7.42		6.19		6.21		6.68		6.63		5.10	
Copper	7440-50-8	50	615		20.3		2880	E	11.7		38.2		12.4	
Iron	7439-89-6	~	30700	E	18800		23400		18300		16900		16700	
Lead	7439-92-1	63	3700		88.2		1530		4.66		107		6.72	
Magnesium	7439-95-4	~	850		1990		1550		1470		851		1770	
Manganese	7439-96-5	1600	288		376		276		295		171		118	
Nickel	7440-02-0	30	28.4		15.3		27.5		13.1		16.9		13.2	
Potassium	7440-09-7	~	597		812		649		669		616		824	
Selenium	7782-49-2	3.9	4.19		1.54		2.95		2.35		2.67		1.53	
Silver	7440-22-4	2	0.125	U	0.126	U	0.122	U	0.121	U	0.135	U	0.118	U
Sodium	7440-23-5	~	274		189		271		139		280		134	
Thallium	7440-28-0	~	0.400	U	0.403	U	0.391	U	0.386	U	0.433	U	0.379	U
Vanadium	7440-62-2	~	50.8		22.9		19.0		21.1		21.1		24.9	
Zinc	7440-66-6	109	1450	E	74.5		4890	E	24.6		91.9		105	
Mercury by 7470/7471		mg/kg dry	mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
Mercury	7439-97-6	0.18	0.0413	U	0.0415	U	0.0404	U	0.0398	U	0.0447	U	0.0390	U
Total Solids		%	%		%		%		%		%		%	
% Solids	solids	~	79.9		79.5		81.8		83.0		73.8		84.5	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

B=analyte found in the analysis batch blank

D=result is from an analysis that required a dilution

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

~=this indicates that no regulatory limit has been established for this analyte

DISCLAIMER:

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SampleID YorkID Sampling Date DilutionFactor ClientMatrix RptUnits		NYSDEC TOGS Standards and Guidance Values - GA Water ug/L	GW-1 13G0148-01 7/2/2013 9:00:00 AM 1 Water ug/L		GW-2 13G0148-02 7/2/2013 10:30:00 AM 1 Water ug/L		GW-3 13G0148-03 7/2/2013 1:00:00 PM 1 Water ug/L	
Compound	**CASNumber**		**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Semi-Volatiles, EPA TCL List		ug/L	ug/L		ug/L		ug/L	
1,2,4-Trichlorobenzene	120-82-1	5	2.53	U	2.60	U	2.99	U
1,2-Dichlorobenzene	95-50-1	3	2.55	U	2.62	U	3.02	U
1,3-Dichlorobenzene	541-73-1	3	2.68	U	2.75	U	3.16	U
1,4-Dichlorobenzene	106-46-7	3	2.27	U	2.33	U	2.68	U
2,4,5-Trichlorophenol	95-95-4	1	1.96	U	2.01	U	2.32	U
2,4,6-Trichlorophenol	88-06-2	1	1.79	U	1.84	U	2.12	U
2,4-Dichlorophenol	120-83-2	5	1.94	U	1.99	U	2.29	U
2,4-Dimethylphenol	105-67-9	50	1.64	U	1.68	U	1.94	U
2,4-Dinitrophenol	51-28-5	10	2.31	U	2.37	U	2.73	U
2,4-Dinitrotoluene	121-14-2	5	1.65	U	1.69	U	1.95	U
2,6-Dinitrotoluene	606-20-2	5	1.65	U	1.69	U	1.95	U
2-Chloronaphthalene	91-58-7	10	2.26	U	2.32	U	2.67	U
2-Chlorophenol	95-57-8	1	1.84	U	1.88	U	2.17	U
2-Methylnaphthalene	91-57-6	~	2.83	U	2.91	U	3.35	U
2-Methylphenol	95-48-7	1	1.19	U	1.22	U	1.41	U
2-Nitroaniline	88-74-4	5	1.72	U	1.77	U	2.04	U
2-Nitrophenol	88-75-5	1	2.42	U	2.48	U	2.86	U
3,3'-Dichlorobenzidine	91-94-1	5	1.30	U	1.34	U	1.54	U
3- & 4-Methylphenols	65794-96-9	~	1.15	U	1.18	U	1.36	U
3-Nitroaniline	99-09-2	5	1.72	U	1.77	U	2.04	U
4,6-Dinitro-2-methylphenol	534-52-1	~	1.66	U	1.71	U	1.96	U
4-Bromophenyl phenyl ether	101-55-3	~	1.36	U	1.40	U	1.61	U
4-Chloro-3-methylphenol	59-50-7	1	1.94	U	1.99	U	2.29	U
4-Chloroaniline	106-47-8	5	3.06	U	3.14	U	3.61	U
4-Chlorophenyl phenyl ether	7005-72-3	~	2.51	U	2.58	U	2.97	U
4-Nitroaniline	100-01-6	5	2.75	U	2.82	U	3.25	U
4-Nitrophenol	100-02-7	1	1.70	U	1.75	U	2.01	U
Acenaphthene	83-32-9	20	1.82	U	1.86	U	2.15	U
Acenaphthylene	208-96-8	~	1.78	U	1.83	U	2.11	U
Anthracene	120-12-7	50	1.22	U	1.25	U	1.44	U
Benzo(a)anthracene	56-55-3	0.002	1.34	U	1.38	U	1.59	U
Benzo(a)pyrene	50-32-8	0.002	1.33	U	1.37	U	1.58	U
Benzo(b)fluoranthene	205-99-2	0.002	1.45	U	1.48	U	1.71	U
Benzo(g,h,i)perylene	191-24-2	~	1.75	U	1.80	U	2.07	U
Benzo(k)fluoranthene	207-08-9	0.002	1.88	U	1.93	U	2.22	U
Benzoic acid	65-85-0	~	8.92	U	9.16	U	10.5	U
Benzyl alcohol	100-51-6	~	1.49	U	1.53	U	1.76	U
Benzyl butyl phthalate	85-68-7	50	0.874	U	0.897	U	1.03	U
Bis(2-chloroethoxy)methane	111-91-1	5	1.82	U	1.86	U	2.15	U
Bis(2-chloroethyl)ether	111-44-4	1	1.54	U	1.58	U	1.82	U
Bis(2-chloroisopropyl)ether	108-60-1	5	3.07	U	3.15	U	3.62	U
Bis(2-ethylhexyl)phthalate	117-81-7	5	4.90	U	5.03	U	5.79	U
Chrysene	218-01-9	0.002	1.51	U	1.55	U	1.78	U
Di-n-butyl phthalate	84-74-2	50	2.10	U	2.16	U	2.48	U
Di-n-octyl phthalate	117-84-0	50	1.15	U	1.18	U	1.36	U
Dibenzo(a,h)anthracene	53-70-3	~	1.60	U	1.64	U	1.89	U
Dibenzofuran	132-64-9	~	2.47	U	2.54	U	2.92	U
Diethyl phthalate	84-66-2	50	2.63	U	2.69	U	3.10	U
Dimethyl phthalate	131-11-3	50	1.96	U	2.01	U	2.32	U
Fluoranthene	206-44-0	50	1.27	U	1.31	U	1.50	U
Fluorene	86-73-7	50	1.88	U	1.93	U	2.22	U
Hexachlorobenzene	118-74-1	0.04	1.30	U	1.34	U	1.54	U

Hexachlorobutadiene	87-68-3	0.5	2.86	U	2.94	U	3.38	U
Hexachlorocyclopentadiene	77-47-4	5	2.59	U	2.66	U	3.07	U
Hexachloroethane	67-72-1	5	3.12	U	3.20	U	3.68	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	1.74	U	1.79	U	2.06	U
Isophorone	78-59-1	50	2.75	U	2.82	U	3.25	U
N-nitroso-di-n-propylamine	621-64-7	~	2.63	U	2.69	U	3.10	U
N-Nitrosodiphenylamine	86-30-6	50	5.13	U	5.26	U	6.06	U
Naphthalene	91-20-3	10	2.04	U	2.09	U	2.41	U
Nitrobenzene	98-95-3	0.4	1.73	U	1.78	U	2.05	U
Pentachlorophenol	87-86-5	1	1.49	U	1.53	U	1.76	U
Phenanthrene	85-01-8	50	1.41	U	1.44	U	1.66	U
Phenol	108-95-2	1	1.13	U	1.16	U	1.33	U
Pyrene	129-00-0	50	1.77	U	1.82	U	2.10	U
Metals, Target Analyte		ug/L	ug/L		ug/L		ug/L	
Aluminum	7429-90-5	~	294		1020		250	
Antimony	7440-36-0	3	3	U	3	J	3	U
Arsenic	7440-38-2	25	4		14		9	
Barium	7440-39-3	1000	140		228		136	
Beryllium	7440-41-7	3	1	U	1	U	1	U
Cadmium	7440-43-9	5	2	U	2	U	2	U
Calcium	7440-70-2	~	106000		109000		126000	
Chromium	7440-47-3	50	2	U	2	J	2	U
Cobalt	7440-48-4	~	2	J	2	J	2	J
Copper	7440-50-8	200	2	J	65		2	J
Iron	7439-89-6	~	10200		762		4730	
Lead	7439-92-1	25	22		144		21	
Magnesium	7439-95-4	35000	11600		7660		16200	
Manganese	7439-96-5	300	318		380		531	
Nickel	7440-02-0	100	1	J	1	J	1	J
Potassium	7440-09-7	~	23600		20300		36100	
Selenium	7782-49-2	10	7	U	7	U	7	U
Silver	7440-22-4	50	2	U	2	U	2	U
Sodium	7440-23-5	20000	14900		16200		53000	
Thallium	7440-28-0	~	3	U	3	U	3	U
Vanadium	7440-62-2	~	2	J	12		2	J
Zinc	7440-66-6	2000	25		308		29	
Metals, Dissolved - Target Analyte (TAL)		ug/L	ug/L		ug/L		ug/L	
Aluminum	7429-90-5	~	10	U	10	U	10	U
Antimony	7440-36-0	3	3	U	3	J	3	U
Arsenic	7440-38-2	25	4	U	4	U	4	U
Barium	7440-39-3	1000	121		142		117	
Beryllium	7440-41-7	3	1	U	1	U	1	U
Cadmium	7440-43-9	5	2	U	2	U	2	U
Calcium	7440-70-2	~	108000		111000		128000	
Chromium	7440-47-3	50	2	U	2	U	2	U
Cobalt	7440-48-4	~	2	J	2	J	2	J
Copper	7440-50-8	200	2	U	2	U	2	U
Iron	7439-89-6	~	59		10	U	32	
Lead	7439-92-1	25	2	U	6		2	U
Magnesium	7439-95-4	35000	9340		8170		16800	
Manganese	7439-96-5	300	381		453		539	
Nickel	7440-02-0	100	1	J	1	J	1	J
Potassium	7440-09-7	~	19200		20000		38100	
Selenium	7782-49-2	10	10		7	J	12	
Silver	7440-22-4	50	2	U	2	U	2	U
Sodium	7440-23-5	20000	12600		16200		55800	
Thallium	7440-28-0	~	3	U	3	U	3	U
Vanadium	7440-62-2	~	2	U	2	J	2	U
Zinc	7440-66-6	2000	2	J	158		2	J
Mercury by 7470/7471		ug/L	ug/L		ug/L		ug/L	

Mercury	7439-97-6	0.7	0.2	U	0.5		0.2	U
Mercury, Dissolved		ug/L	ug/L		ug/L		ug/L	
Mercury	7439-97-6	0.7	0.03900	U	0.03900	U	0.03900	U
NOTES:								
Any Regulatory Exceedences are color coded by Regulation								
Q is the Qualifier Column with definitions as follows:								
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimatec								
U=analyte not detected at or above the level indicated								
~=this indicates that no regulatory limit has been established for this analyte								
DISCLAIMER:								
York Analytical Laboratories, Inc. is providing this information as a convenience to you. York makes no representations or warranties that these data are accurate, complete or represent the latest regulatory authority limits or analytes. York is not responsible for any errors or omissions in these specific regulations. Your use of these data constitute your understanding of these limitations and you agree to hold York harmless from any and all action that may arise from use of said information. As regulations change often, we encourage the user to review the regulatory limits and lists of interest to confirm these data.								

Table 3.0

Compounds	NYSDOH Maximum Sub-Slab Value (ug/m^3)	SV-1	SV-2	SV-3
PCE	100	<0.19	<0.18	0.28
TCE	5	<0.095	<0.091	<0.11

Table 4: List of Proposed SCOs/SCGs	
SVOCs	250 ppm
Lead	1,000 ppm
Barium	600 ppm
Arsenic	16 ppm

TABLE 5

Disposal Facility	**Waste Type**	**Estimated Quantities**
Permitted facility to be named	Historic Fill from rear yard 2.00' cut	~282.9 tons
Permitted facility to be named	Historic Fill from interior 2.02' cut	~470 tons
Permitted facility to be named	Historic Fill from footings	~162.9 tons
Permitted facility to be named	Historic Fill from front 6.50' alcove cuts	~65 tons
Permitted facility to be named	Historic Fill from front yard 2.00' cut	~75 tons

Assumes 1.5 tons per cubic yard of material

TABLE 6

Facility for Backfill Materials	**Material Type**	**Estimated Quantities**
Facility to be named	Certified Clean Soil	~313 cubic yards

Appendix A

Citizen Participation Plan

APPENDIX A

CITIZEN PARTICIPATION PLAN

The NYC Office of Environmental Remediation and Laurel Environmental Associates, Ltd have established this Citizen Participation Plan because the opportunity for citizen participation is an important component of the NYC Voluntary Cleanup Program. This Citizen Participation Plan describes how information about the project will be disseminated to the Community during the remedial process. As part of its obligations under the NYC VCP, Laurel Environmental Associates, Ltd will maintain a repository for project documents and provide public notice at specified times throughout the remedial program. This Plan also takes into account potential environmental justice concerns in the community that surrounds the project Site. Under this Citizen Participation Plan, project documents and work plans are made available to the public in a timely manner. Public comment on work plans is strongly encouraged during public comment periods. Work plans are not approved by the NYC Office of Environmental Remediation (OER) until public comment periods have expired and all comments are formally reviewed. An explanation of cleanup plans in the form of a public meeting or informational session is available upon request to OER's project manager assigned to this Site, Rebecca Bub, who can be contacted about these issues or any others questions, comments or concerns that arise during the remedial process at (212) 788-8841

Project Contact List. OER has established a Site Contact List for this project to provide public notices in the form of fact sheets to interested members of the Community. Communications will include updates on important information relating to the progress of the cleanup program at the Site as well as to request public comments on the cleanup plan. The Project Contact List includes owners and occupants of adjacent buildings and homes, principal administrators of nearby schools, hospitals and day care centers, the public water supplier that serves the area, established document repositories, the representative Community Board, City Council members, other elected representatives and any local Voluntary Opportunity Area (BOA) grantee organizations. Any member of the public or organization will be added to the Site Contact List on request. A copy of the Site Contact List is maintained by OER's project manager. If you would like to be added to the Project Contact List, contact NYC OER at (212) 788-8841 or by email at Voluntarys@cityhall.nyc.gov.

Repositories. A document repository is maintained in the nearest public library that maintains evening and weekend hours. This document repository is intended to house, for community review, all principal documents generated during the cleanup program including Remedial Investigation plans and reports, Remedial Action work plans and reports, and all public notices and fact sheets produced during the lifetime of the remedial project. Laurel Environmental Associates, Ltd will inspect the repositories to ensure that they are fully populated with project information. The repository for this project is:

Carroll Garden branch of the Brooklyn Public Library

396 Clinton Street, Brooklyn, New York 11231

(718) 596-6972

Hours

Mon	10:00 AM - 6:00 PM
Tue	1:00 PM - 8:00 PM
Wed	10:00 AM - 8:00 PM
Thu	10:00 AM - 6:00 PM
Fri	10:00 AM - 6:00 PM
Sat	10:00 AM - 5:00 PM
Sun	closed

Digital Documentation. NYC OER strongly encourages the use of digital documents in repositories as a means of minimizing paper use while also increasing convenience in access and ease of use.

Identify Issues of Public Concern.

Laurel Environmental Associates, Ltd. is required to identify whether there are specific issues of concern to stakeholders proximate to the project site. Such issues include but are not limited to interests of Environmental Justice communities. Laurel Environmental Associates, Ltd. should list any site-specific issues of public concern and the method that they will be used resolved them. If needed, contact OER for additional guidance on how to identify issues of public concern.

Public Notice and Public Comment. Public notice to all members of the Project Contact List is required at three major steps during the performance of the cleanup program (listed below) and at other points that may be required by OER. Notices will include Fact Sheets with descriptive project summaries, updates on recent and upcoming project activities, repository information, and important phone and email contact information. All notices will be prepared by Laurel Environmental Associates, Ltd, reviewed and approved by OER prior to distribution and mailed by Laurel Environmental Associates, Ltd. Public comment is solicited in public notices for all work plans developed under the NYC Voluntary Cleanup Program. Final review of all work plans by OER will consider all public comments. Approval will not be granted until the public comment period has been completed.

Citizen Participation Milestones. Public notice and public comment activities occur at several steps during a typical NYC VCP project. See flow chart on the following page, which identifies when during the NYC VCP public notices are issued: These steps include:

- **Public Notice of the availability of the Remedial Investigation Report and Remedial Action Work Plan and a 30-day public comment period on the Remedial Action Work Plan.**

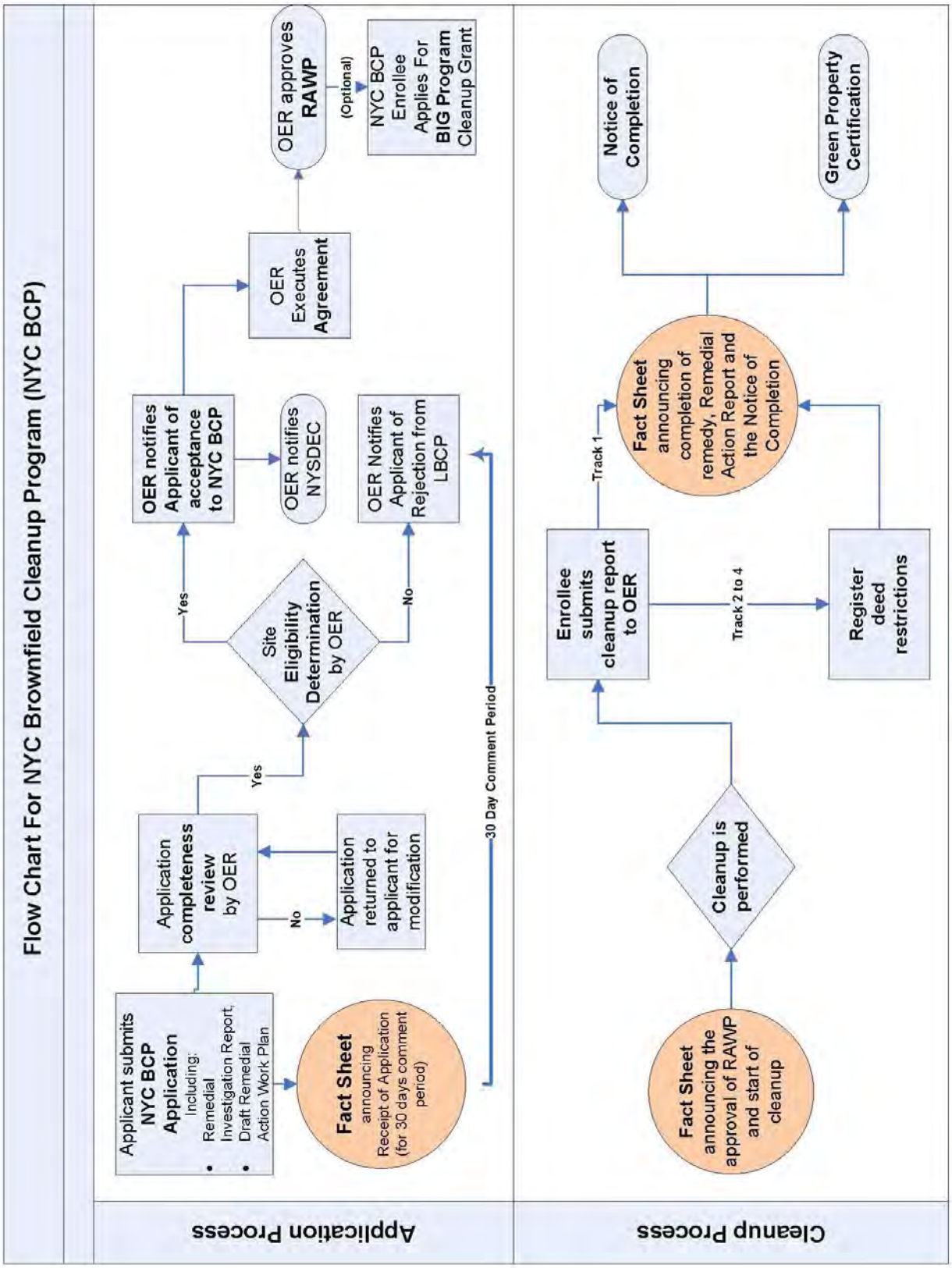
  Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the availability of the Remedial Investigation Report and Remedial Action Work Plan and the initiation of a 30-day public comment period on the Remedial Action Work Plan. The Fact Sheet summarizes the findings of the RIR and provides details of the RAWP. The public comment period will be extended an additional 15 days upon public request. A public meeting or informational session will be conducted by OER upon request.

- **Public Notice announcing the approval of the RAWP and the start of remediation**

  Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the approval of the RAWP and the start of remediation.

- **Public Notice announcing the completion of remediation, designation of Institutional and Engineering Controls and issuance of the Notice of Completion**

Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the completion of remediation, providing a list of all Institutional and Engineering Controls implemented for to the Site and announcing the issuance of the Notice of Completion.



Appendix B

Sustainability Statement

APPENDIX B

SUSTAINABILITY STATEMENT

This Sustainability Statement documents sustainable activities and green remediation efforts planned under this remedial action.

Reuse of Clean, Recyclable Materials. Reuse of clean, locally-derived recyclable materials reduces consumption of non-renewable virgin resources and can provide energy savings and greenhouse gas reduction.

An estimate of the quantity (in tons) of clean, non-virgin materials (reported by type of material) reused under this plan will be quantified and reported in the RAR.

Reduce Consumption of Virgin and Non-Renewable Resources. Reduced consumption of virgin and non-renewable resources lowers the overall environmental impact of the project on the region by conserving these resources.

An estimate of the quantity (in tons) of virgin and non-renewable resources, the use of which will be avoided under this plan, will be quantified and reported in the RAR.

Reduced Energy Consumption and Promotion of Greater Energy Efficiency. Reduced energy consumption lowers greenhouse gas emissions, improves local air quality, lessens in-city power generation requirements, can lower traffic congestion, and provides substantial cost savings.

Best efforts will be made to quantify energy efficiencies achieved during the remediation and will be reported in the Remedial Action Report (RAR). Where energy savings cannot be easily quantified, a gross indicator of the amount of energy saved or the means by which energy savings was achieved will be reported.

Conversion to Clean Fuels. Use of clean fuel improves NYC's air quality by reducing harmful emissions.

An estimate of the volume of clean fuels used during remedial activities will be quantified and reported in the RAR.

Recontamination Control. Recontamination after cleanup and redevelopment is completed undermines the value of work performed, may result in a property that is less protective of public health or the environment, and may necessitate additional cleanup work later or impede future redevelopment. Recontamination can arise from future releases that occur within the property or by influx of contamination from off-Site.

A vapor barrier on-site will reduce the likelihood of re-contamination at the site. An estimate of the area of the Site that utilizes recontamination controls under this plan will be reported in the RAR in square feet.

Storm-water Retention. Storm-water retention improves water quality by lowering the rate of combined storm-water and sewer discharges to NYC's sewage treatment plants during periods of precipitation, and reduces the volume of untreated influent to local surface waters.

Storm-water volume retention is a part of the remediation and redevelopment at this site. Special care to keep all storm water on-site during the remediation will be taken. An estimate of the enhanced storm-water retention capability of the redevelopment project will be included in the RAR.

Linkage with Green Building. Green buildings provide a multitude of benefits to the city across a broad range of areas, such as reduction of energy consumption, conservation of resources, and reduction in toxic materials use.

The number of Green Buildings that are associated with this brownfield redevelopment property will be reported in the RAR. The total square footage of green building space created as a function of this brownfield redevelopment will be quantified for residential uses. The developer plans to construct a building that will conform to the German Passivhaus Standards.

Paperless Voluntary Cleanup Program. Laurel Environmental Associates, Ltd is participating in OER's Paperless Voluntary Cleanup Program. Under this program, submission of electronic documents will replace submission of hard copies for the review of project documents, communications and milestone reports.

Low-Energy Project Management Program. Laurel Environmental Associates, Ltd is participating in OER's low-energy project management program. Under this program, whenever

possible, meetings are held using remote communication technologies, such as videoconferencing and teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation.

Trees and Plantings. Trees and other plantings provide habitat and add to NYC's environmental quality in a wide variety of ways. Native plant species and native habitat provide optimal support to local fauna, promote local biodiversity, and require less maintenance.

The design of the proposed building includes the protection of existing trees, using temporary tree guards, tree pits, and the removal and planting of trees within the guidelines New York City Department of Parks and Recreation Street Tree Standards. All necessary permits will be obtained for any removal, relocation, and planting, prior to commencement of work.

An estimate of the land area that will be vegetated, including the number of trees planted or preserved, will be reported in square feet in the RAR.

Appendix C

Soil/Materials Management Plan

APPENDIX C

SOIL/MATERIALS MANAGEMENT PLAN

1.1 SOIL SCREENING METHODS

Visual, olfactory and PID soil screening and assessment will be performed under the supervision of a Qualified Environmental Professional and will be reported in the RAR. Soil screening will be performed during invasive work performed during the remedy and development phases prior to issuance of the Notice of Completion.

1.2 STOCKPILE METHODS

Excavated soil from suspected areas of contamination (e.g., hot spots, USTs, drains, etc.) will be stockpiled separately and will be segregated from clean soil and construction materials. Stockpiles will be used only when necessary and will be removed as soon as practicable. While stockpiles are in place, they will be inspected daily, and before and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. Excavated soils will be stockpiled on, at minimum, double layers of 8-mil minimum sheeting, will be kept covered at all times with appropriately anchored plastic tarps, and will be routinely inspected. Broken or ripped tarps will be promptly replaced.

All stockpile activities will be compliant with applicable laws and regulations. Soil stockpile areas will be appropriately graded to control run-off in accordance with applicable laws and regulations. Stockpiles of excavated soils and other materials shall be located at least of 50 feet from the property boundaries, where possible. Hay bales or equivalent will surround soil stockpiles except for areas where access by equipment is required. Silt fencing and hay bales will be used as needed near catch basins, surface waters and other discharge points.

1.3 CHARACTERIZATION OF EXCAVATED MATERIALS

Soil/fill or other excavated media that is transported off-Site for disposal will be sampled in a manner required by the receiving facility, and in compliance with applicable laws and regulations. Soils proposed for reuse on-Site will be managed as defined in this plan.

1.4 MATERIALS EXCAVATION, LOAD-OUT AND DEPARTURE

The PE/QEP overseeing the remedial action will:

- oversee remedial work and the excavation and load-out of excavated material;
- ensure that there is a party responsible for the safe execution of invasive and other work performed under this work plan;
- ensure that Site development activities and development-related grading cuts will not interfere with, or otherwise impair or compromise the remedial activities proposed in this RAWP;
- ensure that the presence of utilities and easements on the Site has been investigated and that any identified risks from work proposed under this plan are properly addressed by appropriate parties;
- ensure that all loaded outbound trucks are inspected and cleaned if necessary before leaving the Site;
- ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during Site remediation.

Locations where vehicles exit the Site shall be inspected daily for evidence of soil tracking off premises. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

Open and uncontrolled mechanical processing of historical fill and contaminated soil on-Site will not be performed without prior OER approval.

1.5 OFF-SITE MATERIALS TRANSPORT

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. If loads contain wet material capable of causing leakage from trucks, truck liners will be used. Queuing of trucks will be performed on-Site, when possible in order to minimize off Site disturbance. Off-Site queuing will be minimized.

Outbound truck transport routes are shown in Figure 6.0. This routing takes into account the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of mapped truck routes; (c) minimizing off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with Site materials will travel from the Site using these truck routes. Trucks will not stop or idle in the neighborhood after leaving the project Site.

1.6 MATERIALS DISPOSAL OFF-SITE

The following documentation will be established and reported by the PE/QEP for each disposal destination used in this project to document that the disposal of regulated material exported from the Site conforms with applicable laws and regulations: (1) a letter from the PE/QEP or Enrollee to each disposal facility describing the material to be disposed and requesting written acceptance of the material. This letter will state that material to be disposed is regulated material generated at an environmental remediation Site in Brooklyn, New York under a governmental remediation program. The letter will provide the project identity and the name and phone number of the PE/QEP or Enrollee. The letter will include as an attachment a summary of all chemical data for the material being transported; and (2) a letter from each disposal facility stating it is in receipt of the correspondence (1, above) and is approved to accept the material. These documents will be included in the RAR.

The Remedial Action Report will include an itemized account of the destination of all material removed from the Site during this remedial action. Documentation associated with disposal of all material will include records and approvals for receipt of the material. This information will be presented in the RAR.

All impacted soil/fill or other waste excavated and removed from the Site will be managed as regulated material and will be disposed in accordance with applicable laws and regulations. Historic fill and contaminated soils taken off-Site will be handled as solid waste and will not be disposed at a Part 360-16 Registration Facility (also known as a Soil Recycling Facility).

Waste characterization will be performed for off-Site disposal in a manner required by the receiving facility and in conformance with its applicable permits. Waste characterization

sampling and analytical methods, sampling frequency, analytical results and QA/QC will be reported in the RAR. A manifest system for off-Site transportation of exported materials will be employed. Manifest information will be reported in the RAR. Hazardous wastes derived from on-Site will be stored, transported, and disposed of in compliance with applicable laws and regulations.

1.7 MATERIALS REUSE ON-SITE

No materials are proposed to be re-used on site.

1.8 DEMARCATION

After completion of hotspot removal and any other invasive remedial activities, and prior to backfilling, the top of the residual soil/fill will be defined by one of three methods: (1) placement of a demarcation layer. The demarcation layer will consist of geosynthetic fencing or equivalent material to be placed on the surface of residual soil/fill to provide an observable reference layer. A description or map of the approximate depth of the demarcation layer will be provided in the SMP; or (2) a land survey of the top elevation of residual soil/fill before the placement of cover soils, pavement and associated sub-soils, or other materials or structures or, (3) all materials beneath the approved cover will be considered impacted and subject to site management after the remedy is complete. Demarcation may be established by one or any combination of these three methods. As appropriate, a map showing the method of demarcation for the Site and all associated documentation will be presented in the RAR.

This demarcation will constitute the top of the site management horizon. Materials within this horizon require adherence to special conditions during future invasive activities as defined in the Site Management Plan.

1.9 IMPORT OF BACKFILL SOIL FROM OFF-SITE SOURCES

This Section presents the requirements for imported fill materials to be used below the cover layer and within the clean soil cover layer. All imported soils will meet OER-approved backfill and cover soil quality objectives for this Site. The backfill and cover soil quality objectives are listed in Table 1.0, Residential Use SCOs.

A process will be established to evaluate sources of backfill and cover soil to be imported to the Site, and will include an examination of source location, current and historical use(s), and any applicable documentation. Material from industrial sites, spill sites, environmental remediation sites or other potentially contaminated sites will not be imported to the Site.

The following potential sources may be used pending attainment of backfill and cover soil quality objectives:

- Clean soil from construction projects at non-industrial sites in compliance with applicable laws and regulations;
- Clean soil from roadway or other transportation-related projects in compliance with applicable laws and regulations;
- Clean recycled concrete aggregate (RCA) from facilities permitted or registered by the regulations of NYS DEC.

All materials received for import to the Site will be approved by a PE/QEP and will be in compliance with provisions in this RAWP. The RAR will report the source of the fill, evidence that an inspection was performed on the source, chemical sampling results, frequency of testing, and a Site map indicating the locations where backfill or soil cover was placed.

Source Screening and Testing

Inspection of imported fill material will include visual, olfactory and PID screening for evidence of contamination. Materials imported to the Site will be subject to inspection, as follows:

- Trucks with imported fill material will be in compliance with applicable laws and regulations and will enter the Site at designated locations;
- The PE/QEP is responsible to ensure that every truck load of imported material is inspected for evidence of contamination; and
- Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables or foreign matter.

Composite samples of imported material will be taken at a minimum frequency of one sample for every 500 cubic yards of material. Once it is determined that the fill material meets imported backfill or cover soil chemical requirements and is non-hazardous, and lacks petroleum contamination, the material will be loaded onto trucks for delivery to the Site.

Recycled concrete aggregate (RCA) will be imported from facilities permitted or registered by NYSDEC. Facilities will be identified in the RAR. A PE/QEP is responsible to ensure that the facility is compliant with 6NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA imported from compliant facilities will not require additional testing, unless required by NYSDEC under its terms for operation of the facility. RCA imported to the Site must be derived from recognizable and uncontaminated concrete. RCA material is not acceptable for, and will not be used as cover material.

1.10 FLUIDS MANAGEMENT

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported and disposed in accordance with applicable laws and regulations. Liquids discharged into the New York City sewer system will receive prior approval by New York City Department of Environmental Protection (NYC DEP). The NYC DEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York Chapter 19. Discharge to the New York City sewer system will require an authorization and sampling data demonstrating that the groundwater meets the City's discharge criteria. The dewatering fluid will be pretreated as necessary to meet the NYC DEP discharge criteria. If discharge to the City sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-Site treatment facility.

Discharge of water generated during remedial construction to surface waters (i.e. a stream or river) is prohibited without a SPDES permit issued by New York State Department of Environmental Conservation.

1.11 STORM-WATER POLLUTION PREVENTION

Applicable laws and regulations pertaining to storm-water pollution prevention will be addressed during the remedial program. Erosion and sediment control measures identified in this

RAWP (silt fences and barriers, and hay bale checks) will be installed around the entire perimeter of the remedial construction area and inspected once a week and after every storm event to ensure that they are operating appropriately. Discharge locations will be inspected to determine whether erosion control measures are effective in preventing significant impacts to receptors. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. Undercutting or erosion of the silt fence toe anchor will be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

1.12 CONTINGENCY PLAN

This contingency plan is developed for the remedial construction to address the discovery of unknown structures or contaminated media during excavation. Identification of unknown contamination source areas during invasive Site work will be promptly communicated to OER's Project Manager. Petroleum spills will be reported to the NYS DEC Spill Hotline. These findings will be included in the daily report. If previously unidentified contaminant sources are found during on-Site remedial excavation or development-related excavation, sampling will be performed on contaminated source material and surrounding soils and reported to OER. Chemical analytical testing will be performed for TAL metals, TCL volatiles and semi-volatiles, TCL pesticides and PCBs, as appropriate.

1.13 ODOR, DUST AND NUISANCE CONTROL

Odor Control

All necessary means will be employed to prevent on- and off-Site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; and (e) use of chemical odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. OER will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEP's certifying the Remedial Action Report.

Dust Control

Dust management during invasive on-Site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas and stockpiles.
- Use of properly anchored tarps to cover stockpiles.
- Exercise extra care during dry and high-wind periods.
- Use of gravel or recycled concrete aggregate on egress and other roadways to provide a clean and dust-free road surface.

This dust control plan is capable of controlling emissions of dust. If nuisance dust emissions are identified, work will be halted and the source of dusts will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. OER will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the responsibility of the PE/QEP's responsible for certifying the Remedial Action Report.

Other Nuisances

Noise control will be exercised during the remedial program. All remedial work will conform, at a minimum, to NYC noise control standards.

Rodent control will be provided, during Site clearing and grubbing, and during the remedial program, as necessary, to prevent nuisances.

Appendix D

Construction Health and Safety Plan

CONSTRUCTION
HEALTH AND SAFETY PLAN

VACANT BROWNFIELD SITE
NYCOER Number: 13EH-A491K
415 Manhattan Avenue, Brooklyn, NY

March 2014
***LEA* PROJECT # 12-409**

Scott A. Yanuck
Health and Safety Officer

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HEALTH AND SAFETY PLAN
FOR USE DURING REMEDIAL ACTION AND CONSTRUCTION

1.0 PURPOSE

The purpose of this Construction Health and Safety Plan (CHASP) is to assign responsibilities, establish minimum personnel protection standards and operating procedures and provide for contingencies that may arise while operations are being performed at the subject site, 415 Manhattan Avenue Brooklyn, New York. The proposed Remedial Action will include the removal of historic fill from the site.

Laurel Environmental Associates, Ltd. (LEA) and it subcontractors will be responsible for providing materials, equipment and labor required by the CHASP. The protocols of the CHASP will be followed by all personnel involved in the work, including employees and agents of Contractors, Subcontractors and Owner. Mr. Thomas Johansen is the Project Manager, Scott A. Yanuck is the Health and Safety Officer, and Carla Sullivan is the Quality Assurance/Quality Control Officer for the project.

This CHASP establishes the minimum level of personnel protection. Additional measures will be implemented if necessary to protect personnel involved in the work and the public at large.

Conditions at the site are not expected to warrant either Level B or Level C protection during the investigation based on known site conditions. Regardless, all workers present on site will be familiar with proper protection procedures and the CHASP. All personnel scheduled to work at the site are 40-hour OSHA HAZWOPER CFR 1910.120 trained, with 8-hour refreshers up to date.

Given the scope of the work, and the type of contaminants on-site, there is a low potential of the surrounding community being negatively impacted by activities which will be conducted during this investigation. ***Laurel Environmental Associates, Ltd.*** will take every possible step to avoid any type of negative impact.

The Site is currently a vacant fenced lot. Soils will be field screened with a Photoionization Detector (PID) to determine the presence of organic contamination. If an emergency occurs during the measures, which in any event may impact the surrounding community, all appropriate emergency resources listed under the Emergency Contingency Plan Section of this plan will be immediately notified.

2.0 HAZARD EVALUATION

Elevated levels of volatile organic compounds (VOCs) in the atmosphere are not expected to occur during on-site activities. However, the presence of VOCs will be evaluated using a Photoionization Detector (PID). Results from the air monitoring will determine if Level D personnel protection of workers is appropriate or a higher level of protection is required.

During all activities, ***LEA*** personnel will monitor the area around the excavation using a PID to ensure that the appropriate worker protection is maintained for the level of pollutants found. If air monitoring indicates contaminant concentrations pose a risk to workers, the area will be immediately evacuated. Guidelines that will be followed before continuing are noted in Table 1 on the following page. If conditions warrant, Level B and C protection will be worn.

Table 1
Atmospheric Hazard Guidelines

Hazard	Monitoring Equipment	Measured Level	Action
Explosive Atmosphere	Combustible Gas Indicator	<10% LEL	Continue investigation.
		10%-20% LEL	Continue on-site monitoring with extreme caution as higher levels are encountered.
		>20% LEL	Explosion hazard. Withdraw from area immediately.
Oxygen	Multi RAE	Oxygen conc.	
		<19.5%	Withdraw from area. NOTE: Combustible gas readings are not valid in atmosphere with oxygen levels of less than 19.5%
		19.5% - 23.5%	Continue investigation with caution.
		>23.5%	Fire hazard potential. Discontinue investigation. Withdraw from area.
Organic gases and vapors	PID	Background	Continue work
		5 ppm	Temporarily halt work until average readings drop below 5 ppm
		5 - 25 ppm	Halt work, identify and remedy or abate source Continue work once average readings drop below 5 ppm
		Above 15 ppm	Work must be shut down. Evaluate alternative approaches

Notes:
1. LEL = Lower Explosive Limit

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3.0 SITE CONTROL

3.1 Site Work Locations:

Activities involving soil, groundwater and soil vapor sampling will be performed within the fenced boundaries of the property. The work areas are the locations in which the actual activities will occur. Workers entering these areas are required to be protected as defined below. Only authorized personnel, including personnel conducting the work activities involved, and specialized personnel such as subcontractors engaged in well installation and operation of heavy equipment, will be allowed in the work areas. Within the work areas, the levels of protection will be determined based on the degree of hazard present, as detected by the measurements obtained with the PID, and/or other activity-specific monitoring equipment. As an engineering control, a regenerative air blower may be used to reduce the potential for dangerous concentrations of VOCs in the breathing zone near the excavation, if warranted.

3.2 Work Zones:

Work zones will be defined prior to the commencement of work activities. These work zones will limit equipment, operations and personnel in the areas as defined below:

Exclusion Zone - This shall include all areas where potential environmental monitoring has shown or is suspected that a potential chemical hazard may exist to workers. This will include down-wind locations. If a chemical hazard exists at downwind locations, the exclusion zone will be expanded as necessary. The level of PPE required in these areas shall be determined by the Site HSO after air monitoring and on-Site inspection has been conducted. The area shall be clearly delineated from the decontamination area. As work proceeds, the delineation boundary shall be relocated as necessary to prevent the accidental contamination of nearby people and equipment.

Contamination Reduction Zone - This zone will occur at the interface between the Exclusion Zone ("Hot Zone") and Support Zone ("Clean Zone") and shall provide a transfer of personnel and equipment to and from the Support Zone to the Exclusion Zone. This zone is for the decontamination of personnel and equipment prior to entering the Support Zone, and for the physical segregation of the Support Zone and Exclusion Zone. The contamination reduction zone will be placed along the front of the Site. Access to the Site by the public will be restricted during the Remedial Action and Construction.

Support Zone - This area is the remainder of the work Site and project Site. The support zone will be staged near company vehicles on Union Street. The function of the Support Zone includes:

A. An entry area for personnel, material and equipment to the Exclusion Zone of site operations through the Contamination Reduction Zone
B. An Exit for decontamination personnel, materials and equipment from the "Decon" area of Site operations
C. The Housing of Site special services
D. A storage area for clean safety and work equipment

Small decontamination areas may be set up adjacent to the work area to facilitate decontamination of equipment that is reused throughout the field activity.

3.3 Dust and Odors:

If during sampling, dust or odors emanating from contaminated soils are deemed excessive at adjoining properties and commercial businesses, the sampling process will include misting with water to keep dust levels to a minimum.

3.4 Security:

Periodic security patrols will be conducted to ensure that adequate security is being maintained. Only workers authorized by the field manager may be allowed to enter the Site. Warning signs will be posted to discourage entry by unauthorized personnel. The HSO will brief all visitors of all security and safety plans.

At the end of each work day, the site will be secured with a locked gate and 6 foot chain link fencing.

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3.5 Site Communications:

Communications on-Site will be conducted through verbal communications. When out of audible range, verbal communications may be assisted using mobile telephones and two-way radios.

4.0 PERSONAL PROTECTIVE EQUIPMENT

All on-site workers will be familiar with proper protection procedures and this Health and Safety Plan. Level D personal protective clothing will be worn at the outset.

As stated above Level B or C protection will be worn as required. General descriptions of Level C and B protection are presented in Tables 2 and 3 on the following page, respectively. If it is necessary to wear Level B or C protection, the work area shall be separated into three Zones: an Exclusion Zone, a Contamination Reduction Zone, and a Support Zone. No one but protected personnel shall be in the Exclusion and Contamination Reduction Zones. An entrance and exit point shall be designated and monitored to ensure that no unauthorized personnel enter the area. Everyone that enters the area shall log in the field note book with the length of time spent in the area and the task performed noted.

All workers shall wear gloves when handling soil/sludge and apparatus. Gloves shall also be worn while cleaning the sampling equipment.

If any personnel must be lowered into a confined spaces additional procedures must be followed. ***LEA*** will provide the confined space procedures. ***LEA*** will monitor the confined space prior to entry and complete the confined space permit. If needed, dilution or exhaust ventilation will be provided to lower contaminant levels.

All persons working in the confined space must have confined space awareness training and a confined space supervisor must be present. ***LEA*** will perform continuous air monitoring for oxygen, flammability and toxins. At a minimum, carbon monoxide and hydrogen sulfide will be monitored in addition to other site-specific chemicals determined to be a hazard. All personnel working in or monitoring the confined space activities must be properly OSHA confined space entry trained. An approved safety harness and tripod will be employed. Personnel at grade will be constantly monitoring the worker in the pool for signs of fatigue, heat stress or behavior change.

Table 2
LEVEL C PROTECTION

1. Full-face or half-mask, air purifying, canister equipped respirators (NIOSH approved) for those contaminants present.
2. Hooded chemical resistant clothing: (overalls; two-piece chemical-splash-suit; disposable chemical-resistant overalls).
3. Coveralls*
4. Gloves, outer, chemical-resistant
5. Gloves, inner, chemical-resistant
6. Boots (outer), chemical-resistant, steel toe and shank
7. Boot-covers, outer, chemical-resistant, (disposable)*
8. Hard hat
9. Escape mask*
10. Two-way radios (worn under outside protective clothing)
11. Face shield*

*Optional, as applicable.

Table 3
LEVEL B PROTECTION

1. Pressure-demand, full-faceplate self-contained breathing apparatus (SCBA), or pressure demand supplied air respirator with escape SCBA (NIOSH approved)
2. Hooded chemical-resistant clothing (overalls and long-sleeved shirts) jacket; coveralls; one or two-piece chemical-splash suit; disposable chemical-resistant overalls).
3. Coveralls*
4. Gloves, outer chemical-resistant
5. Gloves, inner, chemical-resistant.
6. Boots, outer, chemical resistant steel toe and shank
7. Boot-covers, outer, chemical-resistant (disposable)
8. Hard hat
9. Two-way radios (worn inside encapsulating suit)
10. Face shield*

* Optional, as applicable

5.0 PERSONNEL SAFETY/HYGIENE

The safety practices to be followed by all on-site personnel include:

1. If Level B or C protection must be worn, eating, drinking, chewing gum or tobacco, smoking or any practice that increases the probability of hand-to-mouth transfer and ingestion of materials is prohibited in the Exclusion and Contamination Reduction Zones. All workers must be trained, medically qualified and fit tested in the use of respirators.

2. Hands and face must be thoroughly washed before eating, drinking or any other personal hygiene activities.

3. No excessive facial hair, which interferes with a satisfactory fit of the mask to face seal, is allowed for personnel to wear respiratory protective equipment.

6.0 PERSONNEL TRAINING

At the start of the job before engaging in any work, all personnel will be briefed on the following:

1. The person in charge as safety officer
2. Boundaries, entry and exit point locations of the work zones, if established
3. Use of personnel protection equipment
4. Principles of personnel hygiene
5. Location of first-aid equipment
6. Evacuation procedures to be followed in case of emergencies
7. Heat stress symptoms. All personnel will be advised to watch for signs of heat stress.

New personnel will be briefed on the same points prior to starting work at the site.

7.0 DECONTAMINATION PROCEDURES

If Level B or C protection is worn, decontamination procedures shall be performed in the Contamination Reduction Zone. All disposable garments and spent cartridges/canisters from respiratory equipment will be stored, transported, and properly disposed of in DOT approved 55-gallon drums. Potentially contaminated equipment will be cleaned before leaving the site.

8.0 EMERGENCY CONTINGENCY PLAN

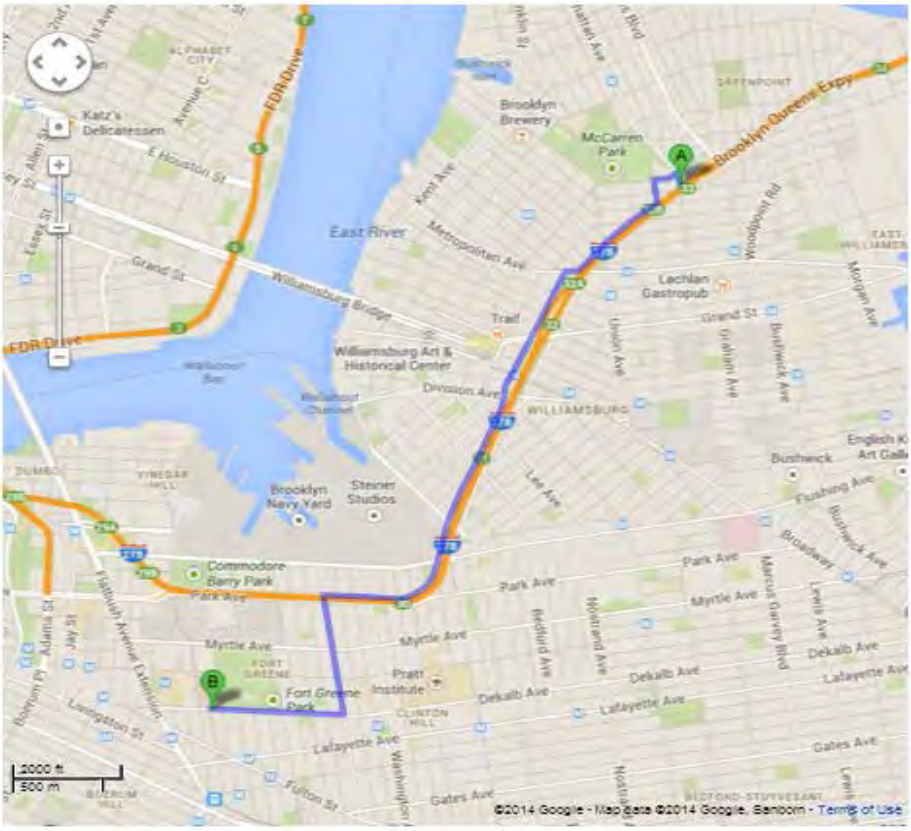
In the event of physical injury, the safety officer or any other qualified person will initiate first aid and, if necessary, call the ambulance. If a chemical exposure is encountered, a physician will be informed, as specifically as possible, of the chemical(s) to which the person had been exposed and the toxicological properties of the chemical(s).

In case of any emergency, the following resources might need to be contacted:

A. Local Resource
   Fire Department: **911**
   Police Department: **911**

B. Hazardous Waste Spills
   New York State Department of Environmental Conservation **1-800-457-7362**
   New York City Health, **212-788-5099**
   Laurel Environmental Associates, Ltd.: Nights and Weekend Emergencies **516-971-6332**

C. Hospital



A 415 Manhattan Ave, Brooklyn, NY 11222

	1. Head **north** on **Manhattan Ave** toward **Bayard St**	go 217 ft total 217 ft
↰	2. Turn left onto **Bayard St**	go 469 ft total 0.1 mi
↰	3. Take the 1st left onto **Leonard St**	go 495 ft total 0.2 mi
↱	4. Turn right onto **Meeker Ave** About 45 secs	go 0.4 mi total 0.6 mi
↱	5. Turn right onto **Metropolitan Ave**	go 230 ft total 0.6 mi
↰	6. Take the 1st left onto **Marcy Ave** About 1 min	go 0.5 mi total 1.2 mi
	7. Continue onto **Williamsburg St W** About 2 mins	go 0.7 mi total 1.9 mi
↗	8. Slight right onto **Williamsburg Pl**	go 0.2 mi total 2.0 mi
	9. Continue onto **Park Ave**	go 0.3 mi total 2.3 mi
↰	10. Turn left onto **Vanderbilt Ave** About 2 mins	go 0.5 mi total 2.8 mi
↱	11. Turn right at the 3rd cross street onto **Dekalb Ave** Destination will be on the right About 1 min	go 0.5 mi total 3.2 mi

B **The Brooklyn Hospital Center**
121 Dekalb Ave, New York, NY 11205

9.0 HEAT STRESS CASUALTY PREVENTION PLAN

A. Identification and Treatment

1) **HEAT EXHAUSTION**

Symptoms: Usually begins with muscular weakness, dizziness and a staggering gait. Vomiting is frequent. The bowels may move involuntarily. The victim is very pale, his/her skin is clammy and he/she may perspire profusely. The pulse is weak and fast, breathing is shallow. He/she may faint unless he/she lies down. This may pass, but sometimes it remains and death could occur.

First Aid: Immediately remove the victim to a shady or cool area with good air circulation. Remove all protective outerwear. Call a physician. Treat the victim for shock. (Make him lie down, raise his feet 6-12 inches, and keep him warm but loosen all clothing). If the victim is conscious, it may be helpful to give him sips of a salt water solution (1 teaspoon of salt to 1 glass of water). Transport victim to a medical facility.

2) **HEAT STROKE**

Symptoms: This is the most serious of heat casualties due to the fact that the body excessively overheats. Body temperatures are often are between 107°-110°F. There is often pain in the head, dizziness, nausea, oppression, and a dryness of the skin and mouth. Unconsciousness follows quickly and death is imminent if exposure continues. The attack will usually occur suddenly.

First Aid: Immediately evacuate the victim to a cool and shady area. Remove all protective outer wear and all personal clothing. Lay him on his back with the head and shoulders slightly elevated. It is imperative that the body temperature be lowered immediately. This can be accomplished by applying cold wet towels, ice bags, etc., to the head. Sponge off the bare skin with cool water or rubbing alcohol, if available, or even place him in a tub of cool water. The main objective is to cool him without chilling him. Give no stimulants. Transport the victim to a medical facility as soon as possible.

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B. **Prevention of Heat Stress**

1) One of the major causes of heat casualties is the depletion of body fluids. On-site there will be plenty of fluids available. Personnel should replace water and salts lost from perspiration. Salts can be replaced by either a 0.1% salt solution, more heavily salted foods, or commercial mixes such as Gatorade®.

2) A work schedule will be established so that the majority of the work day will be during the morning hours of the day before ambient air temperature levels reach their highs if high air temperatures are anticipated.

3) A work/rest guideline will be implemented for personnel required to wear Level B protection, if this situation arises. This guideline is as follows:

Ambient Temperatures	***Maximum Continuous Working Time***
Above 90°F	< 1 hour
80° - 90° F	1 hour
70 °- 80° F	2 hours
60 °- 70° F	3 hours
50 °- 60° F	4 hours
40° - 50°F	5 hours
30° - 40° F	6 hours
Below 30° F	8 hours

A sufficient period will be allowed for personnel to "cool down". This may require separate shifts of workers during operations.

LOG FOR ALL PERSONNEL ENTERING THE SUBJECT PROPERTY

SITE:

LOCATION:

The undersigned certify that they have read this Health and Safety Plan document, understand it, and will comply with its provisions.

Name (Please Print)	Affiliation	Date	Time
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

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Appendix E

Proposed Development Plans

NOT FOR CONSTRUCTION

415 MANHATTAN AVENUE BROOKLYN N.Y. 11229

OWNER:

Joe Cielepak

ARCHITECT

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EMAIL :: lkbureau@aol.com

Sheet List

Sheet Name	Sheet Number
COVER SHEET	A-000.00
GENERAL NOTES	A-001.00
GENERAL NOTES	A-002.00
GENERAL NOTES	A-003.00
GENERAL NOTES	A-004.00
HANDICAP NOTES I	A-005.00
HANDICAP NOTES II	A-006.00
HANDICAP NOTES III	A-007.00
HANDICAP NOTES IV	A-008.00
CELLAR/1ST FL. PLAN	A-100.00
2ND & 3RD/5TH FL. PLAN	A-101.00
4TH & 6TH FL. PLAN	A-102.00
ROOF & BULKHEAD	A-103.00
EAST/WEST ELEVATIONS	A-200.00
NORTH/SOUTH ELEVATIONS	A-201.00
BUILDING SECTIONS	A-300.00
BUILDING SECTIONS	A-301.00
BUILDING SECTIONS	A-302.00
BUILDING SECTIONS	A-303.00
CELLAR/1ST FL. R.C.P.	A-400.00
2ND-5TH & 6TH FL. R.C.P.	A-401.00
ROOF R.C.P.	A-402.00
INTERIOR ELEVATIONS (BATHROOM)	A-500.00
INTERIOR ELEVATIONS (KITCHEN)	A-501.00
STAIR A & ENTRANCE	A-502.00
INTERIOR STAIR PLANS&ELEVATIONS	A-503.00
ELEVATOR PLAN AND SECTION	A-504.00
DOOR SCHEDULE	A-600.00
DOOR DETAILS	A-601.00
DOOR DETAILS	A-602.00
DOOR DETAILS	A-603.00
WINDOW SCHEDULE	A-604.00
WALL TYPE SCHEDULE	A-605.00
FLOOR TYPE SCHEDULE	A-606.00
CELLAR &1ST FL. SLAB EDGE	A-700.00
2ND & 3RD-6TH FL. (TYP.) SLAB EDGE	A-701.00
ROOF SLAB EDGE	A-702.00

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Sheet Name	Sheet Number
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ROOFING DETAILS	A-801.00
ROOFING DETAILS	A-802.00
ROOFING DETAILS	A-803.00
ROOFING DETAILS	A-804.00
ROOFING DETAILS	A-805.00
ROOFING DETAILS	A-806.00
ROOFING DETAILS	A-807.00
ROOFING DETAILS	A-808.00

Sheet List Zoning

Sheet Name	Sheet Number
ZONING ANALYSIS	Z-001.00
MAPPING & CODE COMPLIANCE	Z-002.00
SECTION BLDG. CODE	Z-003.00
ZONING GROSS AREA COMPUTATION	Z-004.00
ZONING DEDUCTION AREA COMPUTATIONS	Z-005.00
ZONING & CODE COMPLIANCE CELLAR & 1ST FL. PLAN	Z-006.00
ZONING & CODE COMPLIANCE 2ND & 3RD/5TH FL. PLAN	Z-007.00
ZONING & CODE COMPLIANCE 4TH & 6TH FL. PLAN	Z-008.00
ZONING & CODE COMPLIANCE ROOF & BULKHEAD PLAN	Z-009.00

PROJECT ADDRESS
415 MANHATTAN AVENUE BROOKLYN N.Y. 11222

DOB APPLICATION NO.
Designer

PROJECT NUMBER:
32157

ADDRESS:
415 Manhattan Avenue, Brooklyn N.Y. 11211

BLOCK:	2723	C.B.:	301
LOT:	30	BIN#:	3067909
MAP:	13a		
ZONE:	M1-2/R6A,MX-8		
USE GROUP:	2, 4		
LOT SIZE:	25.00'x 100.00'		
LOT AREA:	2,500 SF		
OCC. GRP:	R-2		
CONSTR. CL.:	IB		
FIRE INDEX:	1		

Proposed New 6 Story & Cellar (9) Family & Community Facility Building.

12-10 Base Plane Calculations
Base Plane is located at Property line (MANHATTAN AVENUE)=
(13.42' + 13.48')/2 = 13.45'

123-20 Use Group 2&4:
Use Group 2 consists of all other types of "residential development:"
Residences of all kinds, including... apartments.
Use Group 4 includes community facility.

23-22 Maximum number of dwelling units or rooming units
district R6A: factor for dwelling units: 680
maximum permitted no. of dwelling units:
6,750 SF / 680 = 10 d.u.s
(max f.a.r.) / (d.u. factor) = (max. no. of d.u.s)
Proposed number of DU's: 9 < 10 Therefore **OK**

123-32 Environmental Conditions
In Special Mixed Use Districts, all new dwelling units shall be provided with a minimum 35dB(A) of window wall attenuation to maintain an interior noise level of 45dB(A) or less, with windows closed, and shall provide an alternate means of ventilation.

23-32 Lot Area and Width
Min. Req'd. Lot Area: 1,700 SF
Proposed Lot Area: 2,500 SF > 1,700.00 SF Therefore **OK**
Min. Req'd. Lot Width: 18'-0"
Proposed Lot Width: 25'-0" > 18'-0" Therefore **OK**

123-64 Maximum Floor Area Ratio and Lot Coverage Requirements for Zoning Lots Containing Mixed Use Buildings
(a) Maximum Floor Area Ratio
(2)Community facility shall comply with 24-11
(3)Residential uses shall comply with 23-14, 23-141
(4)Mixed use buildings shall comply with base floor area ratio set by 23-952

24-11 Maximum Floor Area Ratio and Percentage of Lot Coverage
R6A: Max. F.A.R.= 3.00
Max. Permitted Floor Area: 2,500 SF x 3.00 = 7,500 SF
Total Proposed Community Zoning Floor Area:
2,229 SF < 7,500 SF, Therefore **OK** (See Z-004.00, Z-005.00)
Lot Coverage: 100% - Interior Lot within 100'-0" of the corner
Max. Permitted Footprint: 2,500 SF x 1.00 = 2,500 SF
Proposed Community Lot Coverage: 2,229 S.F. (See Z-004.00)
2,229 S.F. < 2,500 S.F. Therefore **OK**

23-953 Floor Area Compensation for Quality Housing
R6A: Max. F.A.R.= 2.70
Max. Permitted Floor Area: 2,500 SF x 2.70 = 6,750 SF
Total Proposed Residential Zoning Floor Area:
6,743.7 SF < 6,750 SF, Therefore **OK** (See Z-004.00, Z-005.00)
Lot Coverage: 65% - Interior Lot within 100'-0" of the corner
Max. Permitted Footprint: 2,500 SF x 0.65 = 1,625 SF
Proposed Residential Lot Coverage: 1,552.36 S.F. (See Z-004.00)
1,552.36 S.F. < 1,625 S.F. Therefore **OK**

FLOOR	USE	GROSS	DEDUCTIONS	ZONING	FAR
C	AMBULATORY DIAGNOSTIC HEALTH CARE FACILITY	1,891.63	1,891.63	0.00	0.000
C	COMMON MECHANICAL ROOMS	337.37	337.37	0.00	0.000
1	AMBULATORY DIAGNOSTIC HEALTH CARE FACILITY	92.47	0.00	92.47	0.037
1	RESIDENTIAL	919.88	440.11	479.77	0.192
2	RESIDENTIAL	1,019.43	232.90	786.53	0.315
3	RESIDENTIAL	1,552.36	216.84	1,335.52	0.534
4	RESIDENTIAL	1,552.36	216.84	1,335.52	0.534
5	RESIDENTIAL	1,552.36	216.84	1,335.52	0.534
6	RESIDENTIAL	1,469.95	203.57	1,266.38	0.507
R	RESIDENTIAL	572.25	460.28	111.97	0.045
TOTAL COMMUNITY FACILITY		2,321.47	2,229.00	92.47	0.037
TOTAL RESIDENTIAL		8,638.59	1,987.38	6,651.21	2.660
TOTALS		10,960.06	4216.38	6743.68	2.697
	TOTAL ZONING FLOOR AREA			6,743.68	2.697

23-952 Floor area compensation in Inclusionary Housing designated areas
R6A: Base F.A.R.= 2.70
Base. Permitted Floor Area: 2,500 SF x 2.70 = 6,750 SF
Total Proposed Zoning Floor Area:
6,698 SF < 6,750 SF, Therefore **OK** (See Z-004.00, Z-005.00)
Lot Coverage: 65% - Interior Lot within 100'-0" of the corner
Max. Permitted Footprint: 2,500 SF x 0.65 = 1,625 SF
Proposed Lot Coverage: 1,552.36 S.F. (See Z-004.00)
1,552.36 S.F. < 1,625 S.F. Therefore **OK**

23-462 (c) Side Yards:
Min. Req.: None, but if provided, must be 8'-0" wide
Proposed: None Therefore **OK**

123-652 Minimum required rear yards within 100'-0" of corner
Not required In [R6A] within 100'-0" of a corner.
None required within 100' of corner -
Proposed: None Therefore **OK**

23-86 Minimum Distance between Required Windows and Walls or Lot Lines
In R6 District the minimum distance between any legally required windows and (c) lot line, or vertical projection of thereof; shall be 30 feet.
Proposed 30' < = 30', Therefore **OK**

23-62 Permitted obstructions in setback regulations

(g) Elevator or stair bulkheads and accessory mechanical equipment (including enclosures) are allowed as permitted obstruction within a required setback provided that:
(1)provided the aggregate width of street walls of such bulkheads within 10 feet of a street wall, facing each street frontage, times their average height, in feet, does not exceed an area equal to four times the width, in feet, of the street wall of the building facing such frontage;
Proposed area of street wall of the building = 25'-0" x 4 = 100 S.F.
Proposed aggregate width of bulkhead = 9'-2.5"
Proposed average height of bulkhead = 9'-9"
proposed area of bulkhead within 10 feet of street wall
= 9'-2.5 x 9'-9" - 89.78 S.F. < 100 S.F. Therefore **OK**

23-621 Permitted obstructions in certain districts
(1)No proposed Dormers Therefore **OK**

(2)Solar energy systems on a roof shall be limited to four feet or less in height, as measured from the maximum height limit, or the finished level of the roof, whichever is higher. However, on a roof with a slope greater than 20 degrees, such systems shall be limited to 18 inches in height as measured perpendicular to the roof surface.
Proposed solar panels 3'-0" above finished roof.
3'-0" < 4'-0" Therefore **OK**

24-651 Minimum Distance between Required Windows and Walls or Lot Lines
In R6 District the minimum distance between any legally required windows and (c) lot line, or vertical projection of thereof; shall be 30 feet.
Proposed 30' < = 30', Therefore **OK**

25-241 Reduced Parking Requirements
In R6A districts for "zoning lots" of 10,000 SF or less, the number of required "accessory" off-street parking spaces is: 50% of the total "dwelling units"
(no. of d.u.s)x(percentage of req. parking)=(no. of spaces req.)
9 d.u.s x 0.50 = 4.5 parking spaces.

25-261 Waiver of Requirements for Small Number of Spaces
In R6A districts for "zoning lots" of 10,000 SF or less, the number of required "accessory" off-street parking spaces is: 50% of the total "dwelling units"
(no. of d.u.s)x(percentage of req. parking)=(no. of spaces req.)
0 parking spaces required.
No Proposed Parking spaces Therefore **OK**

25-811 Enclosed Bicycle Parking Spaces
In R6A districts for Use Group 2, the number of required bicycle parking spaces is: 50% of the total "dwelling units"
(no. of d.u.s)x(percentage of req. parking)=(no. of spaces req.)
Proposed 9 d.u.s x 0.50 = 4.5 parking spaces.
(a) Buildings containing 10 dwelling units or less shall waive bicycle parking spaces.
0 Parking spaces required.
0 Parking spaces proposed. Therefore **OK**

28-12 Street Tree Planting
Final location to be determined by Department of Parks and Recreation. New trees shall be planted, maintained and replaced, by Owner, when necessary, as per Quality Housing Program @ 25' o.c. & 3" caliper min.; with the approval of and in accordance with the standards of the Department of Parks and Recreation & D.O.T.
(typ.) 1 street tree for every 25'-0" of street frontage of the lot shall be planted.
Street frontage: 25'-0"
Required number of trees: 25'-0" / 25 = 1 trees = 1 trees
Existing number of trees: 1 tree onsite Therefore **OK**

Exact location to be determined by Parks and Recreation. Contractor to contact NYC Parks and Recreation to obtain approval for location and species of trees to be planted on site.
The Contractor shall comply with §[C26-1902.5] 27-1030 Protection of trees.-No trees outside the street line shall be disturbed or removed without the permission of the commissioner of parks and recreation. Protection meeting the requirements of the department of parks and recreation shall be provided around the trunks of all such trees, and written notification shall also be made to the department of parks and recreation at least forty-eight hours prior to commencement of such work. No deleterious, caustic, or acid materials shall be dumped or mixed within ten feet of any such tree, nor shall salt for the removal of ice or snow be applied when runoff will drain to a tree.

Quality Housing Program

23-933 Iclusionary housing designated areas
This Project does not propose any afforadable housing units.

123-662 TABLE B (CONTEXTUAL) R6A - the height & setback regulations of Sections 23-60 & 43-40 shall not apply. In lieu thereof, subject building shall comply with the height and setback regulations of this Section.
(B)(1) In R6A District a setback of 15'-0" on a narrow street is required.
Proposed setback = 15'-0 1/2" = 15'-0" Therefore **OK**
DISTRICT R6A

MIN REQUIRED BASE HEIGHT:	40'-0"	
MAX. PERMITTED BASE HEIGHT:	60'-0"	
MAX. PERMITTED BUILDING HEIGHT:	70'-0"	
PROPOSED BASE HEIGHT:	58'-8" = 60'-0"	**OK**
PROPOSED BUILDING HEIGHT:	66'-8" = 70'-0"	**OK**
NARROW STREET SETBACK	15'-0"	
PROPOSED SETBACK	15'-0 1/2" = 15'-0"	**OK**

28-21 Size of Dwelling Units:
A dwelling unit shall have an area of at least 400 square feet of floor area.
Proposed smallest dwelling unit = 469 S.F > 400 S.F Therefore **OK**

28-22 windows
All windows in the residential portion of a development or enlargement shall be double glazed.

28-23 Refuse Storage and Disposal
A refuse disposal room of not less than twelve square feet with no dimension less than three feet shall be provided on each story that has entrances to dwelling units or rooming units. Twelve square feet of such refuse storage room shall be excluded from the definition of floor area.
Proposed Refuse disposal room = 17.47 S.F > 12 S.F. Therefore **OK**
Proposed dimension of refuse room = 3'-0" > 3'-0" Therefore **OK**

28-25 Daylight In Corridors
50% of the square footage of a corridor may be excluded from the definition of floor area if a window with a clear, non-tinted, glazed area of at least 20 square feet is provided in such corridor, provided that such window:
a) Shall be directly visible from 50% of the corridor or from the vertical circulation core. This standard shall be achieved when a visually unobstructed straight line can be drawn between such corridor, elevator or stairwell, and the window, and
b) is located at least 20 feet from a wall or a side or rear lot line measured in a horizontal plane and perpendicular to the rough window opening.
Proposed: A double glazed glass entry door type D1 shall be supplied at entrance for a total of 21 SF, which is visible as required from the necessary locations. Therefore **OK**

28-31 Required Recreation Space
In District R6A the Minimum Required Recreation Space (as a percentage of the residential floor area) is 3.3 % of 6,644 SF = 219.25 SF, as per 28-32 (b) min of 300 sq.ft.
Proposed Recreation Space 1st Floor = 606.05 > 300 sq.ft. Therefore **OK**

28-32 Standards for Recreation Space
(a) All recreation space shall be accessible to residents of the building.
(b) The minimum dimension of any recreation space shall be 15 feet, and the minimum space for any indoor recreation space shall be 300 S.F.
Proposed Recreation Space 1st Floor = 606.05 SF >300 S.F. Therefore **OK**
(d) Indoor recreation room shall have at least one window that measures not less than 9.5 percent of the total space of the room. 9.5% of 564.04 = 53.58 S.F. Proposed 92 S.F > 53.58 Therefore **OK**

28-41 Density Per Corridor:
In R6A Districts, the total number of "dwelling units" permitted in order to subtract 50 % of the SF of the corridors: 11
Proposed number of DU's: 2 per corridor <11 Therefore **OK** (See Z-101)

General Notes:
1. The height of all public corridors shall be 8'-0" min. (typ.)
2. Building is in compliance with Seismic Code under LL 17/95 bY providing 2" seismic gap separation.
See plans for further information.

Exterior Non-Bearing wall assembly -type 6 (2hr rated, ul design u425):
6" Metal Studs @ 16" o.c., 4" sound attenuation blanket, (2) layers 5/8" gypsum board inside, 5/8" gypsum board and 5/8" densgold board outside, 1" 3-coat cementicious stucco.

Stairs & Elevator Enclosure - (2hr rated, ul design U404):
3 1/2" metal studs @ 16" o.c., 4" sound attenuation blanket, (2) layers 5/8" gypsum board inside and outside (STAIRS)
8" cast in place concrete (ELEVATOR)

Typical Floor Assembly (2hr fire rated):
10" cast in place concrete

Typical Roof Assembly (1hr fire rated):
10" cast in place concrete w/ concrete sloped to drains, liquid applied waterproof membrane, 6" extruded polystirene insulation.

TABLE 503—continued
ALLOWABLE HEIGHT AND BUILDING AREAS[a]
Height limitations shown as stories and feet above grade plane.
Area limitations as determined by the definition of "Area, building," per floor.

GROUP	Hgt (feet) Hgt(S)	TYPE OF CONSTRUCTION									
		TYPE I		TYPE II		TYPE III		TYPE IV	TYPE V		
		A	B	A	B	A	B	HT	A	B	
	Hgt(S)	UL	160e	65	55	65	55	65	50	40	
R-1	S	UL	UL	6	NP	6	NP	6	NP	NP	
	A	UL	UL	UL	NP	24,000	NP	20,500	NP	NP	
R-2	S	UL	UL	6	NP	6	3	6	NP	NP	
	A	UL	UL	UL	NP	24,000	5,600	20,500	NP	NP	
R-3	S	UL	UL	6	3	6	3	6	3	3	
	A	UL	UL	17,500	10,500	14,700	5,600	30,000	8,400	5,500	
S-1	S	UL	UL	6	3	4	3	4	3	2	
	A	UL	UL	48,000	7,500	7,500	7,500	7,500	5,000	1,000	
S-2[h,i]	S	UL	UL	6	3	6	4	6	3	2	
	A	UL	UL	15,000	10,000	10,000	8,500	10,000	8,400	5,500	
U[g]	S	UL	UL	5	4	2	3	4	2	1	
	A	UL	UL	35,000	19,000	8,500	14,000	8,500	9,000	5,500	

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m².
UL = Unlimited, NP = Not permitted.
Not permitted in Fire District
Not permitted in Fire District without sprinklers

TABLE 508.3.3 FIRE SEPARATION
FOR R-2 = 2 HOUR SEPARATION

TABLE 803.5
INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY[a]

GROUP	SPRINKLERED[f]			NONSPRINKLERED		
	Vertical exits and exit passageways[d, h]	Exit access corridors and other exitways	Rooms and enclosed spaces[b]	Vertical exits and exit passageways[d, h]	Exit access corridors and other exitways	Rooms and enclosed spaces[b]
A-1 & A-2	B	B	C	A	A[d]	B[e]
A-3[f], A-4, A-5	B	B	C	A	A[d]	C
B, E, M, R-1	B	B	B	A	A	C
F	B	C	C	A	B	B
H	B	B	C[g]	A	A	B
I-1	B	C	C	A	B	B
I-2	B	B	B[h, i]	A	A	B
I-3	A	A[i]	C	A	A	B
I-4	B	B	B[h, i]	A	A	B
R-2	B	B	C	A	A	C
R-3	C	C	C	C	C	C
S	B	C	C	A	B	C
U	No restrictions			No restrictions		

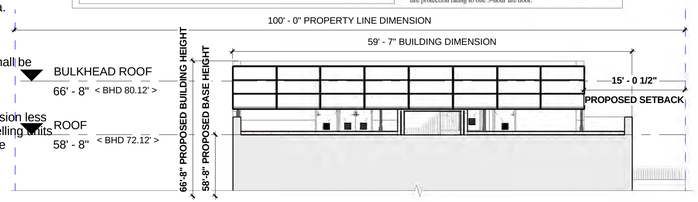
CLASS A = 3 HR.
CLASS B = 1.5 HR.
CLASS C = 3/4 HR.

TABLE 715.3
FIRE DOOR AND FIRE SHUTTER FIRE PROTECTION RATINGS

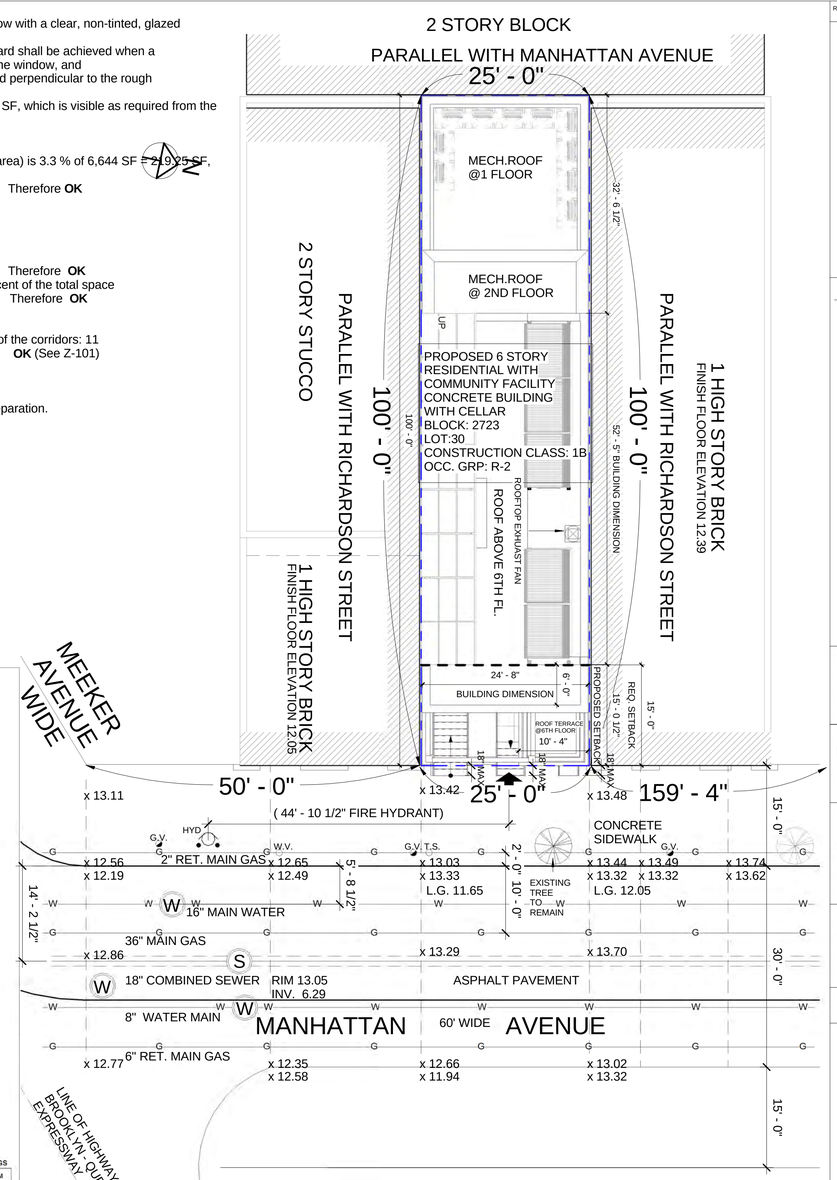
TYPE OF ASSEMBLY	REQUIRED ASSEMBLY RATING (hours)	MINIMUM FIRE DOOR AND FIRE SHUTTER ASSEMBLY RATING (hours)
Fire walls and fire barriers having a required fire-resistance rating greater than 1 hour	4 3 2 1½	3 3[a] 1½ 1½
Fire barriers having a required fire-resistance rating of 1 hour: Shaft, exit enclosure and exit passageway walls Other fire barriers	1 1	1 ¾
Fire partitions: Corridor walls Other partitions	1 1	¾ ¾
Exterior walls	3 2 1	1½ 1½ ¾

a. Two doors, each with a fire protection rating of 1½ hours, installed on opposite sides of the same opening in a fire wall, shall be deemed equivalent in fire protection rating to one 3-hour fire door.

ECCNY COMPLIANCE STATEMENT
"TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CODE OF NEW YORK STATE, USING CHAPTER 5
LL 17/95 COMPLIANCE STATEMENT
PROPOSED DEVELOPMENT COMPLIES WITH LL17/95 SEISMIC CODE

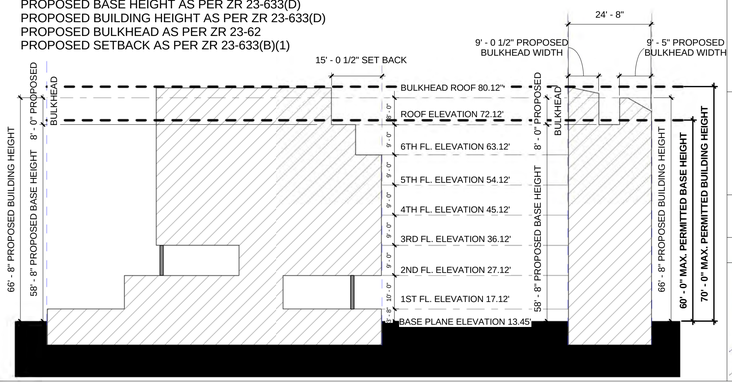


BULKHEAD CALCULATION-SOUTH ELEVATIONS



SECTION DIAGRAM

SCALE 1' - 0" = 1/16"
PROPOSED BASE HEIGHT AS PER ZR 23-633(D)
PROPOSED BUILDING HEIGHT AS PER ZR 23-633(D)
PROPOSED BULKHEAD AS PER ZR 23-62
PROPOSED SETBACK AS PER ZR 23-633(B)(1)



Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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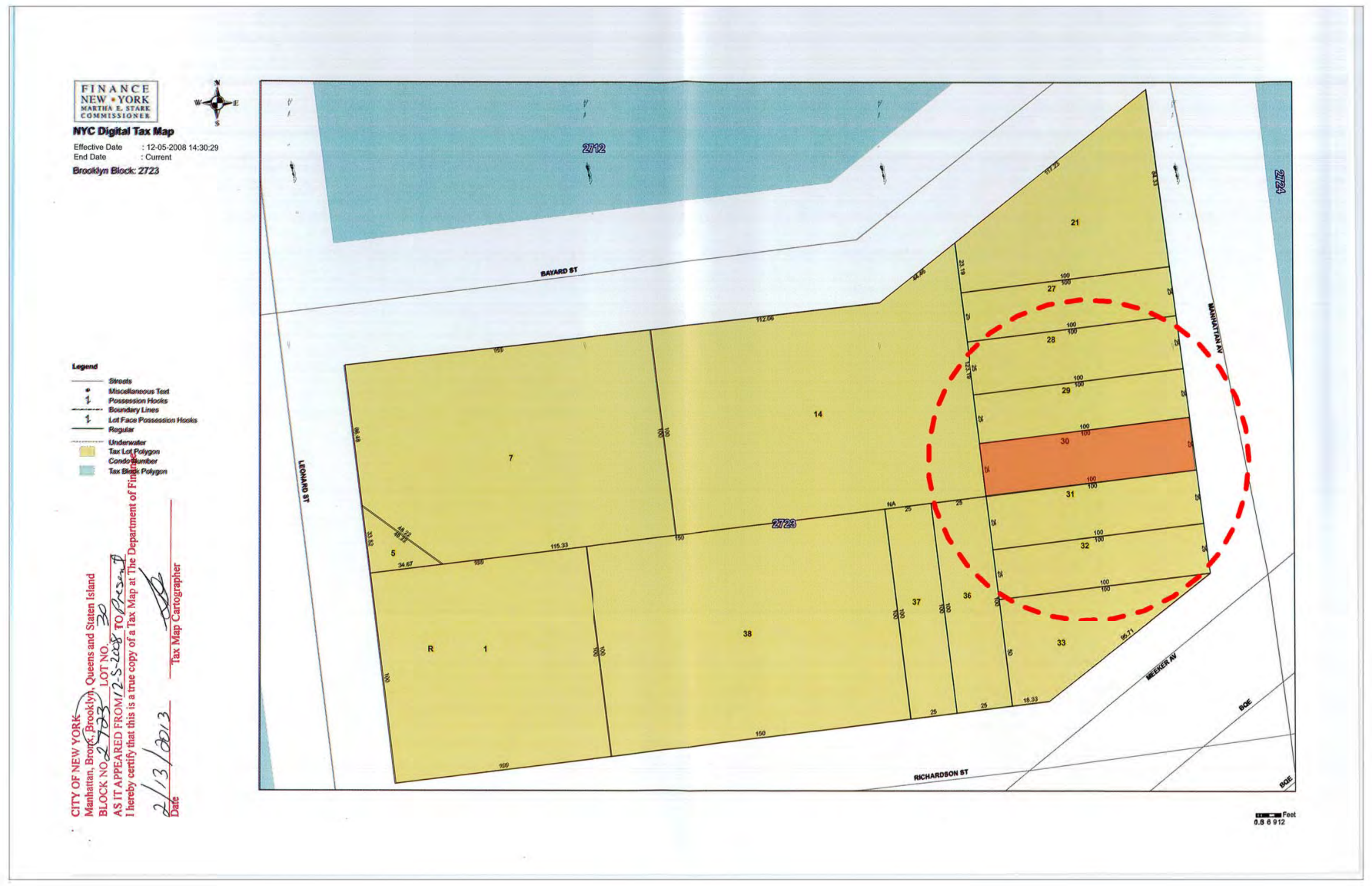
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING ANALYSIS

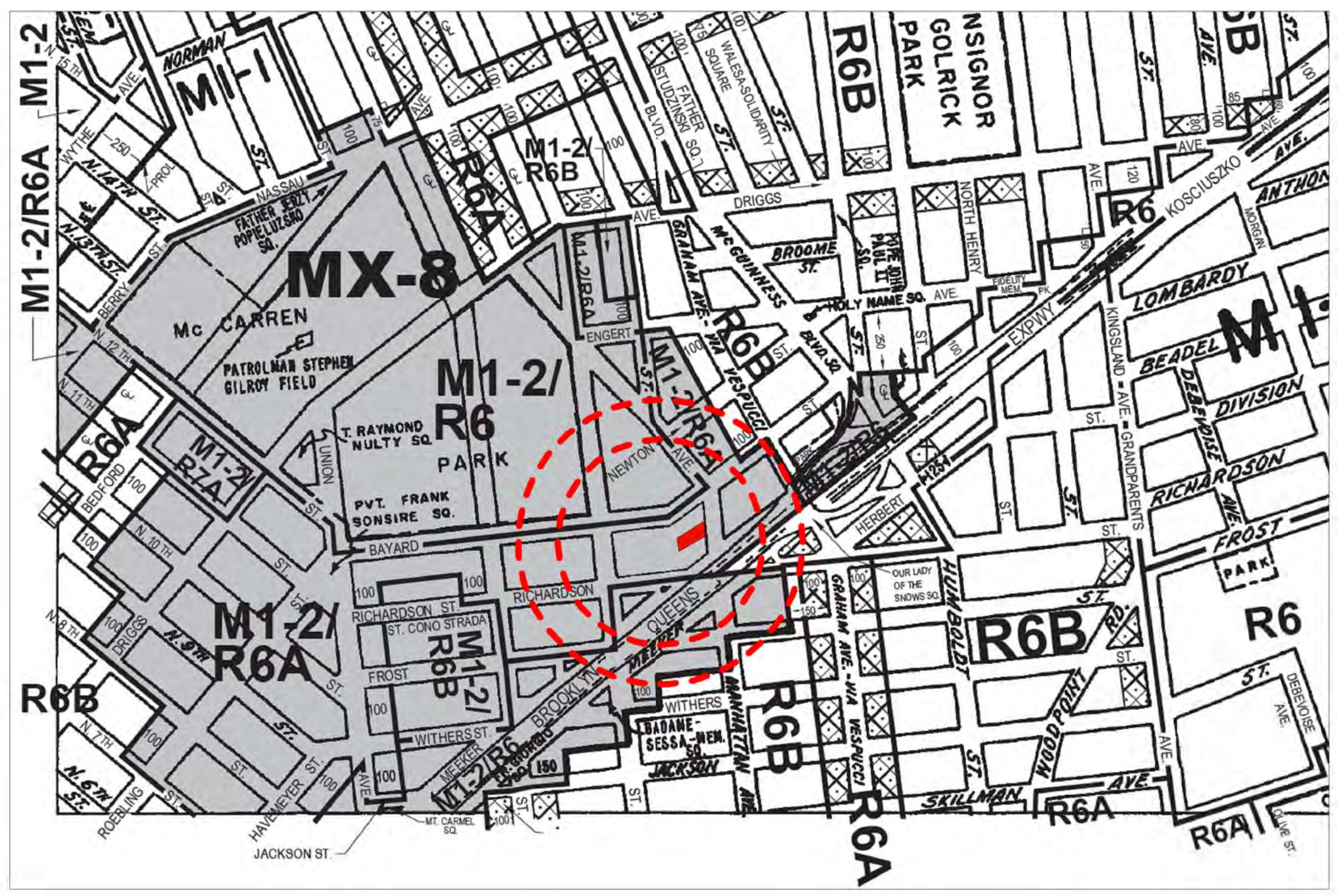
DWG #
Z-001.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039812 STATE OF NEW YORK

Date: 05/17/12
Scale: As indicated
Drawn: Designer
Job #: 32157
Checked: Checker

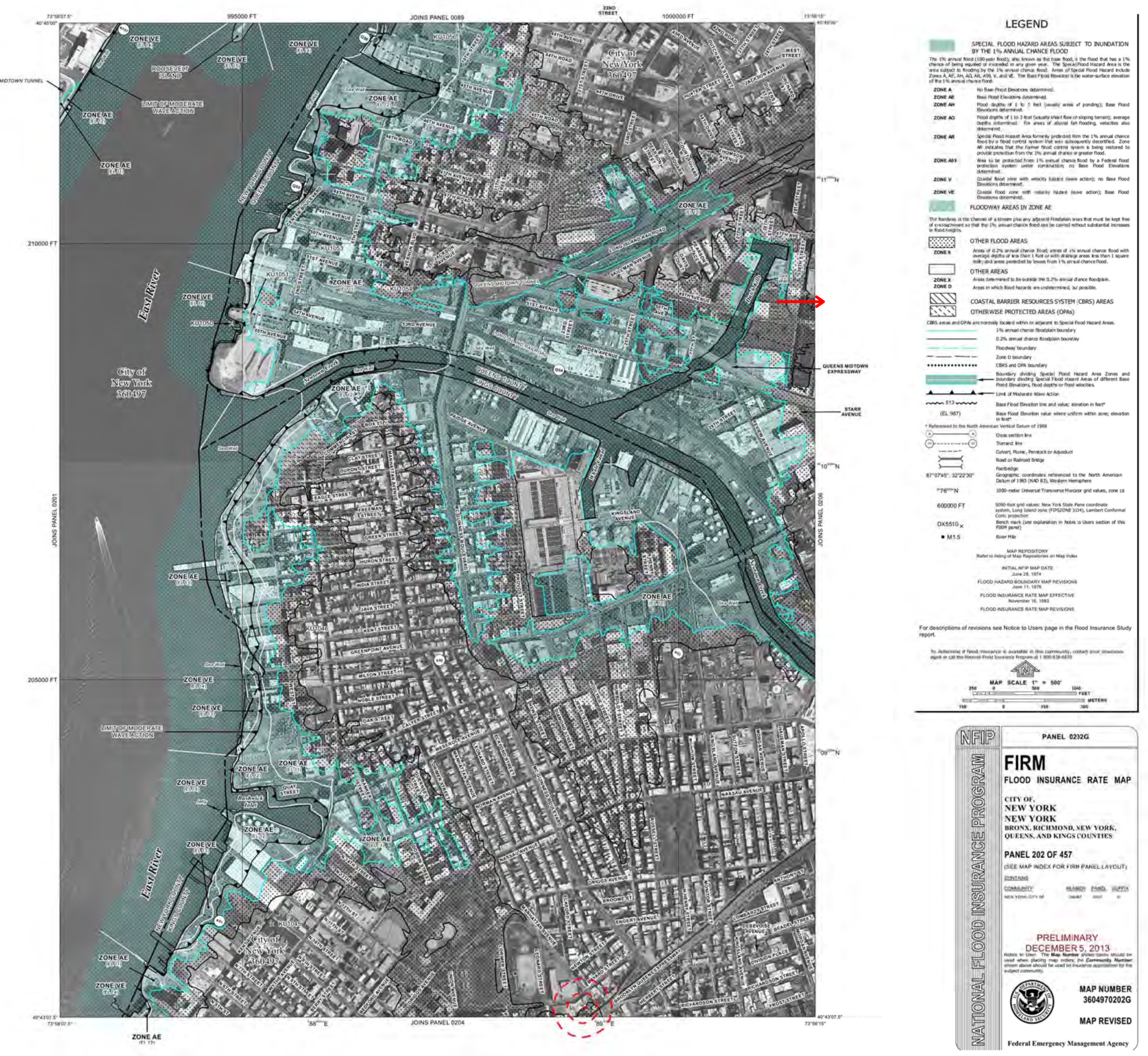


1 TAX MAP
1/4" = 1'-0"



2 ZONING MAP
3/8" = 1'-0"

4 FINAL FLOOD ZONING MAP
3/4" = 1'-0"



5 PRELIMINARY FLOOD ZONING MAP
3/4" = 1'-0"

The premises are currently located in an Zone X per effective FIRM. The applicant has been advised by the DOB and acknowledges that the premises are now located in an Zone X per FEMA Advisory Flood Maps released in 2013.

TR-8 ENERGY CODE INSPECTIONS:

1. PROTECTION OF FOUNDATION INSULATION - (IA1)(IIA1)
2. INSULATION PLACEMENT AND R VALUES - (IA2) (IIA2)
3. FENESTRATION THERMAL VALUES AND RATINGS - (IA3), (IIA3)
4. FENESTRATION RATING FOR AIR LEAKAGE - (IA4)(IIA4)
5. AIR SEALING AND INSULATION (VISUAL) - (IA6), (IIA6)
6. VESTIBULES (IIA9)
7. DUCT PLENUM AND PIPING INSULATION AND SEALING - (IB4)(IIB4)
8. LIGHTING IN DWELLING UNITS - (IC2)(IIC2)
9. INTERIOR LIGHTING POWER - (IIC3)
10. EXTERIOR LIGHTIN POWER - (IIC4)
11. EXIT SIGNS - (IIC6)

CONTROLLED INSPECTIONS (TR-1):

- CONCRETE - CAST-IN-PLACE BC 1704.4
- CONCRETE TEST CYLINDERS* TR2 BC 1905.6
- CONCRETE DESIGN MIX* TR3 BC 1905.3
- SOILS - INVESTIGATIONS (BORINGS/TEST PITS) TR4 BC 1704.7.4
- UNDERPINNING BC 1704.9.1
- WALL PANELS, CURTAIN WALLS, AND VENEERS BC 1704.1
- MECHANICAL SYSTEMS BC 1704.15
- STRUCTURAL SAFETY - STRUCTURAL STABILITY BC 1704.19
- EXCAVATION - SHEETING, SHORING, AND BRACING BC 1704.19, BC 3304.4.1
- SITE STORM DRAINAGE DISPOSAL AND DETENTION S-M INSTALL BC 1704.20
- SPRINKLER SYSTEMS BC 1704.21
- HEATING SYSTEMS BC 1704.23
- FIRESTOP, DRAFTSTOP, AND FIREBLOCK SYSTEMS BC 1704.25
- PRELIMINARY 28-116.2.1, BC 109.2
- FOOTING AND FOUNDATION BC 109.3.1
- ENERGY CODE COMPLIANCE INSPECTIONS BC 109.3.5
- FIRE-RESISTIVE RATED CONSTRUCTION BC 109.3.1

LEGEND

Symbol	Description
PLAN	2 HR FIRE PARTITION
CM SD PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
A.D PLAN	AREA DRAIN
H.W.H PLAN	HOT WATER HEATER

Revision No.	Date	Remarks

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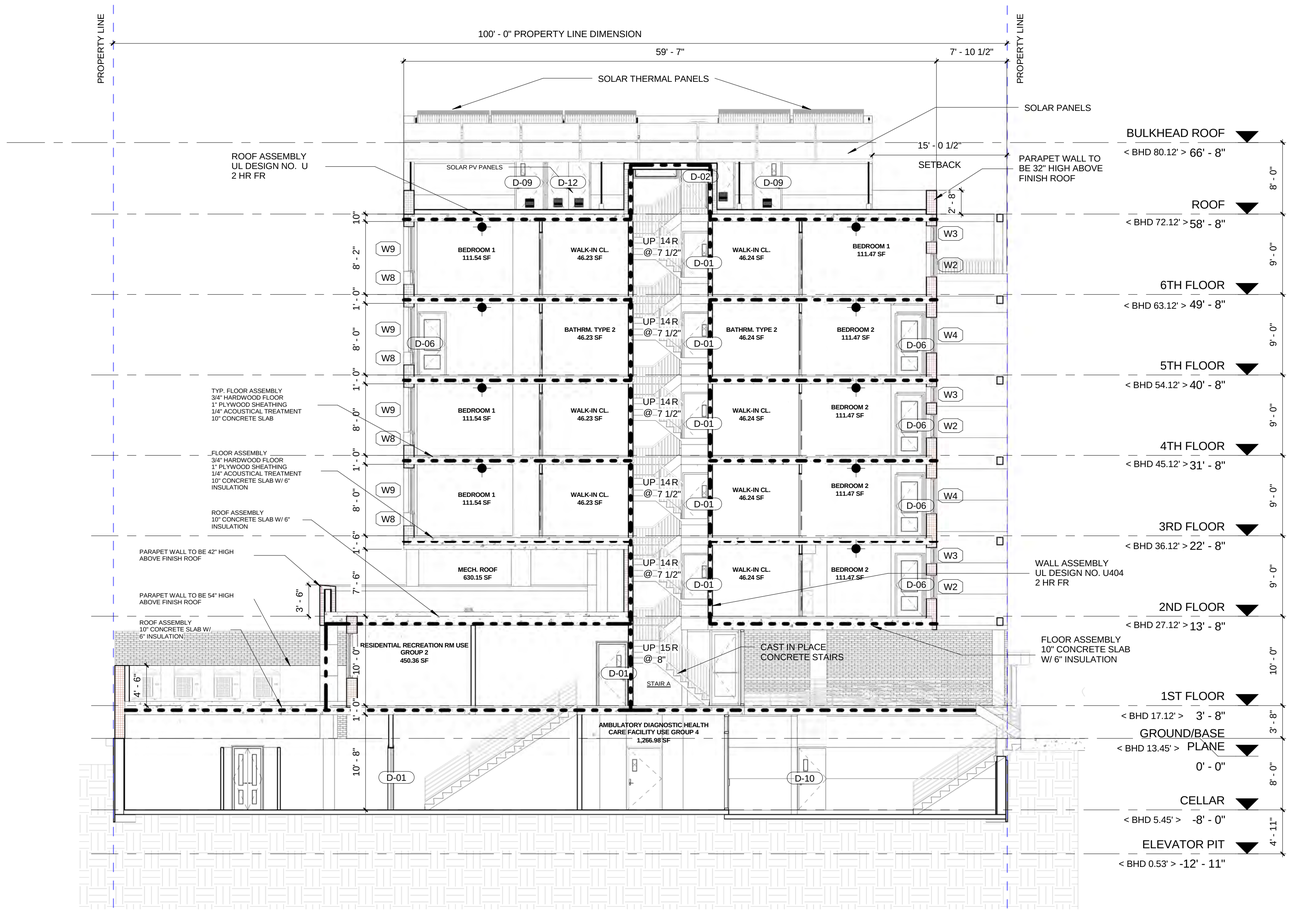
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MAPPING & CODE COMPLIANCE

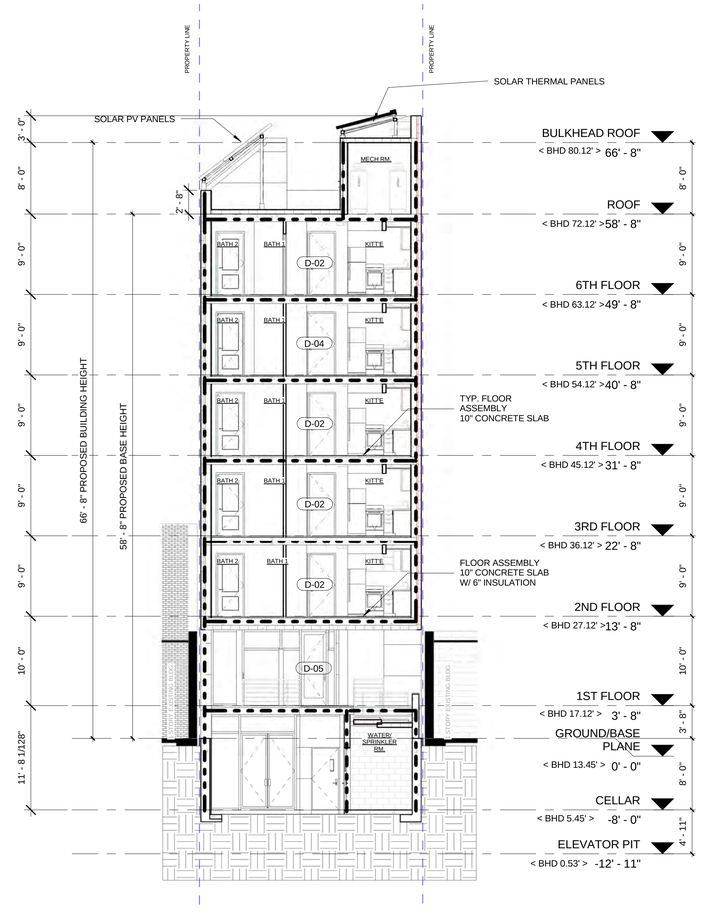
DWG #
Z-002.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK

Date: 06/25/13
Scale: As indicated
Drawn: Designer
Job #: 32157
Checked: Checker



1 SECTION BLDG. CODE TABLE 3-4
1/8" = 1'-0"



2 SECTION BLDG. CODE TABLE 3-4
1/8" = 1'-0"

UL WALL DESIGNS

Fire Rated System Design - UL U404

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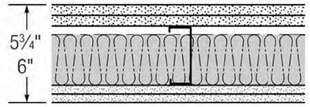


CAD - REVIT

UL U404

Exterior Walls -Steel Stud (Loadbearing)

Fire Rating	2 hour
System Thickness	5-3/4"

Detailed Description Quick Description

Gypsum Board - Two layers of 5/8 in. thick gypsum board applied vertically or horizontally.

- SECUROCK Brand Glass-Mat Sheathing FIRECODE Core - 5/8"
- SHEETROCK Brand FIRECODE Core Gypsum Sheathing (Type X) - 5/8"
- FIBEROCK® Aqua-Tough™ Tile Backerboard Panels
- FIBEROCK Brand Aqua-Tough Tile Backerboard Panels
- FIBEROCK Brand Abuse-Resistant Interior Panels
- FIBEROCK Brand Abuse-Resistant Interior Panels - 5/8"

Steel Studs - 3-1/2 in. wide, fabricated from min 20 gauge galv. steel spacee @ max 16 in. OC

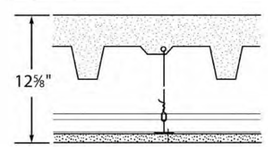
Batts and Blankets - Min. 3 in. thick mineral wool insulation batts

Cement Board - Two layers of 1/2 or 5/8 in. thick board, applied vertically or horizontally

- DUROCK Brand Cement Board Next Gen

Fire Rated System Design - UL D501

Print This Page



CAD - REVIT

UL D501

Concrete

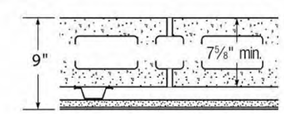
Fire Rating	STC / Sound Test	System Thickness
2 hour	N/A	10-1/8"

Assembly Description

- min. 2" ltwt concrete
- composite 3", 4-1/2", 6", or 7-1/2" deep, 12" wide, phos/ptd or galv fluted units
- min. W8x17 beams
- USG DGL Drywall Suspension System
- 5/8" Sheetrock® Brand Firecode® C Core Gypsum Panels
- see UL website for beam fire protection

Fire Rated System Design - UL U914

Print This Page



CAD - REVIT

UL U914

Furred Masonry -CMU

Fire Rating	STC / Sound Test	System Thickness
3 hour	N/A	9"

Detailed Assembly Description Quick Assembly Description

Concrete Block - Min. 7-5/8 in. depth concrete blocks with UL Classification mark 0-2 (2 hr)

Gypsum Board - 1/2 in. thick, 4 ft. wide board attached one side to resilient or furring channels

- SHEETROCK Brand FIRECODE® C Core Gypsum Panel - 5/8"
- SHEETROCK Brand Mold Tough™ FIRECODE® C Core Gypsum Panels
- SHEETROCK Brand FIRECODE Core (Type X)
- SHEETROCK Brand FIRECODE C Core Gypsum Panel - 1/2"
- SHEETROCK® Abuse-Resistant FIRECODE® C Core Gypsum Panels
- IMPERIAL Brand Gypsum Base FIRECODE C Core - 1/2"

Furring Channels - 7/8 in. deep min 25 gauge galv steel furring channel, 1-3/8 in. wide on top and 2-3/4 in. wide at bottom @ 24 in. o.c. Channel perpendicular to floor with a channel parallel to and approximately 3 in. above floor and 3 in. below ceiling. Clearance between vertical and horizontal channels 1/2 in.

Revision No.	Date	Remarks

Project Manager/Designer:
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Civil Engineer:
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DOB APPLICATION NO.
320593041

TAMAR KISILEVITZ ARCHITECT, PLLC
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

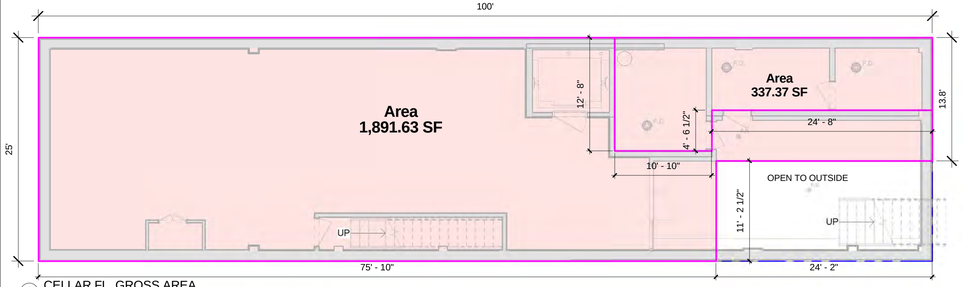
Title:
SECTION BLDG. CODE

DWG #
Z-003.00

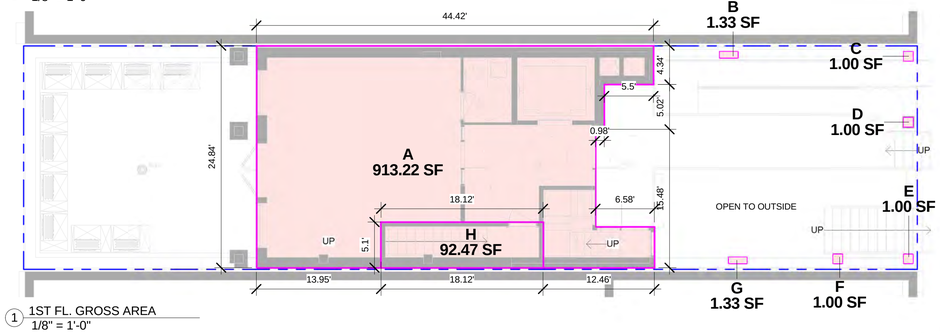
Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039817 STATE OF NEW YORK

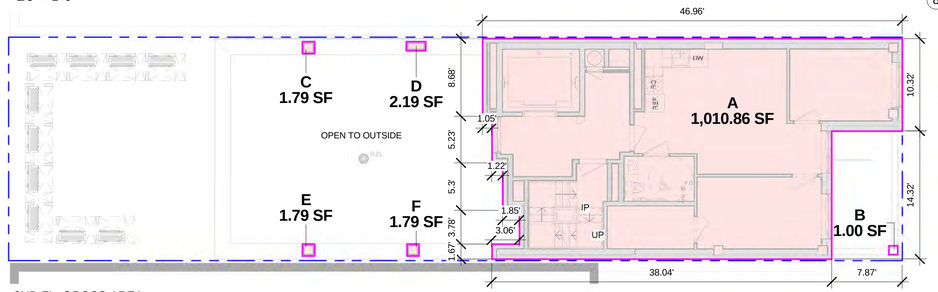
Date:	10/01/14
Scale:	As indicated
Drawn:	Designer
Job #	32157
Checked:	Checker



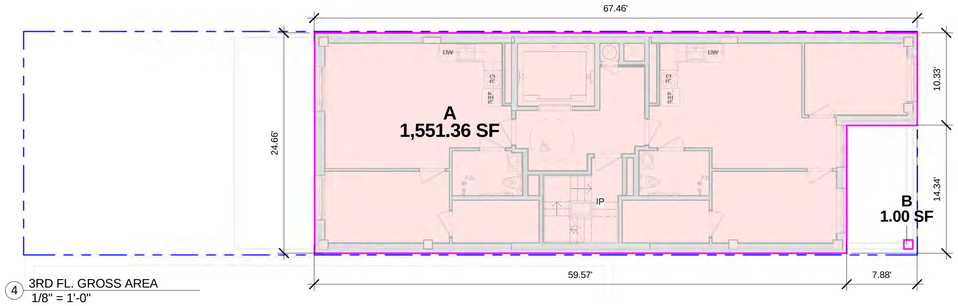
2 CELLAR FL. GROSS AREA
1/8" = 1'-0"



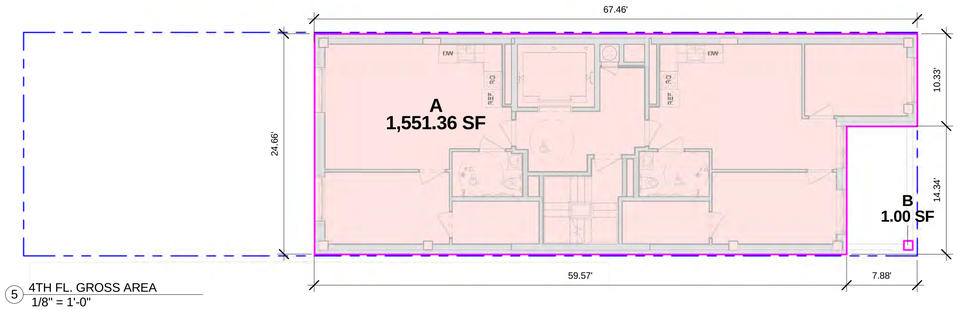
1 1ST FL. GROSS AREA
1/8" = 1'-0"



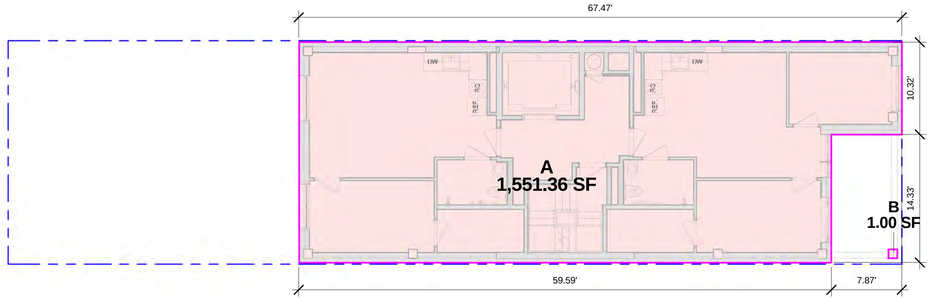
3 2ND FL. GROSS AREA
1/8" = 1'-0"



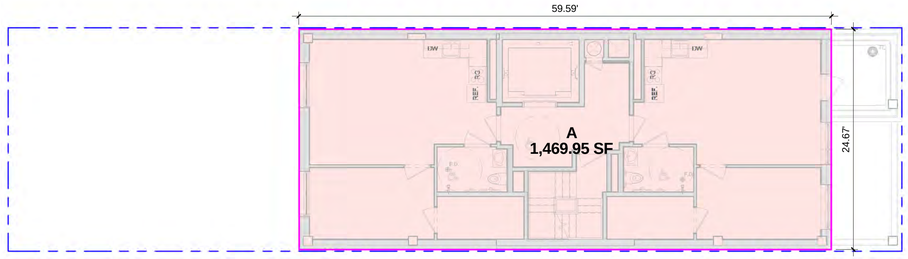
4 3RD FL. GROSS AREA
1/8" = 1'-0"



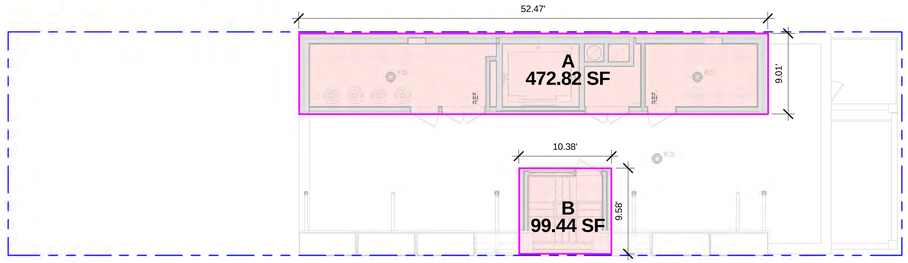
5 4TH FL. GROSS AREA
1/8" = 1'-0"



7 5TH FL. GROSS AREA
1/8" = 1'-0"



8 6TH FL. GROSS AREA
1/8" = 1'-0"



9 ROFF GROSS AREA
1/8" = 1'-0"

Area Schedule (Gross Building)	
Name	Area
CELLAR	
Area	1,891.63 SF
Area	337.37 SF
2	2,229.01 SF
1ST FLOOR	
A	913.22 SF
B	1.33 SF
C	1.00 SF
D	1.00 SF
E	1.00 SF
F	1.00 SF
G	1.33 SF
H	92.47 SF
8	1,012.35 SF
2ND FLOOR	
A	1,010.86 SF
B	1.00 SF
C	1.79 SF
D	2.19 SF
E	1.79 SF
F	1.79 SF
6	1,019.43 SF
3RD FLOOR	
A	1,551.36 SF
B	1.00 SF
2	1,552.36 SF
4TH FLOOR	
A	1,551.36 SF
B	1.00 SF
2	1,552.36 SF
5TH FLOOR	
A	1,551.36 SF
B	1.00 SF
2	1,552.36 SF
6TH FLOOR	
A	1,469.95 SF
1	1,469.95 SF
ROOF	
A	472.82 SF
B	99.44 SF
2	572.25 SF
Grand total	10,960.07 SF

Revision No.	Date	Remarks

N

Project Manager/Designer:
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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

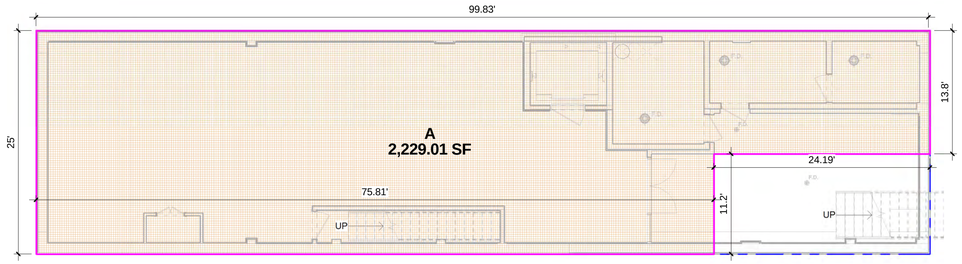
Title:
ZONING GROSS AREA COMPUTATION

DWG #
Z-004.00

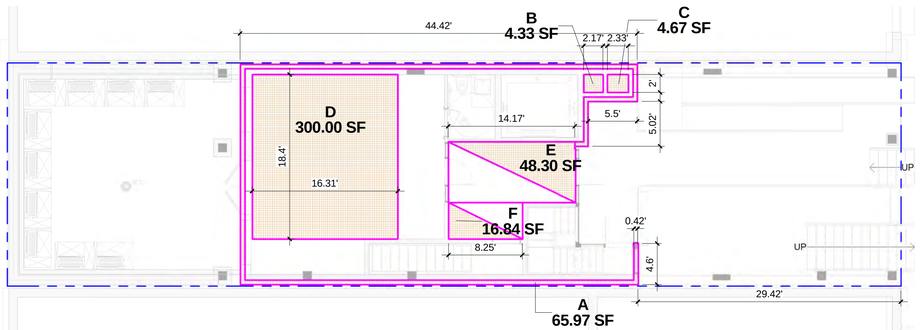
Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039107 STATE OF NEW YORK

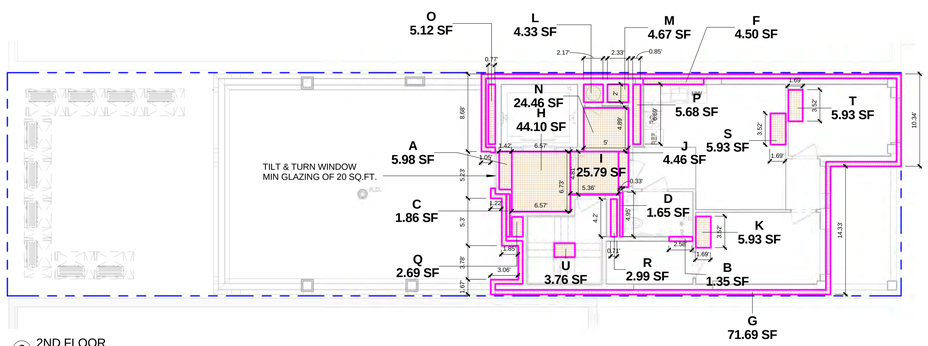
Date: 04/26/13
Scale: 1/8" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker



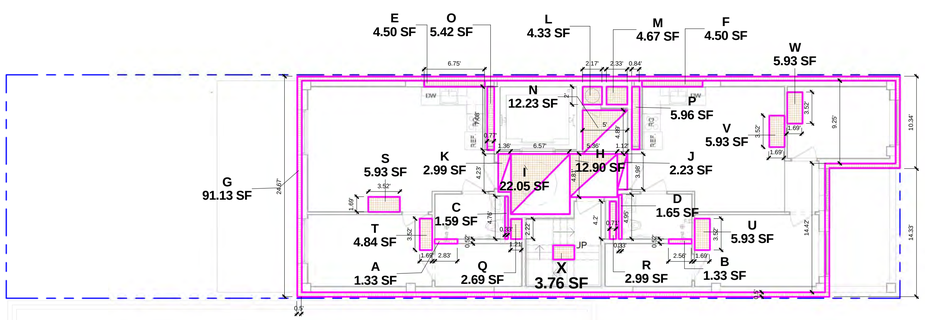
2 CELLAR FL. DEDUCTIONS
1/8" = 1'-0"



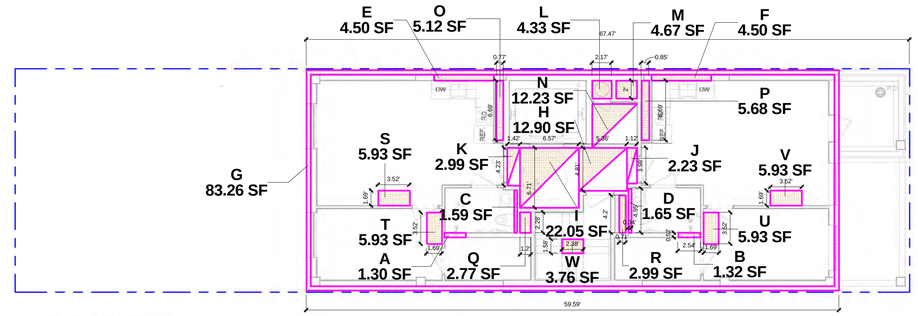
1 1ST FL. DEDUCTIONS
1/8" = 1'-0"



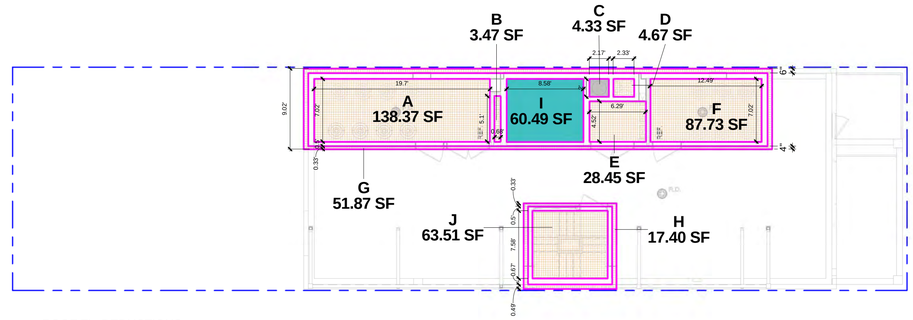
3 2ND FLOOR
1/8" = 1'-0"



4 3RD, 4TH & 5TH FLOORS
1/8" = 1'-0"



8 6TH FL. DEDUCTIONS
1/8" = 1'-0"



9 ROOF FL. DEDUCTIONS
1/8" = 1'-0"

Area Schedule (Deduction)			
Name	Deduction Type	Area	Reason
CELLAR			
A	CELLAR	2,229.01 SF	12-10 (1)
1		2,229.01 SF	
1ST FLOOR			
A	EXTERIOR WALL	65.97 SF	(12-10) (12)
B	MECH SHAFT	4.33 SF	Open To Below
C	MECH SHAFT	4.67 SF	Open To Below
D	RES. RECREATION RM.	300.00 SF	28-31
E	HALLWAY	48.30 SF	Density ZR 28-41
F	HALLWAY	16.84 SF	Density ZR 28-41
6		440.11 SF	
2ND FLOOR			
A	HALLWAY	5.98 SF	Density ZR 28-41
B	CHASE WALL	1.35 SF	(12-10) (8)
C	CHASE WALL	1.86 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	SIPS PANEL	71.69 SF	(12-10) (12)
H	HALLWAY	44.10 SF	Density ZR 28-41
I	HALLWAY	25.79 SF	Density ZR 28-41
J	HALLWAY	4.46 SF	Density ZR 28-41
K	MECH. FAN COIL	5.93 SF	
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	24.46 SF	28-23
O	SHAFT	5.12 SF	Open To Below
P	SHAFT	5.68 SF	Open To Below
Q	SHAFT	2.69 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	5.93 SF	
U	OPEN TO BELOW	3.76 SF	Open To Below
20		232.90 SF	
3RD FLOOR			
A	CHASE WALL	1.33 SF	(12-10) (8)
B	CHASE WALL	1.33 SF	(12-10) (8)
C	CHASE WALL	1.59 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
E	CHASE WALL	4.50 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	EXTERIOR WALL	91.13 SF	(12-10)(12)
H	HALLWAY	12.90 SF	Density ZR 28-41
I	HALLWAY	22.05 SF	Density ZR 28-41
J	HALLWAY	2.23 SF	Density ZR 28-41
K	HALLWAY	2.99 SF	Density ZR 28-41
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	12.23 SF	28-23

Area Schedule (Deduction)			
Name	Deduction Type	Area	Reason
O	SHAFT	5.42 SF	Open To Below
P	SHAFT	5.96 SF	Open To Below
Q	SHAFT	2.69 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	4.84 SF	
U	MECH. FAN COIL	5.93 SF	
V	MECH. FAN COIL	5.93 SF	
W	MECH. FAN COIL	5.93 SF	
X	OPEN TO BELOW	3.76 SF	Open To Below
24		216.84 SF	
4TH FLOOR			
A	CHASE WALL	1.33 SF	(12-10) (8)
B	CHASE WALL	1.33 SF	(12-10) (8)
C	CHASE WALL	1.59 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
E	CHASE WALL	4.50 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	EXTERIOR WALL	91.13 SF	(12-10)(12)
H	HALLWAY	12.90 SF	Density ZR 28-41
I	HALLWAY	22.05 SF	Density ZR 28-41
J	HALLWAY	2.23 SF	Density ZR 28-41
K	HALLWAY	2.99 SF	Density ZR 28-41
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	12.23 SF	28-23
O	SHAFT	5.42 SF	Open To Below
P	SHAFT	5.96 SF	Open To Below
Q	SHAFT	2.69 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	4.84 SF	
U	MECH. FAN COIL	5.93 SF	
V	MECH. FAN COIL	5.93 SF	
W	MECH. FAN COIL	5.93 SF	
X	OPEN TO BELOW	3.76 SF	Open To Below
24		216.84 SF	
5TH FLOOR			
A	CHASE WALL	1.33 SF	(12-10) (8)
B	CHASE WALL	1.33 SF	(12-10) (8)
C	CHASE WALL	1.59 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
E	CHASE WALL	4.50 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	SIPS PANEL	91.13 SF	(12-10) (12)
H	HALLWAY	12.90 SF	Density ZR 28-41
I	HALLWAY	22.05 SF	Density ZR 28-41
J	HALLWAY	2.23 SF	Density ZR 28-41
K	HALLWAY	2.99 SF	Density ZR 28-41

Area Schedule (Deduction)			
Name	Deduction Type	Area	Reason
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	12.23 SF	28-23
O	SHAFT	5.42 SF	Open To Below
P	SHAFT	5.96 SF	Open To Below
Q	SHAFT	2.69 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	4.84 SF	
U	MECH. FAN COIL	5.93 SF	
V	MECH. FAN COIL	5.93 SF	
W	MECH. FAN COIL	5.93 SF	
X	OPEN TO BELOW	3.76 SF	Open To Below
24		216.84 SF	
6TH FLOOR			
A	CHASE WALL	1.30 SF	(12-10) (8)
B	CHASE WALL	1.32 SF	(12-10) (8)
C	CHASE WALL	1.59 SF	(12-10) (8)
D	CHASE WALL	1.65 SF	(12-10) (8)
E	CHASE WALL	4.50 SF	(12-10) (8)
F	CHASE WALL	4.50 SF	(12-10) (8)
G	EXTERIOR WALL	83.26 SF	(12-10)(12)
H	HALLWAY	12.90 SF	Density ZR 28-41
I	HALLWAY	22.05 SF	Density ZR 28-41
J	HALLWAY	2.23 SF	Density ZR 28-41
K	HALLWAY	2.99 SF	Density ZR 28-41
L	MECH SHAFT	4.33 SF	Open To Below
M	MECH SHAFT	4.67 SF	Open To Below
N	REFUSE RM.	12.23 SF	28-23
O	SHAFT	5.12 SF	Open To Below
P	SHAFT	5.68 SF	Open To Below
Q	SHAFT	2.77 SF	Open To Below
R	SHAFT	2.99 SF	Open To Below
S	MECH. FAN COIL	5.93 SF	
T	MECH. FAN COIL	5.93 SF	
U	MECH. FAN COIL	5.93 SF	
V	MECH. FAN COIL	5.93 SF	
W	OPEN TO BELOW	3.76 SF	Open To Below
23		203.57 SF	
ROOF			
A	MECH RM	138.37 SF	28-23
B	SHAFT WALL	3.47 SF	Open To Below
C	TRASH CHUTE	4.33 SF	Open To Below
D	MECH RM	4.67 SF	Open To Below
E	MECH RM	28.45 SF	28-23
F	MECH SHAFT	87.73 SF	28-23
G	SIPS PANEL	51.87 SF	(12-10) (2)
H	SIPS PANEL	17.40 SF	(12-10) (2)
I	ELEV. HOISTWAY	60.49 SF	(12-10) (2)
J	BULKHEAD	63.51 SF	(12-10) (2)
10		460.28 SF	
Grand total: 132		4,216.37 SF	

Revision No.	Date	Remarks

N

Project Manager/Designer:
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Structural Engineer:
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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING DEDUCTION AREA COMPUTATIONS

DWG #
Z-005.00

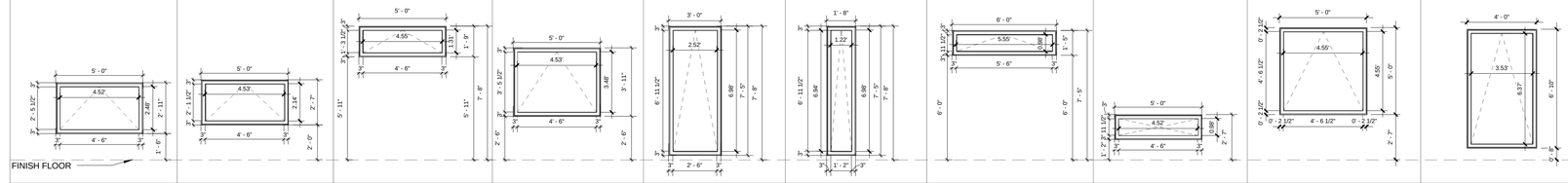
Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK

Date: 04/26/13
Scale: 1/8" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

WINDOW SCHEDULE

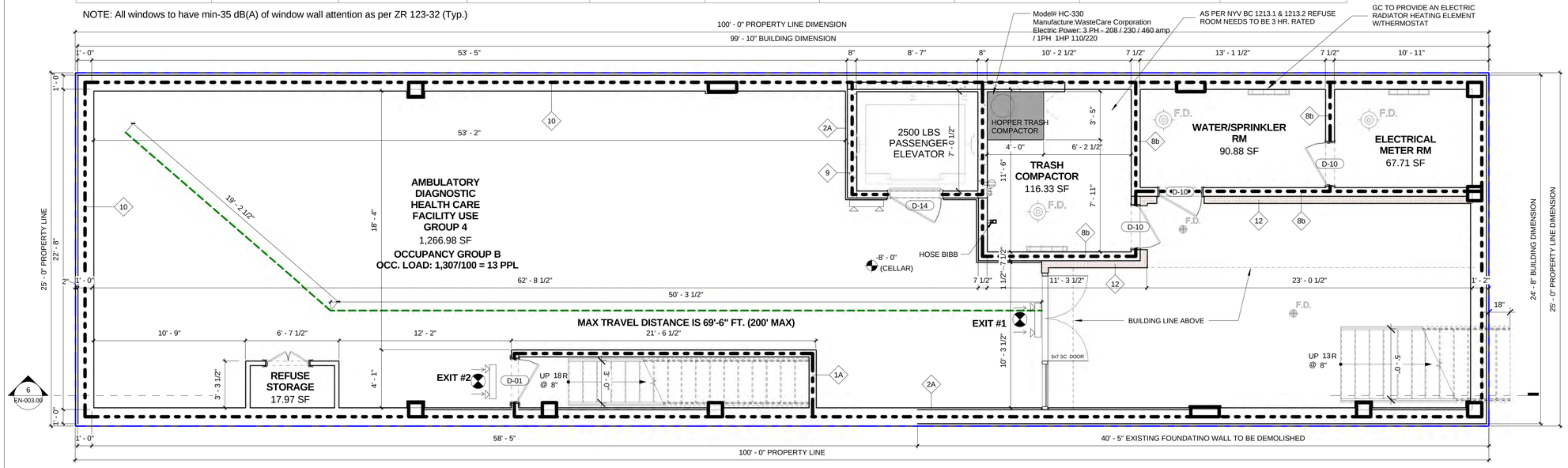
W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
LIGHT = 7.68 SF	LIGHT = 8.47 SF	LIGHT = 5.96 SF	LIGHT = 15.76 SF	LIGHT = 12.47 SF	LIGHT = 6.04 SF	LIGHT = 5.44 SF	LIGHT = 0 SF	LIGHT = 20.70 SF	LIGHT = 22.48 SF
VENTILATION = 7.68 SF	VENTILATION = 8.47 SF	VENTILATION = 5.96 SF	VENTILATION = 15.76 SF	VENTILATION = 12.47 SF	VENTILATION = 6.04 SF	VENTILATION = 5.44 SF	VENTILATION = 0 SF	VENTILATION = 20.70 SF	



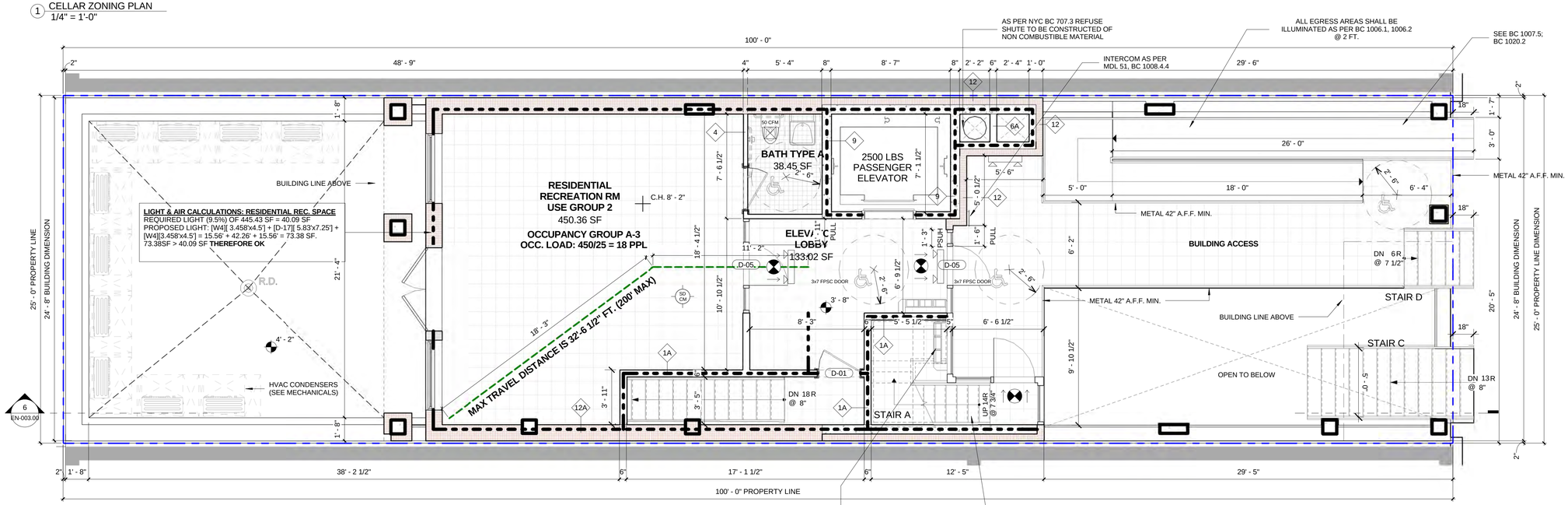
NOTE: All windows to have min-35 dB(A) of window wall attention as per ZR 123-32 (Typ.)

LEGEND

PLAN	2 HR FIRE PARTITION
CM SD PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
A.D PLAN	AREA DRAIN
H.W.H PLAN	HOT WATER HEATER



1 CELLAR ZONING PLAN
1/4" = 1'-0"



2 Z - 1st Floor
1/4" = 1'-0"

Revision No.	Date	Remarks

Project Manager/Designer:
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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING & CODE COMPLIANCE CELLAR & 1ST FL. PLAN

DWG #
Z-006.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 023957 STATE OF NEW YORK

Date: 06/25/13
Scale: 1/4" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

WINDOW SCHEDULE

W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
LIGHT = 7.68 SF	LIGHT = 8.47 SF	LIGHT = 5.96 SF	LIGHT = 15.76 SF	LIGHT = 12.47 SF	LIGHT = 6.04 SF	LIGHT = 5.44 SF	LIGHT = 0 SF	LIGHT = 20.70 SF	LIGHT = 22.48 SF
VENTILATION = 7.68 SF	VENTILATION = 8.47 SF	VENTILATION = 5.96 SF	VENTILATION = 15.76 SF	VENTILATION = 12.47 SF	VENTILATION = 6.04 SF	VENTILATION = 5.44 SF	VENTILATION = 0 SF	VENTILATION = 20.70 SF	

FINISH FLOOR

NOTE: All windows to have min-35 dB(A) of window wall attention as per ZR 123-32 (Typ.)

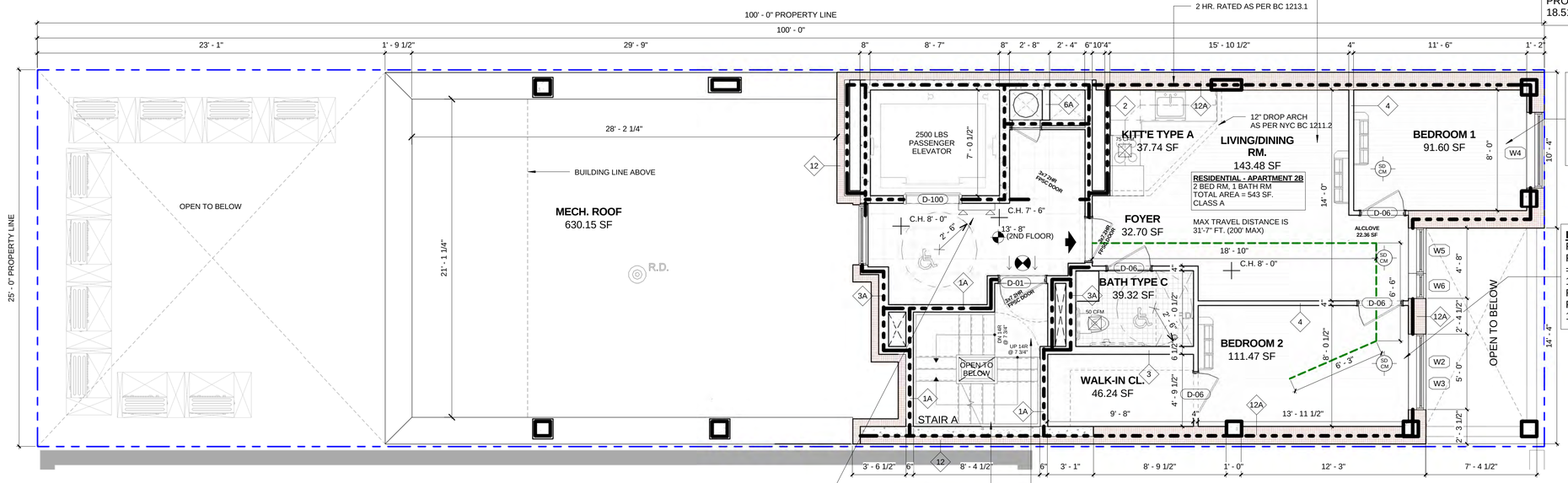
LEGEND

PLAN	2 HR FIRE PARTITION	75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN	R.D PLAN	ROOF DRAIN
CM SD PLAN	SD/CO	50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN	A.D PLAN	AREA DRAIN
PLAN	LOT LINE SPR. HD	PLAN	EXIT SIGNS	H.W.H PLAN	HOT WATER HEATER
PLAN	DOOR #	PLAN	EMERGENCY LIGHTS		
D PLAN	WINDOW #	F.D PLAN	FLOOR DRAIN		
PLAN	WALL TAG (A-605.00)				

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 143.48 SF = 14.35 SF
PROPOSED LIGHT: [W5](4.95'x2.52')+[W6](4.95'x1.22') = 18.51 SF
18.51 SF > 14.35 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 143.48 SF = 7.17 SF
PROPOSED AIR: [W5]+[W6] = 18.51 SF
18.51 SF > 7.17 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 91.60 SF = 9.16 SF
PROPOSED LIGHT: [W4](3.48'x4.53') = 15.76 SF
15.76 SF > 9.16 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 91.60 SF = 4.58 SF
PROPOSED AIR: [W4] = 15.76 SF
15.76 SF > 4.58 SF **THEREFORE OK**

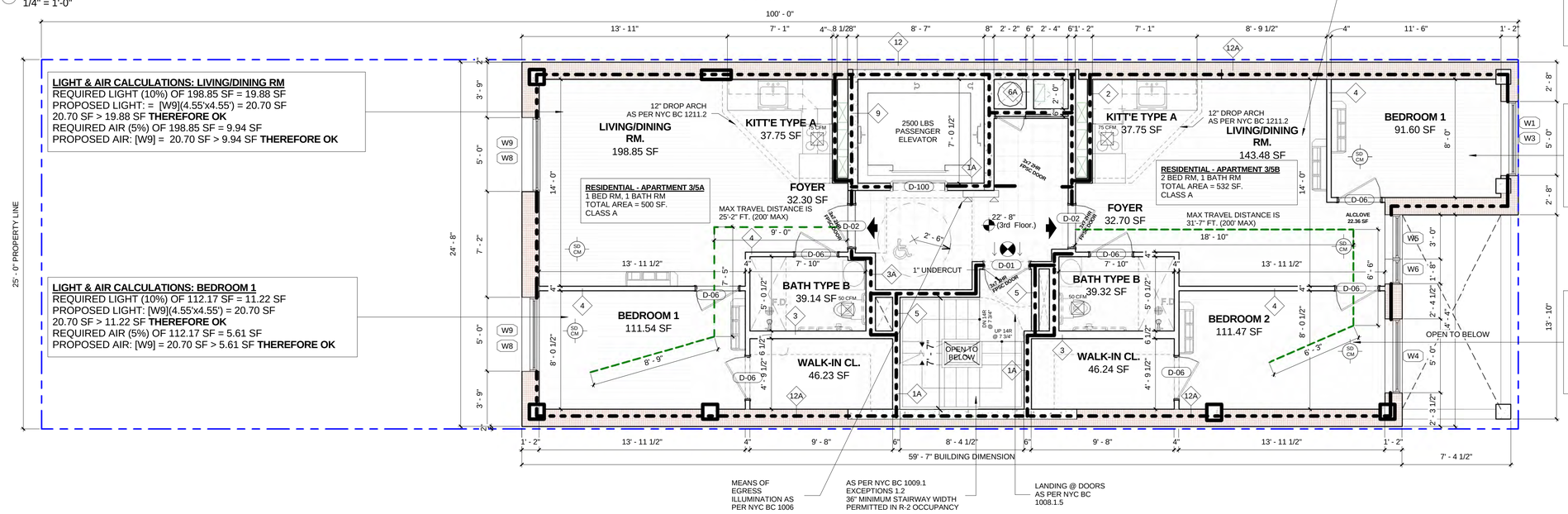
LIGHT & AIR CALCULATIONS: BEDROOM 2
REQUIRED LIGHT (10%) OF 112.09 SF = 11.21 SF
PROPOSED LIGHT:[W2](1.87'x4.53')+[W3](1.31'x4.55')
=14.43 SF
14.43 SF > 11.21 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.09 SF = 5.60 SF
PROPOSED AIR: [W2]+[W3] = 14.43 SF
14.43 > 5.60 SF **THEREFORE OK**



2 Z - 2ND FL.
1/4" = 1'-0"

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 198.85 SF = 19.88 SF
PROPOSED LIGHT: = [W9](4.55'x4.55') = 20.70 SF
20.70 SF > 19.88 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 198.85 SF = 9.94 SF
PROPOSED AIR: [W9] = 20.70 SF > 9.94 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 112.17 SF = 11.22 SF
PROPOSED LIGHT: [W9](4.55'x4.55') = 20.70 SF
20.70 SF > 11.22 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.17 SF = 5.61 SF
PROPOSED AIR: [W9] = 20.70 SF > 5.61 SF **THEREFORE OK**



1 Z - 3RD & 5TH FL.
1/4" = 1'-0"

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 143.48 SF = 14.35 SF
PROPOSED LIGHT: [W5](4.95'x2.52')+[W6](4.95'x1.22') = 18.51 SF
18.51 SF > 14.35 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 143.48 SF = 7.17 SF
PROPOSED AIR: [W5]+[W6] = 18.51 SF
18.51 SF > 7.17 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 91.60 SF = 9.16 SF
PROPOSED LIGHT:[W1](1.7'x4.52')+[W3](1.31'x4.55') =
13.64 SF
13.64 SF > 9.16 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 91.60 SF = 4.58 SF
PROPOSED AIR: [W1]+[W3] = 13.64 SF
13.64 SF > 4.58 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 2
REQUIRED LIGHT (10%) OF 112.09 SF = 11.21 SF
PROPOSED LIGHT:[W4](3.48'x4.53') =
15.76 SF
15.76 SF > 11.21 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.09 SF = 5.60 SF
PROPOSED AIR: [W4] = 15.76 SF
15.76 SF > 5.60 SF **THEREFORE OK**

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING & CODE COMPLIANCE 2ND & 3RD/5TH FL. PLAN

DWG #
Z-007.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 023867 STATE OF NEW YORK

Date:	06/25/13
Scale:	1/4" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

WINDOW SCHEDULE

W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
LIGHT = 7.68 SF	LIGHT = 8.47 SF	LIGHT = 5.96 SF	LIGHT = 15.76 SF	LIGHT = 12.47 SF	LIGHT = 6.04 SF	LIGHT = 5.44 SF	LIGHT = 0 SF	LIGHT = 20.70 SF	LIGHT = 22.48 SF
VENTILATION = 7.68 SF	VENTILATION = 8.47 SF	VENTILATION = 5.96 SF	VENTILATION = 15.76 SF	VENTILATION = 12.47 SF	VENTILATION = 6.04 SF	VENTILATION = 5.44 SF	VENTILATION = 0 SF	VENTILATION = 20.70 SF	

NOTE: All windows to have min-35 dB(A) of window wall attention as per ZR 123-32 (Typ.)

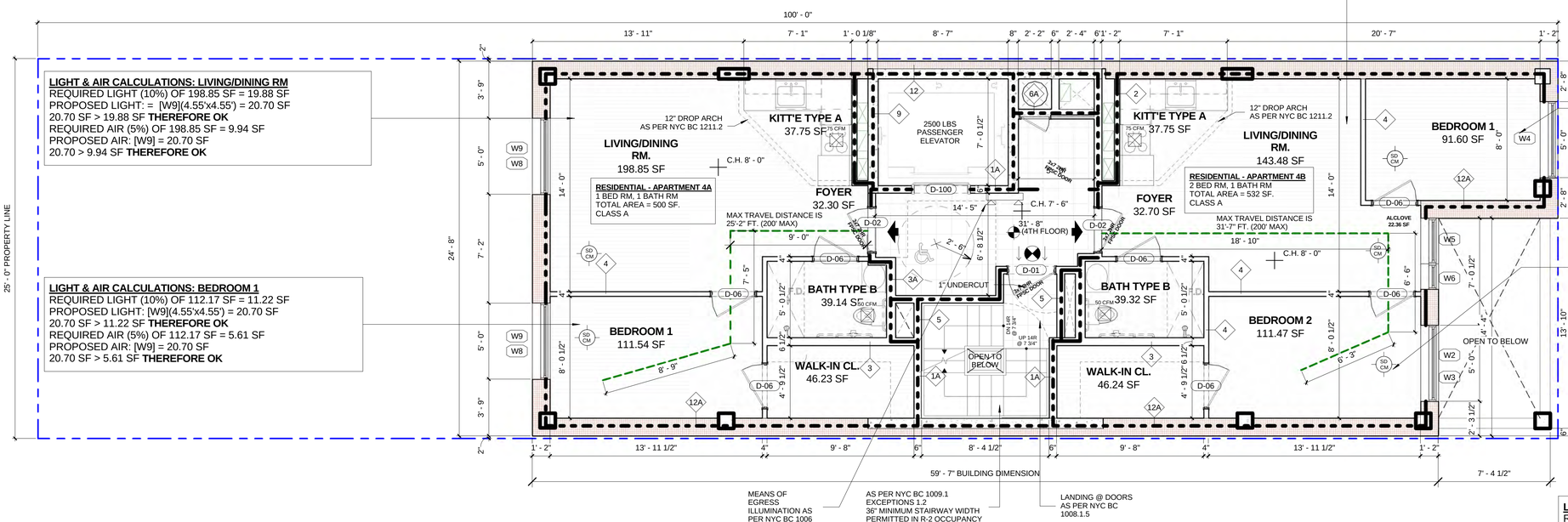
LEGEND

PLAN	2 HR FIRE PARTITION	75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN	R.D PLAN	ROOF DRAIN
CM SD PLAN	SD/CO	50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN	A.D PLAN	AREA DRAIN
PLAN	LOT LINE SPR. HD	PLAN	EXIT SIGNS	H.W.H PLAN	HOT WATER HEATER
PLAN	DOOR #	PLAN	EMERGENCY LIGHTS		
PLAN	WINDOW #	F.D PLAN	FLOOR DRAIN		
PLAN	WALL TAG (A-605.00)				

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 143.48 SF = 14.35 SF
PROPOSED LIGHT: [W5](4.95'x2.52')+[W6](4.95'x1.22') = 18.51 SF
18.51 SF > 14.35 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 143.48 SF = 7.17 SF
PROPOSED AIR: [W5]+[W6] = 18.51 SF
18.51 SF > 7.17 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 91.60 SF = 9.16 SF
PROPOSED LIGHT: [W4](3.48'x4.53') = 15.76 SF
15.76 SF > 9.16 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 91.60 SF = 4.58 SF
PROPOSED AIR: [W4] = 15.76 SF
15.76 SF > 4.58 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 2
REQUIRED LIGHT (10%) OF 112.09 SF = 11.21 SF
PROPOSED LIGHT:[W2](1.87'x4.53')+[W3](1.31'x4.55') =14.43 SF
14.43 SF > 11.21 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.09 SF = 5.60 SF
PROPOSED AIR: [W2]+[W3] = 14.43 SF
14.43 SF > 5.60 SF **THEREFORE OK**

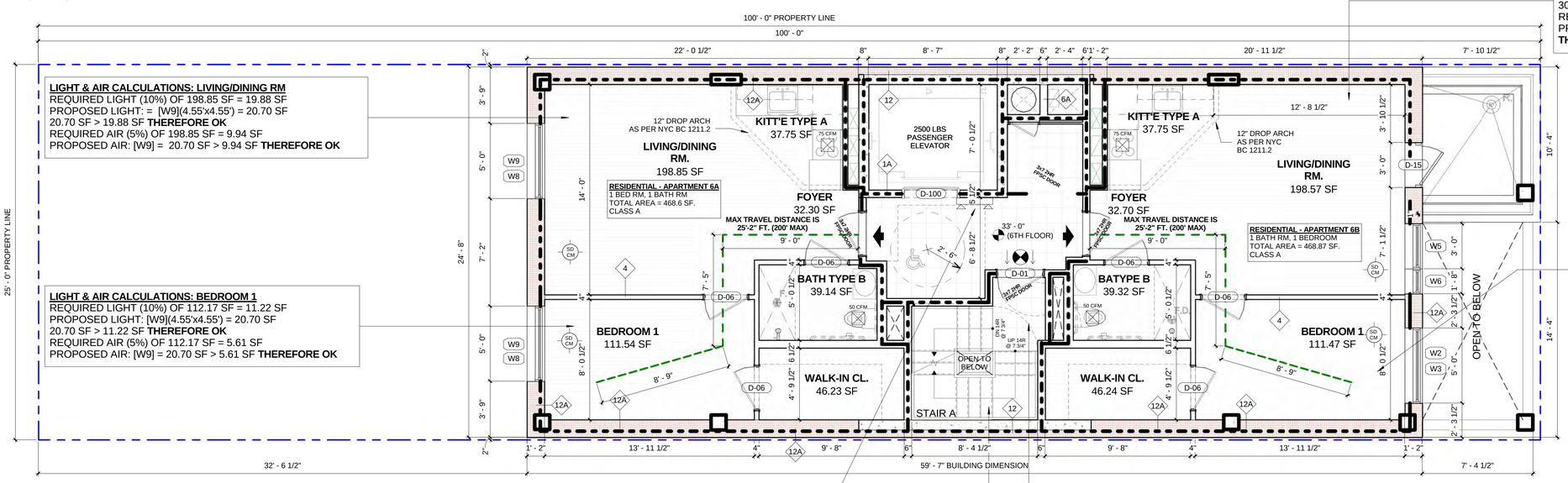


1 Z - 4TH FL. PLAN
1/4" = 1'-0"

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 198.85 SF = 19.88 SF
PROPOSED LIGHT: = [W9](4.55'x4.55') = 20.70 SF
20.70 SF > 19.88 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 198.85 SF = 9.94 SF
PROPOSED AIR: [W9] = 20.70 SF
20.70 > 9.94 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: BEDROOM 1
REQUIRED LIGHT (10%) OF 112.17 SF = 11.22 SF
PROPOSED LIGHT: [W9](4.55'x4.55') = 20.70 SF
20.70 SF > 11.22 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.17 SF = 5.61 SF
PROPOSED AIR: [W9] = 20.70 SF
20.70 SF > 5.61 SF **THEREFORE OK**

LIGHT & AIR CALCULATIONS: LIVING/DINING RM
REQUIRED LIGHT (10%) OF 198.57 SF = 19.86 SF
PROPOSED LIGHT: [W5](4.95'x2.52')+[W6](4.95'x1.22')+[D-15] (6.00'x2.00') = SF
30.28 SF > 19.86 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 198.57 SF = 9.93 SF
PROPOSED AIR: [W5]+[W6]+[D-15] = 36.18 SF > 9.93 SF **THEREFORE OK**



2 Z - 6TH FL.
1/4" = 1'-0"

LIGHT & AIR CALCULATIONS: BEDROOM 2
REQUIRED LIGHT (10%) OF 112.09 SF = 11.21 SF
PROPOSED LIGHT:[W2](1.87'x4.53')+[W3](1.31'x4.55') =14.43 SF
14.43 SF > 11.21 SF **THEREFORE OK**
REQUIRED AIR (5%) OF 112.09 SF = 5.60 SF
PROPOSED AIR: [W2]+[W3] = 14.43 SF
14.43 > 5.60 SF **THEREFORE OK**

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING & CODE COMPLIANCE 4TH & 6TH FL. PLAN

DWG #
Z-008.00

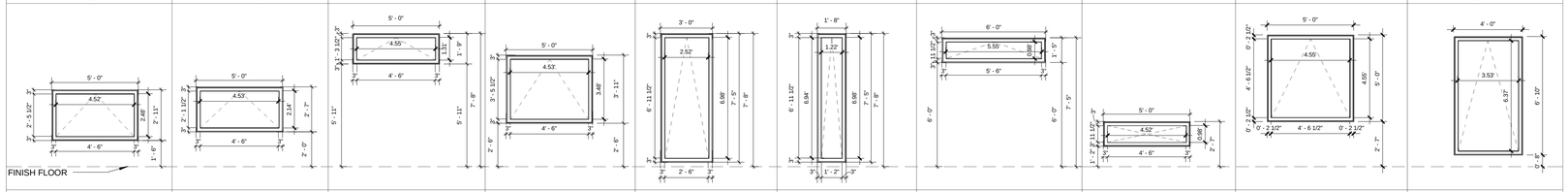
Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 023917 STATE OF NEW YORK

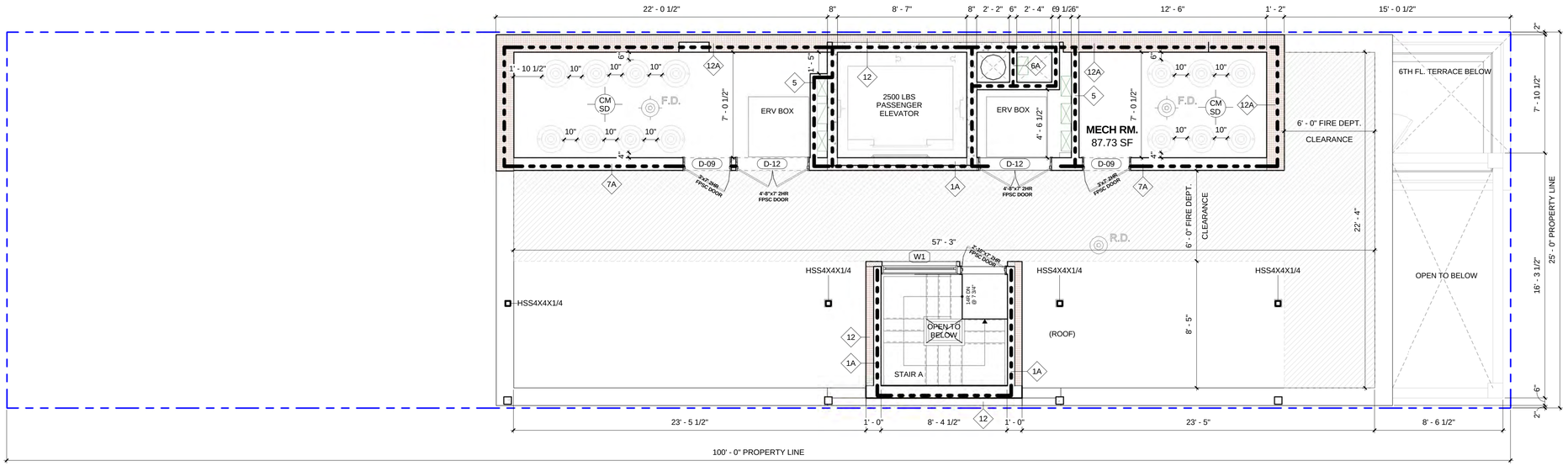
Date: 06/25/13
Scale: 1/4" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

WINDOW SCHEDULE

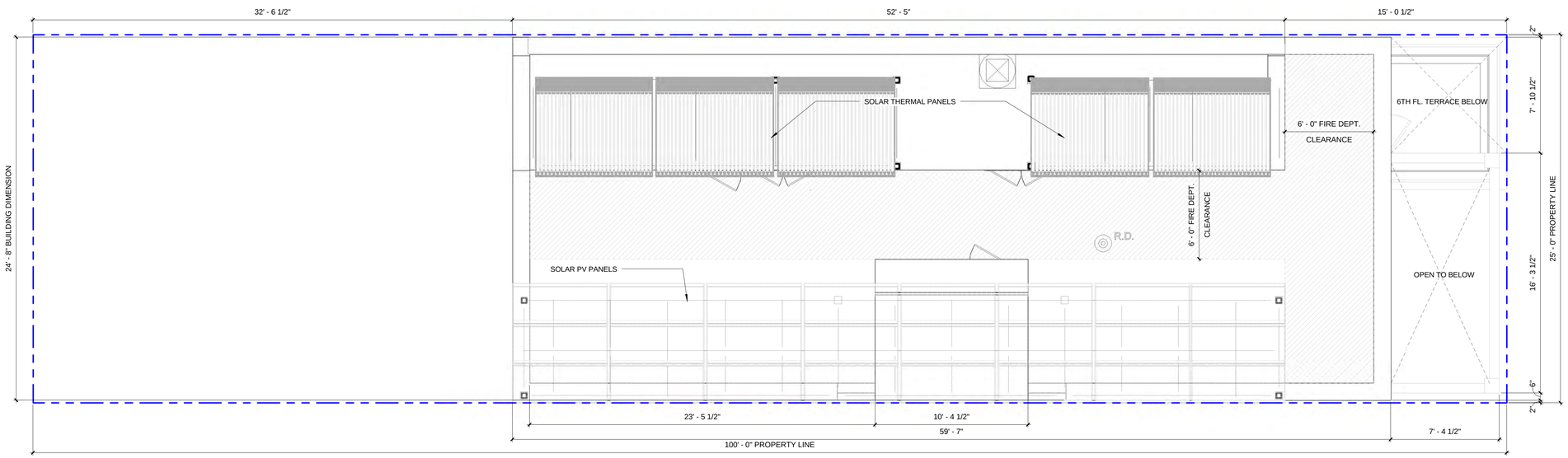
W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
LIGHT = 7.68 SF	LIGHT = 8.47 SF	LIGHT = 5.96 SF	LIGHT = 15.76 SF	LIGHT = 12.47 SF	LIGHT = 6.04 SF	LIGHT = 5.44 SF	LIGHT = 0 SF	LIGHT = 20.70 SF	LIGHT = 22.48 SF
VENTILATION = 7.68 SF	VENTILATION = 8.47 SF	VENTILATION = 5.96 SF	VENTILATION = 15.76 SF	VENTILATION = 12.47 SF	VENTILATION = 6.04 SF	VENTILATION = 5.44 SF	VENTILATION = 0 SF	VENTILATION = 20.70 SF	



NOTE: All windows to have min-35 dB(A) of window wall attention as per ZR 123-32 (Typ.)



1 Z - Roof
1/4" = 1'-0"



2 Z - BULKHEAD
1/4" = 1'-0"

LEGEND

PLAN	2 HR FIRE PARTITION
CM SD PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
A.D PLAN	AREA DRAIN
H.W.H PLAN	HOT WATER HEATER

Revision No.	Date	Remarks

N

Project Manager/Designer:
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New York NY 10038
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Mechanical Engineer:
TSF Engineering P.C.
George Skandalakis
200 Park Avenue South Suite 916
New York, NY 10003
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Civil Engineer:
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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ZONING & CODE COMPLIANCE ROOF & BULKHEAD PLAN

DWG #
Z-009.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK

Date:	07/08/13
Scale:	1/4" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

ENERGY CODE NOTES
This project is subject to regulations of ECC of New York State 2010.
101.4 Applicability
101.4.1 Existing buildings. Except as specified in this chapter, this code shall not be used to require the removal, *alteration* or abandonment of, nor prevent the continued use and maintenance of, an existing building or building system lawfully in existence at the time of adoption of this code.

101.4.3 Additions, alterations or renovations. It is intended that this code apply to additions, alterations, and renovations to existing residential building in all cases where the 2009 IECC would apply, and that this code shall apply to additions, alterations and renovations to existing commercial buildings in all cases where ASHRAE 90.1-2007 would apply. Additions, alterations or renovations to an existing building, building system or portion thereof shall conform to the provisions of this code as they relate to new construction without requiring the unaltered portion(s) of the existing building or building system to comply with this code. Additions, alterations or renovations shall not create an unsafe or hazardous condition or overload existing building systems. An addition shall be deemed to comply with this code if (1) the addition alone complies with this code, or (2) the existing building and addition considered as a single building comply with this code.

Exceptions: The following need not comply with the provisions of this code, provided the energy use of the building is not increased:
1. Storm windows installed over existing fenestration.
2. Glass only replacements in an existing sash and frame, provided the *U*-factor and the solar heat gain coefficient (SHGC) will be equal to or lower than before the glass replacement.
3. Alterations, renovations or repairs to roof/ceiling, wall or floor cavities which are insulated to full depth with insulation having a minimal nominal value of R-3.0/inch.
4. Alterations, renovations or repairs to walls and floors, where the existing structure is without framing cavities and no new framing cavities are created.
5. Reroofing where neither the sheathing nor the insulation is exposed. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.
6. Replacement of existing doors that separate *conditioned space* from the exterior shall not require the installation of a vestibule or revolving door, provided, however, that an existing vestibule that separates a *conditioned space* from the exterior shall not be removed.
7. An alteration that replaces less than 50 percent of the luminaires in a space, provided that such alteration does not increase the installed interior lighting power.
8. An alteration that replaces only the bulb and ballast within the existing luminaires in a space, provided that such *alteration* does not increase the installed interior lighting power.

101.5 Compliance. *Residential* buildings shall meet the provisions of Chapter 4. *Commercial* buildings shall meet the provisions of Chapter 5. Where a building includes both residential and commercial occupancies, each occupancy shall be separately considered and meet the applicable provisions of Chapter 4 for residential and Chapter 5 for commercial.

SECTION 103 CONSTRUCTION DOCUMENTS

103.2.1 Written statement.
To the best of his/her knowledge, belief and professional judgment, such plans or specifications are in compliance with this code.

SECTION 104 INSPECTIONS
104.1 General. Construction or work for which a permit is required shall be subject to inspection by the *code enforcement official*. Administration and enforcement of this code shall be in accordance with local law subject to the minimum requirements of Part 1203 of Title 19 (NYS Department of State Rules and Regulations).
104.3 Final inspection. The building shall have a final inspection and not be occupied until *approved*.
104.6 Inspection requests. It shall be the duty of the holder of the permit or their duly authorized agent to notify the *code enforcement official* when work is ready for inspection. It shall be the duty of the permit holder to provide access to and means for inspections of such work that are required by this code.
104.7 Reinspection and testing. Where any work or installation does not pass an initial test or inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the *code enforcement official* for inspection and testing.
104.8 Approval. After the prescribed tests and inspections indicate that the work complies in all respects with this code, a notice of approval shall be issued by the *code enforcement official*.

SECTION 301 CLIMATE ZONES
301.1 General. Climate *zones* from Table 301.1 shall be used in determining the applicable requirements from Chapters 4 and 5.

SECTION 302 DESIGN CONDITIONS
302.1 Interior design conditions. The interior design temperatures used for heating and cooling load calculations shall be a maximum of 72°F (22°C) for heating and minimum of 75°F (24°C) for cooling.
TABLE 301.1 CLIMATE ZONES BY COUNTY, ALL ZONES ARE CATEGORY "A" OR, MOIST DESIGNATIONS

Climate Zone 4			
Bronx	Nassau	Queens	Suffolk
Kings	New York	Richmond	Westchester

303.1.1 Building thermal envelope insulation. An *R*-value identification mark shall be applied by the manufacturer to each piece of *building thermal envelope* insulation 12 inches (305 mm) or greater in width. Alternately, the insulation installers shall provide a certification listing the type, manufacturer and *R*-value of insulation installed in each element of the *building thermal envelope*. For blown or sprayed insulation (fiberglass and cellulose), the initial installed thickness, settled thickness, settled *R*-value, installed density, coverage area and number of bags installed shall be *listed* on the certification. For sprayed polyurethane foam (SPF) insulation, the installed thickness of the areas covered and *R*-value of installed thickness shall be *listed* on the certification. The insulation installer shall sign, date and post the certification in a conspicuous location on the job site.

303.1.1.1 Blown or sprayed roof/ceiling insulation. The thickness of blown-in or sprayed roof/ceiling insulation (fiberglass or cellulose) shall be written in inches (mm) on markers that are installed at least one for every 300 square feet (28 m2) throughout the attic space. The markers shall be affixed to the trusses or joists and marked with the minimum initial installed thickness with numbers a minimum of 1 inch (25 mm) in height. Each marker shall face the attic access opening. Spray polyurethane foam thickness and installed *R*-value shall be *listed* on certification provided by the insulation installer.

303.1.2 Insulation mark installation. Insulating materials shall be installed such that the manufacturer's *R*-value mark is readily observable upon inspection.

303.1.3 Fenestration product rating. *U*-factors of fenestration products (windows, doors and skylights) shall be determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled *U*-factor shall be assigned a default *U*-factor from Table 303.1.3(1) or 303.1.3(2). The solar heat gain coefficient (SHGC) of glazed fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled SHGC shall be assigned a default SHGC from Table 303.1.3(3).
TABLE 303.1.3(1) DEFAULT GLAZED FENESTRATION *U*-FACTORS

FRAME TYPE	SINGLE PANE	DOUBLE PANE	SKYLIGHT	
			SINGLE	DOUBLE
Metal	1.2	0.8	2	1.3
Metal with thermal break	1.1	0.65	1.9	1.1
Nonmetal or metal clad	0.95	0.55	1.75	1.05
Glazed block	0.6			

TABLE 303.1.3(2) DEFAULT DOOR *U*-FACTORS

DOOR TYPE	*U*- FACTOR
Uninsulated metal	1.2
Insulated metal	0.6
Wood	0.5
Insulated, nonmetal edge, max 45% glazing, any glazing double pane	0.35

TABLE 303.1.3(3) DEFAULT GLAZED FENESTRATION SHGC

SINGLE GLAZED		DOUBLE GLAZED		GLAZED BLOCK
Clear	Tinted	Clear	Tinted	
0.8	0.7	0.7	0.6	0.6

303.1.4 Insulation product rating. The thermal resistance (*R*-value) of insulation shall be determined in accordance with the U.S. Federal Trade Commission *R*-value rule (CFR Title 16, Part 460, May 31, 2005) in units of h x ft2 x °F/Btu at a mean temperature of 75°F (24°C).

303.2 Installation. All materials, systems and equipment shall be installed in accordance with the manufacturer's installation instructions and the *Uniform Fire Prevention and Building Code*, and in the City of New York, the *New York City Construction Codes*.
303.2.1 Protection of exposed foundation insulation. Insulation applied to the exterior of basement walls, crawl space walls and the perimeter of slab-on-grade floors shall have a rigid, opaque and weather-resistant protective covering to prevent the degradation of the insulation's thermal performance. The protective covering shall cover the exposed exterior insulation and extend a minimum of 6 inches (153 mm) below grade.

303.3 Maintenance information. Maintenance instructions shall be furnished for equipment and systems that require preventive maintenance. Required regular maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label shall include the title or publication number for the operation and maintenance manual for that particular model and type of product.

NOTES APPLICABLE TO RESIDENTIAL BUILDING OR PORTION
CHAPTER 4
401.3 Certificate. A permanent certificate shall be posted on or in the electrical distribution panel. The certificate shall not cover or obstruct visibility of the circuit directory label, service disconnect label or other required labels. The certificate shall be completed by the builder or registered design professional. The certificate shall list the predominant *R*-values of insulation installed in or on ceiling/roof, walls, foundation (slab, *basement wall*, crawl space wall and/or floor) and ducts outside conditioned spaces; *U*-factors for fenestration. Where there is more than one value for each component, the certificate shall list the value covering the largest area. The certificate shall list the types and efficiencies of heating, cooling and service water heating equipment. Where a gas-fired unvented room heater, electric furnace, and/or baseboard electric heater is installed in the residence, the certificate shall list "gas-fired unvented room heater," "electric furnace," or "baseboard electric heater" as appropriate. An efficiency shall not be *listed* for gas-fired unvented room heaters, electric furnaces, or electric baseboard heaters.
SECTION 402 BUILDING THERMAL ENVELOPE
402.1.1 Insulation and fenestration criteria. The *building thermal envelope* shall meet the requirements of Table 402.1.1
TABLE 402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

CLIMATE ZONE	FENESTRATION	SKYLIGHT[b]	CEILING	WOOD FRAME WALL	MASS WALL	FLOOR	BASEMENT[c] WALL	SLAB[d]	CRAWL SPACE[f]
	U-FACTOR[b]	*U*-FACTOR[b]	*R*-VALUE	*R*-VALUE[i]	*R*-VALUE[g]	*R*-VALUE	*R*-VALUE	*R*-VALUE & DEPTH	*R*-VALUE
4	0.35	0.6	38	13	5/10[j]	19	10 / 13[c]	10, 2 ft[e]	10 / 13[c]

For SI: 1 foot = 304.8 mm.

a. *R*-values are minimums. *U*-factors and SHGC are maximums. R-19 batts compressed into a nominal 2 × 6 framing cavity such that the *R*-value is reduced by R-1 or more shall be marked with the compressed batt *R*-value in addition to the full thickness *R*-value.

b. The fenestration *U*-factor column excludes skylights.

c. The first value shown represents minimum "R" value of continuous insulated sheathing on the interior or the exterior of the wall, the second value shown represents minimum "R" value of cavity insulation at the interior of the basement wall. "10/13" means R-10 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

d. R-5 shall be added to the required slab edge *R*-values for heated slabs.

e. Or insulation sufficient to fill the framing cavity, R-19 minimum.

f. "13 + 5" means R-13 cavity insulation plus R-5 insulated sheathing. When structural sheathing is utilized per requirements of the *Residential Code of New York State*, Section R602.10 Wall Bracing (or per requirements of the *Building Code of New York State*, Section 2309.8.3 Bracing), insulating sheathing with a minimum value R-2 shall be added over the required structural sheathing. All other areas must be sheathed with insulating sheathing of R-5 as indicated by the table. If 100 percent continuous structural panel sheathing is used on a 2 × 4 wall, then R-5 continuous insulated sheathing must also be applied over the structural sheathing.

g. The second *R*-value applies when more than half the insulation is on the interior of the mass wall.
402.1.3 *U*-factor alternative. An assembly with a *U*-factor equal to or less than that specified in Table 402.1.3 shall be permitted as an alternative to the *R*-value in Table
TABLE 402.1.3 EQUIVALENT *U*-FACTORSa

CLIMATE ZONE	FENESTRATION *U*-FACTOR	SKYLIGHT *U*-FACTOR	CEILING *U*-FACTOR	FRAME WALL *U*-FACTOR	MASS WALL *U*-FACTOR[b]	FLOOR *U*-FACTOR	BASEMENT WALL *U*-FACTOR	CRAWL SPACE WALL *U*-FACTOR
4	0.35	0.6	0.03	0.082	0.141	0.047	0.059	0.065

402.2 Specific insulation requirements (Prescriptive).
402.2.1 Ceilings with attic spaces. When Section 402.1.1 would require R-38 in the ceiling, R-30 shall be deemed to satisfy the requirement for R-38 wherever the full height of uncompressed R-30 insulation extends over the wall top plate at the eaves
402.2.1.1 Unvented attic assemblies. Unvented attic assemblies (spaces between the ceiling joists of the top story and the roof rafters) shall be permitted in one- and two-family dwellings and multiple single-family dwellings (townhouses) as defined by the *Residential Code of New York State* if all the following conditions are met:
1. The unvented attic space is completely contained within the building thermal envelope.
2. No interior vapor retarders (Class I or II) are installed on the ceiling side (attic floor) of the unvented attic assembly.
3. Where wood shingles or shakes are used, a minimum 1/4 inch (6 mm) vented air space separates the shingles or shakes and the roofing underlayment above the structural sheathing.
5. Either Item 5.1, 5.2 or 5.3 shall be met, depending on the air permeability of the insulation directly under the structural roof sheathing.
5.1. Air-impermeable (e.g., spray foam) insulation only. Insulation shall be applied in direct contact with the underside of the structural roof sheathing.
5.2. Air-permeable (e.g., fiberglass or cellulose) insulation only. In addition to the air-permeable insulation installed directly below the structural sheathing, rigid board sheet insulation shall be installed directly above the structural roof sheathing as specified in Table R402.2.1.1 for condensation control.
5.3. Air-impermeable and air-permeable insulation. The air-impermeable (e.g., spray foam) insulation shall be applied in direct contact with the underside of the structural roof sheathing as specified in Table R402.2.1.1 for condensation control. The air-permeable (e.g., fiberglass or cellulose) insulation shall be installed directly under the air-impermeable (e.g., spray foam) insulation.
TABLE 402.2.1.1 INSULATION FOR CONDENSATION CONTROL

CLIMATE ZONE	MINIMUM RIGID BOARD OR AIR-IMPERMEABLE INSULATION R-VALUE[A]
4	R-15

402.2.2 Existing ceiling/roof assemblies without attic spaces (includes cathedral ceilings). Where Section 402.1.1 would require insulation levels above R-30 and the design of the roof/ceiling assembly does not allow sufficient space for the required insulation, the minimum required insulation for such roof/ceiling assemblies shall be R-30. This reduction of insulation from the requirements of Section 402.1.1 shall be limited to 500 square feet (46 m2) or 20 percent of the total insulated ceiling area, whichever is less. This reduction shall not apply to the *U*-factor alternative approach in Section 402.1.3 and the total UA alternative in Section 402.1.4.

402.2.3 Access hatches and doors (Mandatory). Access doors from conditioned spaces to unconditioned spaces (e.g., attics and crawl spaces) shall be weatherstripped and insulated to a level equivalent to the insulation on the surrounding surfaces. Access shall be provided to all equipment which prevents damaging or compressing the insulation. A wood framed or equivalent baffle or retainer is required to be provided when loose fill insulation is installed, the purpose of which is to prevent the loose fill insulation from spilling into the living space when the attic access is opened, and to provide a permanent means of maintaining the installed *R*-value of the loose fill insulation.

402.2.4 Mass walls. Mass walls for the purposes of this Chapter shall be considered above-grade walls of concrete block, concrete, insulated concrete form (ICF), masonry cavity, brick (other than brick veneer), earth (adobe, compressed earth block, rammed earth) and solid timber/logs.

402.2.5 Steel-frame ceilings, walls and floors. Steel- frame ceilings, walls and floors shall meet the insulation requirements of Table 402.2.5, or shall meet the *U*-factor requirements of Table 402.1.3. The calculation of the *U*-factor for a steel-frame envelope assembly shall use a series-parallel path calculation method.
TABLE 402.2.5 STEEL-FRAME CEILING, WALL AND FLOOR INSULATION (*R*-VALUE)

WOOD FRAME *R*-VALUE REQUIREMENT	COLD-FORMED STEEL EQUIVALENT *R*-VALUE[a]
Steel Truss Ceilings[b]	
R-30	R-38 or R-30 + 3 or R-26 + 5
R-38	R-49 or R-38 + 3
R-49	R-38 + 5
Steel Joist Ceilings[b]	
R-30	R-38 in 2 × 4 or 2 × 6 or 2 × 8 R-49 in any framing
R-38	R-49 in 2 × 4 or 2 × 6 or 2 × 8 or 2 × 10
Steel Framed Wall	
R-13	R-13 + 5 or R-15 + 4 or R-21 + 3 or R-0 + 10
R-20	R-13 + 10 or R-19 + 9 or R-25 + 8
Steel Joist Floor	
R-30	R-38 or R-30 + 3 or R-26 + 5
R-19	R-19 + 6 in 2 × 6 R-19 + 12 in 2 × 8 or 2 × 10

For SI: 1 inch = 25.4 mm.

a. Cavity insulation *R*-value is listed first, followed by continuous insulation *R*-value.
b. Insulation exceeding the height of the framing shall cover the framing.
402.2.6 Floors. Floor insulation shall be installed to maintain permanent contact with the underside of the subfloor decking.

402.2.7 Basement walls. Walls associated with conditioned basements shall be insulated from the top of the *basement wall* down to 10 feet (3048 mm) below grade or to the basement floor, whichever is less. Walls associated with unconditioned basements shall meet this requirement unless the floor overhead is insulated in accordance with Sections 402.1.1 and 402.2.6.

402.2.8 Slab-on-grade floors. Slab-on-grade floors with a floor surface less than 12 inches (305 mm) below grade shall be insulated in accordance with Table 402.1.1. The insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table 402.1.1 by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by a minimum of 10 inches (254 mm) of soil. The top edge of the insulation installed between the *exterior wall* and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the *exterior wall*. Slab-edge insulation is not required in jurisdictions designated by the *code enforcement official* as having a very heavy termite infestation.

402.2.9 Crawl space walls. As an alternative to insulating floors over crawl spaces, crawl space walls shall be permitted to be insulated when the crawl space is not vented to the outside. Crawl space wall insulation shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend at least 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.

402.2.10 Masonry veneer. Insulation shall not be required on the horizontal portion of the foundation that supports a masonry veneer.

402.2.11 Thermally isolated sunroom insulation (Prescriptive). For sunroom additions not exceeding 500 square feet (46 m2) in area, the minimum ceiling insulation *R*-values shall be R-19 in Zone 4
New wall(s), windows and doors separating such sunroom addition from *conditioned* space shall meet the *building thermal envelope* requirements of Table 402.1.1.

402.2.12 Tenant separation walls. (Mandatory). Fire separations between dwelling units in two-family dwellings and multiple single-family dwellings (townhouses) shall be insulated to no less than R-10 and the walls shall be air sealed in accordance with Section 402.4.1 of this chapter.

402.3 Fenestration (Prescriptive).

402.3.4 Thermally isolated sunroom *U*-factor **(Prescriptive).** maximum fenestration *U*-factor shall be 0.50 and the maximum skylight *U*-factor shall be 0.75. New windows and doors separating the sunroom from *conditioned space* shall meet the *building thermal envelope* requirements.

402.3.5 Replacement fenestration. Where some or all of an existing fenestration unit is replaced with a new fenestration product, including sash and glazing, the replacement fenestration unit shall meet the applicable requirements for *U*-factor in Table 402.1.1, where required by Section 101.4.3.

402.4 Air leakage (Mandatory).
402.4.1 Building thermal envelope. The *building thermal envelope* shall be durably sealed to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material:
1. All joints, seams and penetrations.
2. Site-built windows, doors and skylights.
3. Openings between window and door assemblies and their respective jambs and framing.
4. Utility penetrations.
5. Dropped ceilings or chases adjacent to the thermal envelope.
6. Knee walls.
7. Walls and ceilings separating a garage from conditioned spaces.
8. Behind tubs and showers on exterior walls.
9. Common walls between dwelling units.
10. Attic access openings.
11. Rim joist junctions.
12. Sill plates and headers. Foam plastic (spray foam insulation) shall be permitted to be spray applied to a sill plate, header, and rim joists without the thermal barrier as specified in the *Residential Code of New York State*, Section 314.4 subject to all of the following:
a. The maximum thickness of the foam plastic shall be 31/4 inches (83 mm).
b. The density of the foam plastic shall be in the range of 0.5 to 2.0 pounds per cubic foot (8 to 32 kg/m3).
c. The foam plastic shall have a flame spread index of 25 or less and an accompanying smoke developed index of 450 or less when tested in accordance with ASTM E 84.
13. Other sources of infiltration

Revision No.	Date	Remarks

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ENERGY CODE
COMPLIANCE NOTES

DWG #
EN-001.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039817 STATE OF NEW YORK

Date: 12/15/14
Scale: 3/8" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

402.4.2 Air sealing and insulation (Mandatory). Building envelope air tightness and insulation installation shall be demonstrated to comply with one of the following options given by Section 402.4.2.1 or 402.4.2.2:

TABLE 402.2.5 STEEL-FRAME CEILING, WALL AND FLOOR INSULATION (*R*-VALUE)

COMPONENT	CRITERIA
Air barrier and thermal barrier	Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier.
	Breaks or joints in the air barrier are filled or repaired.
	Air-permeable insulation is not used as a sealing material.
	Air-permeable insulation is inside of an air barrier.
Ceiling/attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.
	Attic access (except unvented attic), knee wall door, or drop down stair is sealed.
Walls	Corners and headers are insulated.
	Junction of foundation and sill plate is sealed.
Windows and doors	Space between window/door jambs and framing is sealed.
Rim joists	Rim joists are insulated and include an air barrier.
Floors (including above-garage and cantilevered floors)	Insulation is installed to maintain permanent contact with underside of subfloor decking.
	Air barrier is installed at any exposed edge of insulation.
Crawl space walls	Insulation is permanently attached to walls.
	Exposed earth in unvented crawl spaces is covered with Class I vapor retarder with overlapping joints taped.
Shafts, penetrations	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.
Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.
Garage separation	Air sealing is provided between the garage and conditioned spaces.
Recessed lighting	Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception—fixtures in conditioned space.
Plumbing and wiring	Insulation is placed between outside and pipes.
	Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
Shower/tub on exterior wall	Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.
Electrical/phone box on exterior walls	Air barrier extends behind boxes or air sealed-type boxes are installed.
Common wall	Air barrier is installed in common wall between dwelling units.
HVAC register boots	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall.
Fireplace	Fireplace walls include an air barrier.

402.4.2.1 Testing option. Building envelope tightness and insulation installation shall be considered acceptable when tested air leakage is less than seven air changes per hour (ACH) when tested with a blower door at a pressure of 1.0 psf (50 Pa) as verified using instruments and procedures specified in ASHRAE/ASTM E779. The test shall be conducted by a qualified person, who shall demonstrate competence to the satisfaction of the code enforcement official for the conduct of such tests. For the purpose of this section, ACH50 shall mean air changes per hour of infiltration into a house as measured with a blower door at 50 pascals of pressure, in accordance with ASHRAE/ASTM E779. Testing shall occur after rough in and after installation of penetrations of the building envelope, including penetrations for utilities, plumbing, electrical, ventilation and combustion appliances.
During testing:
1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed;
2. Dampers shall be closed, but not sealed, including exhaust, intake, makeup air, backdraft and flue dampers;
3. Interior doors shall be open;
4. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
5. Heating and cooling system(s) shall be turned off;
6. HVAC ducts shall not be sealed; and
7. Supply and return registers shall not be sealed.

Test results shall be provided to the code enforcement official and shall include:
a. Name and place of business of the tester;
b. Address of the building which was tested;
c. Conditioned floor area of dwelling, calculated in accordance with ANSI Z65-1996, except that conditioned floor area shall include areas where the ceiling height is less than 5 feet (1524 mm);
d. Measurement of ACH50; and
e. Certification of accuracy of test results and signature of tester.

402.4.2.2 Visual inspection option. Building envelope tightness and insulation installation shall be considered acceptable when the items listed in Table 402.4.2, applicable to the method of construction, are field verified. Where required by the *code enforcement official*, an *approved* party independent from the installer of the insulation shall inspect the air barrier and insulation.

402.4.3 Recessed lighting. Recessed luminaires installed in the *building thermal envelope* shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as meeting ASTM E 283 when tested at 1.57 psf (75 Pa) pressure differential with no more than 2.0 cfm (0.944 L/s) of air movement from the *conditioned space* to the ceiling cavity. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

402.4.4 Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and *listed* and *labeled* by the manufacturer.

Exception: Site-built windows, skylights and doors.

402.6 Maximum fenestration *U*-factor. (Mandatory). The area weighted average maximum fenestration *U*-factor permitted using trade offs from Section 402.1.4 or Section 405 shall be 0.48 vertical fenestration, and 0.75 for skylights.

SECTION 403 SYSTEMS (Mandatory)

403.1 Controls. At least one thermostat shall be provided for each separate heating and cooling system.

403.1.1 Programmable thermostat. Each dwelling unit shall have at least one thermostat capable of automatically adjusting the space temperature set point of the largest heating or cooling zone and capable of controlling the heating and cooling system on a daily schedule to maintain different temperature set points at different times of the day. This thermostat shall include the capability to set back or temporarily operate the system to maintain zone temperatures down to 55°F (13°C) or up to 85°F (29°C). The thermostat shall initially be programmed with a heating temperature set point no higher than 70°F (21°C) and a cooling temperature set point no lower than 78°F (26°C).

403.1.2 Heat pump supplementary heat. Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

403.2 Ducts.

403.2.1 Insulation. Supply ducts in attics shall be insulated to a minimum of R-8. All other ducts shall be insulated to a minimum of R-6.

Exception: Ducts or portions thereof located completely inside the *building thermal envelope*.

403.2.2 Sealing. All ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with Section M1601.3.1 of the *Residential Code of New York State*, or, in New York City, the *New York City Construction Codes*. Duct tightness shall be verified by either of the following:
1. Post construction test: Leakage to outdoors shall be less than or equal to 8 cfm (226.5 L/min) per 100 ft2 (9.29 m2) of *conditioned floor area* or a total leakage less than or equal to 12 cfm (12 L/min) per 100 ft2 (9.29 m2) of *conditioned floor area* when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
2. Rough-in test: Total leakage shall be less than or equal to 6 cfm (169.9 L/min) per 100 ft2 (9.29 m2) of *conditioned floor* area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the roughed in system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 ft2 (9.29 m2) of *conditioned floor area*.

Exception: Duct tightness test is not required if the air handler and all ducts are located within *conditioned space*.

The building duct and plenum system shall meet the requirements above as verified using instruments and procedures specified in ANSI/ASHRAE 152 and ASTM E1554 Test Method A. Tests at other test pressures are permitted to be used if they are converted to equivalent leakage at 25 pascals (Pa) of pressure, and such equivalence is demonstrated to the satisfaction of the code enforcement official. The test shall be conducted by a qualified person, who shall demonstrate competence to the satisfaction of the code enforcement official for the conduct of such tests. For the purpose of this section CFM25 shall mean the leakage from all ducts and plenums in cubic feet per minute measured at 25 pascals of pressure in accordance with ANSI/ASHRAE 152 or ASTM E1554. Test results shall be provided to the code enforcement official and shall include:
1. Name and place of business of the tester;
2. Address of the building which was tested;
3. *Conditioned floor area* of dwelling, calculated in accordance with ANSI Z65, except that *conditioned floor area* shall include areas where the ceiling height is less than 5 feet (1524 mm);
4. Measurement of CFM25; and
5. Certification of accuracy of test results and signature of tester.

403.2.3 Building cavities. Building framing cavities shall not be used as supply ducts.

403.3 Mechanical system piping insulation. Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

403.4 Circulating hot water systems. All circulating service hot water piping shall be insulated to at least R-2. Circulating hot water systems shall include an automatic or readily *accessible* manual switch that can turn off the hot water circulating pump when the system is not in use.

403.5 Mechanical ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

403.6 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual J or similar section of the *Residential Code of New York State*.

403.7 Systems serving multiple dwelling units. Systems serving buildings containing three or more dwelling units shall comply with Sections 503 and 504 in lieu of Section 403.

SECTION 404 ELECTRICAL POWER AND LIGHTING SYSTEMS

404.1 Lighting equipment (Mandatory). A minimum of 50 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps.

404.2 Electrical energy consumption. In all buildings having individual dwelling units, provisions shall be made to determine the electrical energy consumed by each unit by separately metering or monitoring individual dwelling units.

TABLE I – PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE – RESIDENTIAL BUILDINGS

	Inspection/Test	Frequency (minimum)	Reference Standard (See ECC Chapter 6) or Other Criteria	ECC or Other Citation
IA	**Envelope Inspections**			
IA1	**Protection of exposed foundation insulation:** Insulation shall be visually inspected to verify proper protection where applied to the exterior of basement or cellar walls, crawl-space walls and/or the perimeter of slab-on-grade floors.	Prior to backfill	Approved construction documents	303.2.1
IA2	**Insulation placement and R-values:** Installed insulation for each component of the conditioned space envelope and at junctions between components shall be visually inspected to ensure that the R-values are marked, that such R-values conform to the R-values identified in the construction documents and that the insulation is properly installed. Certifications for unmarked insulation shall be similarly visually inspected.	As required to verify continuous enclosure while walls, ceilings and floors are open	Approved construction documents	303.1, 303.1.1, 303.1.2, 402.1, 402.2, 402.4.2.2, Table 402.4.2
IA3	**Fenestration thermal values and product ratings:** U-factors of installed fenestration shall be verified by visual inspection for conformance with the U-factors identified in the construction drawings, either by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in ECC Tables 303.1.3(1) and (2).	As required during installation	Approved construction drawings; NFRC 100	303.1, 303.1.3, 402.1, 402.3, 402.6
IA4	**Fenestration product ratings for air leakage:** Windows, skylights and sliding glass doors, except site-built windows, skylights and doors, shall be visually inspected to verify that installed assemblies are listed and labeled to the referenced standard.	As required during installation	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440	402.4.4
IA5	**Fenestration areas:** Dimensions of windows, doors and skylights shall be verified by visual inspection.	Prior to final construction inspection	Approved construction documents	402.3, 402.6
IA6	**Air sealing and insulation – visual inspection option:** Openings and penetrations in the building envelope, including site-built fenestration and doors, shall be visually inspected to verify that they are properly sealed, in accordance with Table 402.4.2.	As required during envelope construction	Approved construction documents; ASTM E283; ASTM E84; RCNYS	402.4.1, 402.4.2.2, 402.4.3
IA7	**Air sealing and insulation – testing option:** Testing shall be performed in accordance with section ECC 402.4.2.1 and shall be accepted if the building meets the requirements detailed in such section. Test results shall be retained in accordance with the provisions of Title 28.	Prior to final construction inspection	ASHRAE/ASTM E779; ANSI Z65; Approved construction documents	402.4.2.1
IB	**Mechanical and Plumbing Inspections**			
IB1	**Fireplaces:** Provision of combustion air and tight-fitting fireplace doors shall be verified by visual inspection.	Prior to final construction inspection	Approved construction documents; ANSI Z21.60 (see also MC 904), ANSI Z21.50	303.1.5; BC 2111; MC Chapters 7, 9; FGC Chapter 6
IB2	**Outdoor air intake and exhaust dampers:** Not less than 20% of installed automatic or gravity dampers, and a minimum of one of each type, shall be visually inspected and physically tested for proper operation.	Prior to final construction inspection	Approved construction documents	403.5, 403.7, 503
IB3	**Equipment:** Heating and cooling equipment shall be verified by visual inspection for proper sizing. Pool heaters and covers shall be verified by visual inspection.	Prior to final plumbing and construction inspection	ACCA Manual J; Approved construction documents, including energy analysis	403.6, 403.7, 403.9, 503
IB4	**Controls:** System controls shall be inspected to verify that each dwelling is provided with at least one individual programmable thermostat with capabilities as described in ECC 403.1.1, and that such controls are set and operate as specified in ECC 403.1.1. Controls for supplementary electric-resistance heat pumps shall be inspected to verify that such controls prevent supplemental heat operation when the heat pump compressor can meet the heating load. Controls for snow- and ice-melting systems and pools shall be inspected for proper operation. Not less than 20% or one of each control type, whichever is more, shall be inspected.	Prior to final electrical and construction inspection	Approved construction documents, including control system narratives	403.1, 403.4, 403.7, 403.8, 403.9, 503, 504
IB5	**Duct and piping insulation and duct sealing:** Installed duct and piping insulation shall be visually inspected to verify correct insulation placement and values. Ducts, air handlers, filter boxes and building cavities used as ducts shall be visually inspected for proper sealing.	Prior to closing ceilings and walls and prior to final construction inspection	Approved construction documents; RCNYS M1601.3.1	403.2.1, 403.2.2, 403.3, 403.4, 403.7, 503, 504; MC Section 603; 1RCNY §5000-01
IB6	**Duct leakage testing:** Where the air handler and/or some ductwork is in unconditioned space, duct-leakage testing shall be performed either after rough-in or post-construction to ensure compliance with ECC 403.2.2. Not less than 20% of such ductwork shall be tested.	Prior to closing ceilings and walls and prior to final construction inspection	Approved construction documents; ANSI/ASHRAE 152, ASTM E1554 Test Method A	403.2.2, 403.7, 503
IC	**Electrical Power and Lighting Systems**			
IC1	**Electrical metering:** The presence and operation of individual meters or other means of monitoring individual dwelling units shall be verified by visual inspection for all dwelling units.	Prior to final electrical and construction inspection	Approved construction documents	404.2
IC2	**Lighting in dwelling units:** Lamps in permanently installed lighting fixtures shall be visually inspected to verify compliance with high-efficacy requirements.	Prior to final electrical and construction inspection	Approved construction documents	404.1
ID	**Other**			
ID1	**Maintenance information**: Maintenance manuals for equipment and systems requiring preventive maintenance shall be reviewed for applicability to installed equipment and systems before such manuals are provided to the owner. Labels required for such equipment or systems shall be inspected for accuracy and completeness.	Prior to sign-off or issuance of Certificate of Occupancy	Approved construction documents	303.3
ID2	**Permanent certificate**: The installed permanent certificate shall be visually inspected for location, completeness and accuracy.	Prior to final plumbing, electrical and/or construction inspection as applicable	Approved construction documents	401.3; 1RCNY 5000-01(g)(5)

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Drawing scales as indicated are for reference only and are not intended to accurately depict actual or designed conditions. Written dimensions shall govern.

Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

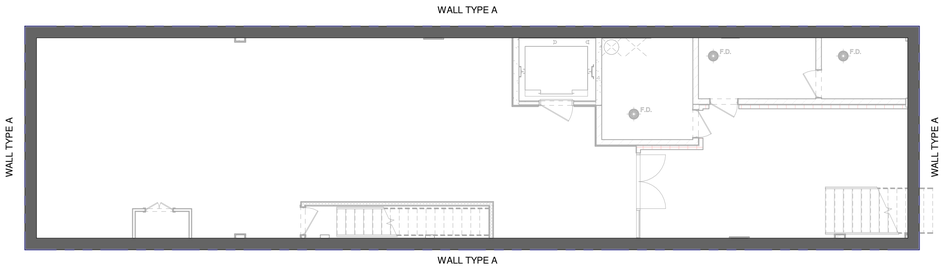
Title:
ENERGY CODE
COMPLIANCE NOTES

DWG.#
EN-002.00

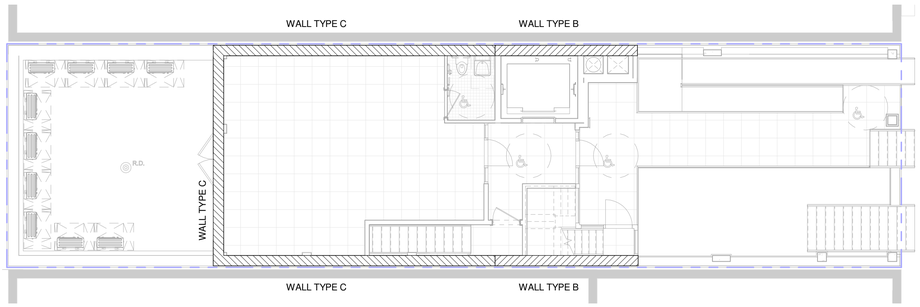
Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039912 STATE OF NEW YORK

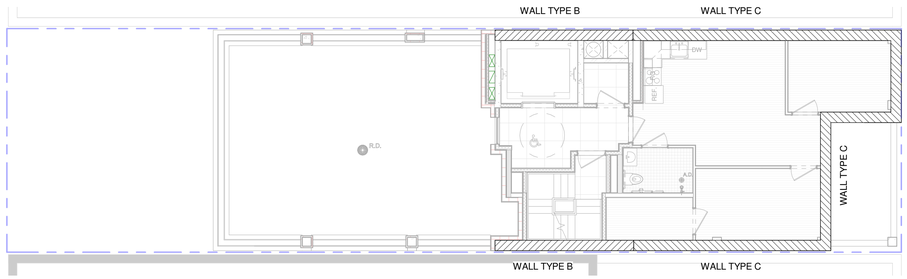
Date: 12/15/14
Scale: 3/8" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker



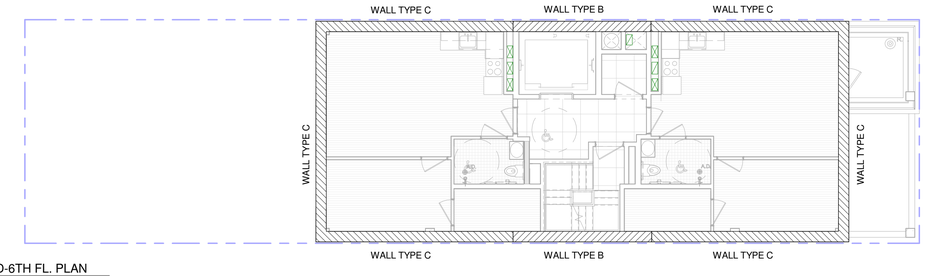
1 EN-CELLAR
1/8" = 1'-0"



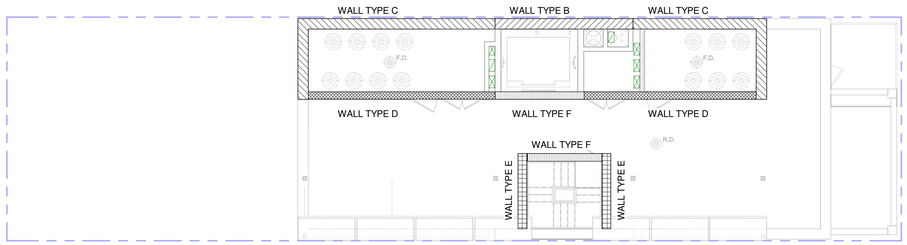
2 EN-1ST FLOOR
1/8" = 1'-0"



3 2ND FL. PLAN
1/8" = 1'-0"



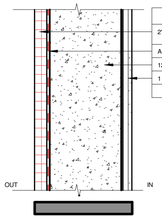
4 3RD-6TH FL. PLAN
1/8" = 1'-0"



5 EN-ROOF
1/8" = 1'-0"

WALL SECTIONS

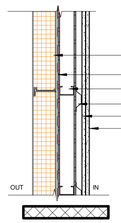
WALL TYPE A



KEY ON SECTION

	R-VALUES
2" INSULATION	0.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
12" CONCRETE FOUNDATION WALL	1.28
1 1/2" WALL FURRING	?
TOTAL	?

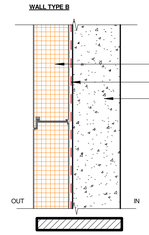
WALL TYPE D



KEY ON SECTION

	R-VALUES
4" SIPS POLYURETHANE PANELS R-7 PER INCH	42.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
2 1/2" MTL STUD	0.00
7/8" MTL FURRING @ 16 O.C.	0.00
5/8" G.W.B(DRAGON BOARD)	0.45
5/8" G.W.B(DRAGON BOARD)	0.45
TOTAL	42.00

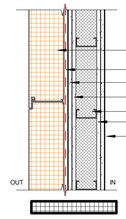
WALL TYPE B



KEY ON SECTION

	R-VALUES
6" SIPS POLYURETHANE PANELS (R-7 PER INCH)	42.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
8" CONCRETE	1.11
TOTAL	43.11

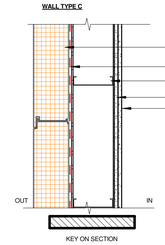
WALL TYPE E



KEY ON SECTION

	R-VALUES
4" SIPS POLYURETHANE PANELS R-7 PER INCH	42.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
5/8" G.W.B(TYPE X)	0.45
5/8" G.W.B(TYPE X)	0.45
3 1/2" METAL STUD	0.00
5/8" G.W.B(TYPE X)	0.45
5/8" G.W.B(TYPE X)	0.45
TOTAL	42.00

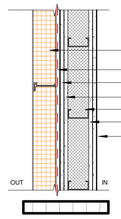
WALL TYPE C



KEY ON SECTION

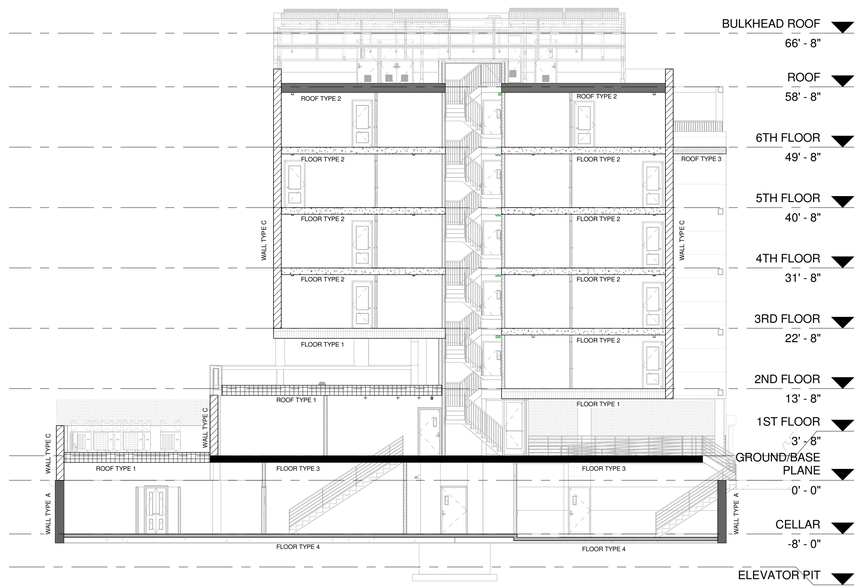
	R-VALUES
6" SIPS POLYURETHANE PANELS R-7 PER INCH	28.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
6 3/4" MTL STUDS	0.00
5/8" G.W.B(DRAGON BOARD)	0.45
5/8" G.W.B(DRAGON BOARD)	0.45
TOTAL	29.11

WALL TYPE F



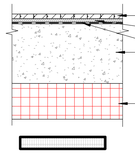
KEY ON SECTION

	R-VALUES
4" SIPS POLYURETHANE PANELS R-7 PER INCH	42.00
AIR SEAL TAPE TO CLOSE ALL JOINTS	0.00
5/8" G.W.B(TYPE X)	0.45
5/8" G.W.B(TYPE X)	0.45
3 1/2" METAL STUD	0.00
5/8" G.W.B(TYPE X)	0.45
5/8" G.W.B(TYPE X)	0.45
TOTAL	42.00



PROPOSED FLOOR SECTIONS

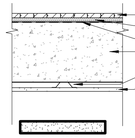
FLOOR TYPE 1 - TYP. FLOOR



KEY ON SECTION

	R-VALUES
3/4" WOOD TILE FINISH	0.00
1" PLYWOOD SHEATHING	0.93
1/4" ACOUSTICAL TREATMENT	0.00
10" CONCRETE	0.16
6" INSULATION SLAB	0.16
TOTAL	1.65

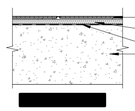
FLOOR TYPE 2 - TYP. FLOOR APARTMENTS



KEY ON SECTION

	R-VALUES
3/4" WOOD TILE FINISH	0.00
1" PLYWOOD SHEATHING	0.93
1/4" ACOUSTICAL TREATMENT	0.00
10" CONCRETE	0.16
7/8" MTL.FURRING 16@O.C.	0.00
1 LAYER OF 5/8" G.W.B	0.56
TOTAL	1.65

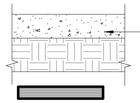
FLOOR TYPE 3 - TYP. FLOOR PUBLIC HALLWAYS



KEY ON SECTION

	R-VALUES
3/4" CERAMIC TILE FINISH	0.00
1" PLYWOOD SHEATHING	0.93
1/4" ACOUSTICAL TREATMENT	0.00
10" CONCRETE	0.16
TOTAL	1.65

FLOOR TYPE 4 - CELLAR FLOOR

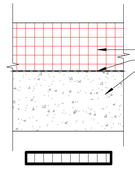


KEY ON SECTION

	R-VALUES
4" CONCRETE SLAB	0.32
TOTAL	14.08

PROPOSED ROOF SECTIONS

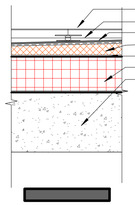
ROOF TYPE 1 - MECH ROOF



KEY ON SECTION

	R-VALUES
8" INSULATION	0.00
FIBERGLASS ROOFING MEMBRANE	0.00
10" CONCRETE	0.00
TOTAL	??

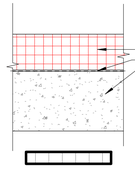
ROOF TYPE 2 - TERRACE



KEY ON SECTION

	R-VALUES
ROOF PAVERS	0.00
1/4" COVERBOARD	0.00
GEOTEXTILE FILTER FABRIC	0.00
2" POLYISO BOARD	10.8
2 LAYER BITUMINOUS ROOFING	0.00
6" INSULATION	0.00
10" CONCRETE	0.00
TOTAL	??

ROOF TYPE 3 - BALCONY



KEY ON SECTION

	R-VALUES
6" INSULATION	0.00
FIBERGLASS ROOFING MEMBRANE	0.00
10" CONCRETE	0.00
TOTAL	??

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Drawing scales as indicated are for reference only and are not intended to accurately depict actual or designed conditions. Written dimensions shall govern.

Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ENERGY ANALYSIS-WALL & FLOOR TYPES

DWG #
EN-003.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039172 STATE OF NEW YORK

Date:	12/11/14
Scale:	As indicated
Drawn:	Designer
Job #	32157
Checked:	Checker

1968 BUILDING CODE NOTES

1. ALL MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF SECTION C27-130.
2. ALL ELEVATIONS INDICATED ARE TAKEN FROM ARCHITECTURAL SURVEY PREPARED BY.....
3. AT LEAST 24 HOUR WRITTEN NOTICE SHALL BE GIVEN TO THE COMMISSIONER BEFORE COMMENCEMENT OF WORK (C27-195).
4. FIVE DAYS PRIOR NOTICE SHALL BE GIVEN TO ADJOINING LOT OWNERS AFFECTED BY FOUNDATION, EARTHWORK OR DEMOLITION (C27-165 & C27-169).
5. ALL PAVED WALKS, SURFACES AND AREAWAYS SHALL BE DRAINED ADEQUATELY WITHIN THE SITE.
6. WHERE PIPES, WIRES, CONDUITS, DUCTS, ETC. PIERCE FIRE PROTECTION OF INDIVIDUALLY ENCASED STRUCTURAL MEMBERS, SUCH PENETRATION SHALL NOT EXCEED 2% OF ANY ONE FACE OF SUCH PROTECTION, AND SHALL BE CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS OR PLATES. (C27- 324A).
7. CEILINGS THAT CONTRIBUTE TO THE REQUIRED FIRE-RESISTANCE RATING OF A FLOOR OR ROOF ASSEMBLY SHALL BE CONTINUOUS BETWEEN FIRE DIVISION, FIRE SEPARATIONS OR VERTICAL PARTITIONS HAVING THE SAME FIRE RESISTANCE RATING AS THE CEILING. CONCEALED SPACE NOT EXCEEDING ABOVE SUCH CEILING, UNLESS SPRINKLERED, SHALL BE FIRE STOPPED INTO AREAS 3,000 SQUARE FEET, PROTECTED BY SELF-CLOSING OPENING PROTECTIVES (C27-327).
8. DUCTS, PIPES, AND CONDUITS PASSING THROUGH RATED CONSTRUCTION SHALL HAVE PACKED WITH ROPE ASBESTOS OR MINERAL WOOL AND CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS. AGGREGATE AREA OF SUCH OPENING SHALL NOT EXCEED 25 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL OR FLOOR AREAS UNLESS PROTECTED BY RATED SELF- CLOSING DEVICES (C27-343).
9. FIRE DIVISIONS SHALL COMPLY WITH PROVISIONS OF SECTION C27-340 AND SHALL BE CONTINUOUS THROUGH ANY CONCEALED SPACE IN FLOOR OR ROOF CONSTRUCTION.
10. TENANTS NOT SEPARATED BY FIRE DIVISIONS, SHALL BE SEPARATED BY FIRE SEPARATIONS, BUT NOT LESS THAN ONE HOUR SEPARATIONS SHALL CONTINUE SHALL CONTINUE THROUGH CONCEALED SPACES ABOVE (C27-341).
11. OPENING IN FIRE DIVISIONS AND SEPARATIONS TO COMPLY WITH SECTION C27-342.
12. CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, STAIR, FURRING, PIPE SPACES, COLUMN ENCLOSURES, ETC., SHALL BE FIRE STOPPED (EXCEPT WHERE CONCEALED SPACE IS SPRINKLERED) WITH NON-COMBUSTIBLE MATERIAL. (C27-351)
13. FINISHED FLOORING IN ALL EXITS SHALL BE OF NON- COMBUSTIBLE MATERIAL (C27-351).
14. ALL EXITS SHALL BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.
15. STAIRS SHALL HAVE HANDRAILS ON EACH SIDE (EXCEPT THAT STAIRS LESS THAN 44 INCHES WIDE SHALL HAVE A HANDRAIL ON ONE SIDE ONLY). HANDRAILS SHALL PROVIDE A FINGER CLEARANCE OF 1 1/2 INCHES AND SHALL PROJECT NOT MORE THAN 3 1/2 INCHES INTO REQUIRED STAIR WIDTH. STAIRS MORE THAN 88 INCHES WIDE SHALL HAVE INTERMEDIATE HANDRAILS. HEIGHT OF HANDRAIL SHALL BE BETWEEN 30 AND 34 INCHES ABOVE THE TREAD NOSING. MATERIALS OF HANDRAILS SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 150. HANDRAILS SHALL BE DESIGNED TO RESIST A SIMULTANEOUS APPLICATION OF A LATERAL FORCE OF 40#/L.F. AND VERTICAL LOAD OF 50#/L.F. LANDINGS AND PLATFORMS SHALL BE ENCLOSED ON SIDES BY WALL OR RAILINGS, AT LEAST 3-0" HIGH. RISERS SHALL BE MAXIMUM 7 3/4" HIGH, TREADS MINIMUM 9 1/2" WIDE, EXCLUSIVE OF NOSING AND THE SUM OF 2 RISERS PLUS ONE TREAD EXCLUSIVE OF NOSING SHALL BE NOT LESS THAN 24 NOR MORE THAN 25 1/2.
16. TREADS AND LANDING SHALL BE BUILT OF/OR SURFACED WITH NONSKID MATERIALS.
17. ILLUMINATION OF AT LEAST 5 FOOT CANDLES MEASURED AT THE FLOOR LEVEL SHALL BE MAINTAINED CONTINUOUSLY DURING OCCUPANCY, IN EXITS AND THEIR ACCESS FACILITIES (C27-381).
18. EXIT LIGHTING SHALL BE ON CIRCUITS, TAKEN OFF AHEAD OF MAIN SWITCH AND SHALL BE EQUIPPED WITH BATTERY BACK-UP PACK.
19. LOCATION OF EVERY EXIT ON FLOOR SHALL BE CLEARLY INDICATED BY EXIT SIGNS PLACED IF REQUIRED AT ANGLE WITH EXIT OPENINGS. INSTALL DIRECTIONAL SIGNS TO SERVE AS GUIDES FROM ALL PORTIONS OF THE CORRIDOR OPENING ON FLOOR (C27-383).
20. EXIT SIGNS SHALL BE INTERNALLY LIGHTED, HAVING AN INITIAL BRIGHTNESS OR LETTER OF AT LEAST 25 FOOT LAMBERTS. LETTERS SHALL BE RED, THE BACKGROUND SHALL BE WHITE. LETTERS SHALL BE BLOCK LETTERING AT LEAST 4 1/2" HIGH, WITH 9/16" STROKES BACKGROUND.
21. CORRIDORS AND EXIT PASSAGEWAYS SHALL HAVE A CLEAR HEIGHT OF 7'-6" FOR AT LEAST 75% OF THE FLOOR AREA WITH NO POINT LESS THAN 7 FEET IN HEIGHT. PROJECTION BELOW THE CEILING SHALL NOT OBSTRUCT FULL VIEW OF EXIT SIGNS (C27-369B).
22. CONDUITS IN FIRE-RATED PARTITIONS WILL NOT EXCEED 3/4 INCH DIAMETER. OUTLETS IN SUCH PARTITIONS WILL BE BACKED UP WITH APPROVED MATERIALS.
23. NO CONDUITS, PIPES, MEDICINE CABINETS, ETC., SHALL ENCROACH UPON FIRE RATED PARTITIONS ENCLOSING PUBLIC CORRIDORS, STAIRS, ELEVATOR SHAFTS OR VENT SHAFTS.
24. EXIT DOORS SHALL BE READILY OPERABLE AT ALL TIMES FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE. DOORS OPENING INTO INTERIOR ENCLOSED STAIRS SHALL NOT BE LOCKED FROM TENANT SIDE, EXCEPT THEY MAY BE LOCKED TO PREVENT ACCESS TO THE STAIR FROM THE OUTDOORS AT STREET LEVEL.
25. ALL WIRE GLASS IN RATED DOORS AND WINDOWS WILL BE OF A TYPE APPROVED BY THE B.S.A.
26. ALL CLEANING OF WINDOWS WILL BE IN CONFORMITY WITH THE WINDOW CLEANING CODE.
27. PENETRATION OF OPENINGS IN WALLS, PARTITIONS, OR FLOORS FOR PIPE SLEEVES, MEDICINE CABINETS, HAMPERS, ELECTRIC DEVICES, ETC., SHALL BE PACKED, SEALED, LINED, OR OTHERWISE ISOLATED TO MAINTAIN THE REQUIRED S.T.C. RATING.
28. MASONRY MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF RS 10-1, SECTION 3. MORTAR TO BE TYPE "N".
29. THE DESIGN OF MASONRY WALLS IS PREDICATED UPON ANALYSIS OF STRESSES AS PER RS 10-1, SEC. 4.
30. ALL MASONRY LOAD BEARING AND NON-LOAD BEARING WALLS SHALL BE BONDED IN ACCORDANCE WITH SECTION 7, RS 10-1.
31. CONTRACTOR SHALL CHECK ALL CONDITIONS AND DIMENSIONS AT SITE BEFORE COMMENCING CONSTRUCTION. ARCHITECT SHALL BE NOTIFIED OF ANY ERROR OR OMISSIONS BEFORE WORK IN QUESTION IS STARTED.
32. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED PRIOR TO STARTING THE WORK AND ALSO OBTAIN THE CERTIFICATE OF OCCUPANCY.
33. REMOVE ALL EXISTING WALLS, PARTITIONS, DOORS, FLOORING, CEILINGS, FIXTURES, ETC. AS SHOWN ON DRAWINGS OR AS REQUIRED TO INSTALL NEW WORK.
34. WHERE EXISTING BEARING WALLS, BEAMS OR ANY OTHER STRUCTURAL SUPPORT OF THE EXISTING BUILDING IS BEING REMOVED, CONTRACTOR SHALL DO ALL NECESSARY SHORING, NEEDLING, UNDERPINNING, ETC. AS REQUIRED TO MAINTAIN THE SAFETY OF THE STRUCTURE, THE WORKERS, AND THE GENERAL PUBLIC. THE STRUCTURE, THE WORKERS, AND THE GENERAL PUBLIC.
35. PATCH AND REPAIR EXISTING CONSTRUCTION WHERE DISTURBED BY NEW WORK AND AS CALLED FOR ON DRAWINGS.
36. ALL SUCH MATERIALS DESIGNATED FOR "CONTROLLED INSPECTION" SHALL BE INSPECTED BY AN ARCHITECT OR ENGINEER RETAINED BY THE OWNER.
37. ORNAMENTAL PROJECTIONS AND DOOR SWINGS SHALL NOT PROJECT MORE THAN 18" BEYOND THE BUILDING LINE.
38. INTERIOR FINISHES, EXCEPT FINISHED FLOORING, FLOOR COVERINGS, WALL COVERINGS AND COATING LESS THAN .036 IN TOTAL THICKNESS, SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN THAT OF THE FOLLOWING INTERIOR FINISH CLASSES:

LOCATION	CLASS J-2
EXITS AND SHAFTS	A (0-25)
ROOMS GREATER THAN 1500 SQ. FEET	B (26-75)
ROOMS LESS THAN 1500 SQ. FEET	B (26-75)

39. ALL NEW STEEL RESTING ON MASONRY SHALL HAVE THREE COURSES OF BRICK UNDER SAME AND BEARING PLATES UNDER STEEL.
40. ALL REINFORCED CONCRETE MATERIALS, DESIGNS AND CONSTRUCTION SHALL BE AS PER ACT 318, 1963 EDITION WITH MODIFICATIONS PER RS 10-3.
41. PLAIN CONCRETE SHALL HAVE A MINIMUM FACTOR OF FIVE BAGS PER CUBIC YARD AND SHALL DEVELOP A STRENGTH OF 2,500 P.S.I. AS PER TABLE 10.3, AND A WATER-CEMENT RATIO SLUMP OF 5:1. OTHER CONCRETE REQUIREMENTS ARE LISTED ON THE STRUCTURAL DRAWINGS.
42. THREE TEST CYLINDERS SHALL BE PROVIDED FOR EACH FIFTY CUBIC YARDS OF CONCRETE PLACED IN ONE DAY, AS PER RS 10.
43. ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST ASTM SPECIFICATIONS FOR A-36 AND A-50 STEEL.]
44. CONTRACTOR SHALL FILE THE AFFIDAVIT OF THE PRODUCER OF STEEL, CERTIFYING THAT THE PROVISIONS OF THE LOCAL CODE ARE MET.
45. ALL CONNECTIONS SHALL BE 3/4" BOLTS OR GREATER, AS REQUIRED.
46. ALL STEEL SURFACES NOT IN CONTACT WITH CONCRETE, SHALL RECEIVE ONE SHOP COAT OF APPROVED PAINT.
47. ALL WELDING TO BE PERFORMED BY N.Y.C. LICENSED WELDERS.
48. LINTELS OVER OPENINGS WIDER THAN FOUR FEET IN MASONRY WALLS SHALL BE FIRE-PROTECTED WITH MATERIALS HAVING THE REQUIRED FIRE RESISTANCE RATING OF THE WALL SUPPORTED.
49. NEW MASONRY SHALL BE LAID UP IN TYPE M OR S PORTLAND CEMENT MORTAR, 1:3 MIX WITH NOT MORE THAN 10% LIME BY VOLUME, AS PER RS 10-46, ASTM C270, 1964.
50. BLOCK WALLS SHALL HAVE "DUR-O-WALL" METAL WALL TIES EVERY OTHER BLOCK COURSE.
51. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER AND SHALL CONFORM TO ALL CODE REQUIREMENTS.
52. ALL FIXTURES SHALL BE PROPERLY VENTED AND SHALL HAVE SHUT-OFF VALVES AT EACH FIXTURE WITH WATER SUPPLY IN COPPER PIPES.
53. ALL SOIL, WASTE AND VENT LINES IN FLOOR 2" AND LARGER, SHALL BE E.H.C.I., AND SHALL HAVE CLEAN OUTS AT THE BASE OF ALL LINES. VENTS SHALL PROJECT THROUGH THE ROOF, 4"-0".
54. TEMPERATURE REQUIREMENTS SHALL BE A 70 DEGREE INSIDE TEMPERATURE WHEN 0 DEGREES OUTSIDE, FOR ALL OCCUPIED AREAS.
55. VENTILATION OF TOILETS SHALL COMPLY WITH MOL.
56. ALL DUCTWORK AND FIRE DAMPERS SHALL COMPLY WITH CODE.
57. ALL SERVICE EQUIPMENT SHALL MEA APPROVED AND AN EQUIPMENT USE PERMIT SHALL BE OBTAINED BY THE INSTALLATION CONTRACTOR FOR ALL SUCH EQUIPMENT.
58. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
59. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM WITH ALL LOCAL LAWS, THE NATIONAL ELECTRICAL CODE AND LOCAL UTILITY'S REQUIREMENTS.
60. ALL PARTITIONS TO BE WEDGED TIGHTLY TO CEILING.
61. PLATE GLASS TO COMPLY WITH SECTION C26-550.2.
62. GLASS DOORS TO COMPLY WITH 501-68 SR AS APPROVED BY THE B.S.A.
63. HUNG CEILINGS TO COMPLY WITH SECTION C27-350 & RS 5-16.
64. HUNG CEILING TO BE OF INCOMBUSTIBLE MATERIAL.
65. PROVIDE B.S.A. APPROVED TYPE PHOSPHORESCENT EXIT LIGHTS AND SIGNS AS PER SECTION C26-607.1.
66. PROVIDE FLOOR NUMBERING SIGNS AS PER SECTION C27-394.
67. PROVIDE STAIR IDENTIFICATION SIGNS AS PER SECTION C27-393.
68. COMPLY WITH LOCAL LAW 76 FOR ASBESTOS.
69. COMPLY WITH LOCAL LAW 58 FOR HANDICAPPED ACCESSIBILITY.
70. UPON COMPLETION OF WORK, OWNER SHALL OBTAIN A CERTIFICATE OF OCCUPANCY FROM THE BUILDING DEPARTMENT PRIOR TO OCCUPYING ANY AREA OF THE BUILDING.

TENANT SAFETY NOTES

1. BUILDING TO BE VACANT DURING CONSTRUCTION.

HOUSING MAINTENANCE CODE NOTES

1. THE OWNER OF THE MULTIPLE DWELLINGS SHALL KEEP THE PREMISES IN GOOD REPAIR.
2. THE OWNER SHALL KEEP THE ROOF, YARDS, COURTS & OTHER OPEN SPACES CLEAN & FREE FROM DIRT, FILTH, GARBAGE OR OTHER OFFENSIVE MATERIALS.
3. PAINTING OF PUBLIC PARTS & WITHIN DWELLINGS TO COMPLY WITH SECTION D26-12.01 H.M.C.
4. PAINTING OF WINDOW FRAMES TO COMPLY WITH SECTION D26- 12.03 H.M.C.
5. PREMISES TO BE MAINTAINED & KEPT FREE OF RODENT & INSECT INFESTATION AS PER SECTION D26-13.03 & D26-13.05 H.M.C.
6. RECEPTACLES FOR COLLECTION OF WASTE MATTER TO BE PROVIDED AS PER SECTION D26-13.03 & D26-14.05 H.M.C.
7. PROVIDE & MAINTAIN A SUPPLY OF PURE & WHOLESOME WATER SUFFICIENT IN QUANTITY & AT SUFFICIENT PRESSURE TO KEEP ALL PLUMBING FIXTURES ADEQUATELY SUPPLIED FOR THEIR SANITARY MAINTENANCE.
8. MAINTAIN & KEEP IN GOOD REPAIR THE PLUMBING & DRAINAGE SYSTEM INCLUDING WATER CLOSETS, TOILETS, SINKS & OTHER FIXTURES.
9. THE DRAINAGE OF ROOFS, COURTS & YARDS SHALL COMPLY WITH D26-16.03 H.M.C.
10. HEAT & HOT WATER REQUIREMENTS AS PER ARTICLE 17 OF H.M.C. CENTRAL HEATING SYSTEM AS PER BUILDING CODES; MINIMUM TEMPERATURES TO BE MAINTAINED AS PER SECT. D26- 17.01 & .03. CENTRAL HEATING SYSTEM TO BE INSPECTED YEARLY BY QUALIFIED PERSON IN ACCORDANCE WITH SECTION D26-17.05 OF H.M.C. SUPPLY OF HOT WATER AS PER SECTION D26-17.07.
11. YEARLY INSPECTIONS OF CENTRAL HEATING PLANT BY QUALIFIED PERSON TO BE MADE AS D26-17.05, -19.01 -19.05,H.M.C.
12. PROVIDE ELECTRIC LIGHTING EQUIPMENT IN ALL DWELLINGS AS PER SECTION D26-19.01.
13. PROVIDE & MAINTAIN ELECTRIC LIGHTING FIXTURES IN EVERY PUBLIC HALL, STAIR OR FIRESTAIR IN ACCORDANCE WITH SECTION D26-19.03 & 19.05.
14. PROPER ELECTRIC LIGHTS TO BE PROVIDED NEAR ENTRANCE WAYS, YARDS & COURTS AS PER SECTION D26-19.07 H.M.C., ON SEPARATE CIRCUIT OR CONNECTED TO HOUSE LINE SERVICING PUBLIC HALLS, AND IN ACCORDANCE WITH REQUIREMENTS & APPROVAL OF THE DEPARTMENT OF WATER SUPPLY, GAS & ELECTRICITY.
15. BOARD OF STANDARDS & APPEALS APPROVED TYPE PEEPHOLES APPROXIMATELY 5 FEET ABOVE FINISHED FLOOR TO BE PROVIDED IN ENTRANCE DOORS OF DWELLING UNITS AS PER SECTION D26.01 H.M.C. & DEPARTMENT RULES & REGULATIONS.
16. ENTRANCE DOORS SHALL BE PROVIDED WITH HEAVY DUTY LATCH SET & A HEAVY DUTY DEAD BOLT OPERABLE WITH A KEY FROM THE OUTSIDE & A THUMB-TURN FROM THE INSIDE. EQUIP DOORS WITH A CHAIN DOOR GUARD SO AS TO PERMIT PARTIAL OPENING.
17. PROPERLY MOUNTED & SECURED POLISHED METAL VIEWING MIRRORS TO BE PROVIDED WITHIN SELF-SERVICE ELEVATORS AS PER SECTION D26-20.03 H.M.C. & DEPARTMENT RULES & REGULATIONS.
18. KEY LOCK IN THE ENTRANCE DOOR TO EACH DWELLING UNIT WITH AT LEAST ONE KEY TO BE PROVIDED BY OWNER AS PER SECITION D26-20.05 H.M.C. DOOR TO BE EQUIPPED WITH HEAVY DUTY LATCH SET AND HEAVY DUTY DEAD BOLT AND CHAIN DOOR GUARD AND THUMB TURNED ON INSIDE.
19. APPROVED TYPE MAIL RECEPTACLES & DIRECTORY OF PERSONS LIVING IN DWELLING TO B PROVIDED AS PER SECTION D26-21.01 H.M.C. & REGULATIONS OF POST OFFICE DEPARTMENT.
20. PROPER FLOOR SIGNS TO BE PROVIDED IN PUBLIC HALL NEAR STAIRS & ELEVATORS & WITHIN STAIR ENCLOSURE AS PER SECTION D26-21.03 H.M.C. & DEPARTMENT RULES & REGULATIONS.
21. PROPER STREET NUMBERS TO BE PROVIDED IN PUBLIC HALL OF THE DWELLING AS PER SECTION 82 (3)-1.0 ADMINISTRATIVE CODE, SECTION D26-21.03 H.M.C. AND RULES & REGULATIONS OF BOROUGH PRESIDENT.
23. PROPER JANITORIAL SERVICES TO BE PROVIDED AS PER SECTION D26-22.05 H.M.C.
24. ALL COMBUSTIBLE MATERIALS WITHIN ONE FOOT OF COOKING APPARATUS TO BE PROPERLY FIRE RETARDED & MINIMUM 2- FOOT CLEARANCE MAITAINED ABOVE EXPOSED COOKING SURFACE. COMBUSTIBLE MATERIAL BETWEEN 2 FEET & 3 FEET ABOVE EXPOSED COOKING SURFACE TO BE FIRE RETARDED. SECTION D26-32.05 H.M.C. & DEPARTMENT REULES & REGULATIONS.
25. NO KITCHEN SHALL BE OCCUPIED FOR SLEEPING PURPOSES. SECTION D26-33.05 H.M.C.
26. MAXIMUM TWO BOARDERS, ROOMERS OR LODGERS PERMITTED TO EACH FAMILY.
27. REGISTRATION STATEMENT TO BE FILED AS PER SECTION D26- 41.01 & D26-41.03 H.M.C.
28. REGISTRATION IDENTIFICATION SIGN CONTACT AND DWELLING SERIAL NUMBER TO BE POSTED AS PER SECTION D26-41.15 H.M.C.
29. IDENTIFICATION OF MANAGING AGENT OR OWNER TO BE INDICATED ON TENANT'S RENT RECEIPT AS PER SECTION D26-41.17 H.M.C.
30. WALLS OF COURTS AND SHAFTS TO BE OF A LIGHT COLORED SURFACE AS PER SECTION D26-12.05 HMC.
31. GAS FUELED OR ELECTRIC HEATERS WHERE PERMITTED ARE TO COMPLY WITH SECTION D26-17.09.

INDOOR & OUTDOOR RECREATION SPACE NOTES

1. FOR ALL ACCESSORY INTERIOR & EXTERIOR RECREATION SPACES, PROVIDE EXIT SIGNS & DIRECTIONAL EXIT SIGNS THROUGHOUT THE EXIT PASSAGEWAYS, & AT ALL EXITS ON EACH FLOOR AS PER B.C. ART.7 SUBCHAPTER 6.
2. WHERE ROOFS ARE USED FOR RECREATIONAL PURPOSES, WIRE FENCING AT LEAST TEN FEET HIGH SHALL BE CONSTRUCTED.
3. PLACE OF ASSEMBLY APPLICATION TO BE FILED PRIOR TO SIGN-OFF.

GENERAL NOTES

1. THE HEIGHT OF ALL PUBLIC CORRIDORS SHALL BE 8'-0" MIN. (TYP.), UNLESS OTHERWISE NOTED.
2. TYPICAL HEAT PUMP UNIT (HPU SEE PLANS) ARE ELECTRIC, NON-GAS FIRED COOLING/HEATING UNITS (TYP.)
3. LOT LINE WINDOW RESTRICTIVE DECLARATION SHALL BE FILED AND RECORDED WITH THE CITY REGISTER PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY (TYP.)
4. FIRE PROTECTION APPLICATION IS REQUIRED PRIOR TO THE SIGN-OFF AS PER B.C. 27-228.1

BUILDING DEPARTMENT NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NEW YORK CITY 1968 BUILDING CODE.
2. THE OWNER SHALL BE RESPONSIBLE FOR THE SAFE MAINTENANCE OF THE BUILDING AND ITS FACILITIES C26-105.0
3. THE BUILDING SHALL BE UNOCCUPIED BY OWNER OR TENANTS DURING THE COURSE OF CONSTRUCTION.
4. CORRIDORS AND EXIT PASSAGES SHALL COMPLY WITH SECTION C-26-604-2.
5. MECHANICAL, VENTILATION, AIR-CONDITIONING
6. A. ALL INSPECTION AND TESTING OF A REQUIRED VENTILATION SYSTEM SHALL BE MADE BY AN ARCHITECT OR ENGINEER, BUT NOT BE IN THE EMPLOYMENT OF THE OWNER AS PER C-26-1301.
7. INSPECTION DURING PROGRESS OF WORK: THE COMMISSIONER MAY ACCEPT SIGNED STATEMENTS BY ARCHITECTS AND ENGINEERS AND SUPPORTING INSPECTION AND TEST REPORTS WITHOUT VERIFYING INSPECTION OR TEST BY DEPARTMENT OF INSPECTORS PERC-26-120.5
8. ALL PERMITS ISSUED BY THE DEPARTMENT OF BUILDINGS SHALL BE POSTED IN A CONSPICUOUS PLACE VISIBLE TO THE PUBLIC FOR THE DURATION OF THE WORK OR UNTIL THE EXPIRATION OF THE PERMIT.
9. ALL WOOD WORKING SHALL BE FIREPROOFED IN ACCORDANCE WITH NYC CODE C-26-502.6 AND C-26-504-10.

Revision No.	Date	Remarks

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DOB APPLICATION NO.
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Project:
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Title:
GENERAL NOTES

DWG #
A-001.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039812 STATE OF NEW YORK

Date:	10/12/11
Scale:	1 1/2" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NEW YORK CITY BUILDING CODE.
2. THE ARCHITECT OF RECORD HAS NOT BEEN RETAINED FOR ANY FIELD SUPERVISION OR INSPECTION; HIS RESPONSIBILITY IS LIMITED TO ACCURACY OF THE PLANS, UNLESS OTHERWISE NDICATED BY APPLICATIONS.
3. A SURVEY, BY A LICENSED SURVEYOR, SHOWING THE LOCATION OF THE BUILDINGS, PROPERTY LINES AND OTHER EXISTING SITE CONDITIONS SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS.
4. PRIOR TO START OF ANY CONSTRUCTION, CONTRACTOR IS REQUIRED TO CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AT JOB SITE AND DIMENSIONS OF PLANS. CONTRACTOR TO REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER IMMEDIATELY.
5. CONTRACTOR SHALL VERIFY ALL LOCATIONS OF UTILITY LINES, LIGHT POOLS, HYDRANTS, ETC. AND SHALL MAKE PROPER TIEINS AND APPLY FOR PERMITS AS NECESSARY.HYDRANTS, ETC. AND REPORT TO THE ARCHITECT OR ENGINEER ANY CONDITION NOT CONSISTENT WITH THE DRAWINGS
6. NO PLANS SHALL BE SCALED, DIMENSIONS SHOULD BE USED.
7. AT LEAST 24 HOURS WRITTEN NOTICE SHALL BE GIVEN BY OWNER AND/OR CONTRACTOR'S TO THE COMMISSIONER PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK AND 72 HOUR WRITTEN NOTICE TO BE GIVEN ARCHITECT OR ENGINEER FOR CONTROLLED INSPECTIONS.
8. FIVE (5) DAYS PRIOR WRITTEN NOTICE OF PERMIT APPLICATION SHALL BE GIVEN TO OWNER OF ALL ADJOINING LOTS, BUILDINGS, AND SERVICE FACILITIES WHICH MAY BE AFFECTED BY THE FOUNDATION WORK OR EARTH WORK OPERATIONS.
9. A PERMIT SHALL BE ISSUED FOR EXCAVATING AND AFTER ESTABLISHING THE BEARING CAPACITY OF THE SOIL BY ANARCHITECT OR ENGINEER OR THEIR REPRESENTATIVE AND SECURING APPROVAL THEREOF FROM THE DEPARTMENT OF BUILDINGS, THE PERMITS SHALL BE FOR THE ENTIRE CONSTRUCTION.
10. NO FIRE HYDRANT OR UTILITY POLE, OR THREE SHALL BE WITHIN 5'-0" OF SPLAY OF ANY CURB CUT.
11. ANY ALTERED GRADE EXCEEDING 30 DEGREE SLOPE SHALL HAVE A RETAINING WALL FILED AS AN AMENDMENT AND APPROVED BY DEPARTMENT OF BUILDINGS BEFORE THE START OF SUCH A WALL.
12. THE STREET ON WHICH THIS BUILDING FRONTS IS OR WILL BE IMPROVED TO THE SATISFACTION OF THE DEPARTMENT OF HIGHWAYS. REQUIRED UTILITIES SHALL ALSO BE INSTALLED.
13. SIDEWALK AND ROADWAY CONSTRUCTION OFF SITE WILL CONFORM TO DEPARTMENT OF HIGHWAYS SPECIFICATIONS. A SEPARATE APPROVAL FOR SIDEWALK CONSTRUCTION, INCLUDING WIDTH OF SIDEWALK WILL BE OBTAINED FROM THAT DEPARTMENT BEFORE SUCH WORK IS COMMENCED.
14. ALL EXCAVATIONS SHALL BE KEPT SUBSTANTIALLY FREE OF WATER DURING FOUNDATION CONSTRUCTION WORK.
15. PROTECT ALL ADJACENT PROPERTIES. PROPERLY SHORE, UNDERPIN AND MAKE SAFE ALL EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY PART OF THE WORK.
16. THE CONTRACTOR IS RESPONSIBLE FOR THE METHODS AND MEANS OF CONSTRUCTION AND FOR SITE SECURITY AND SAFETY AND WILL TAKE FULL PRECAUTIONS TO PROTECT WORKMEN, PASSERSBY OR ANY OTHER HAZARDS OF DEMOLITION OPERATIONS.
17. CONTRACTOR SHALL OBTAIN A CERTIFICATE OF OCCUPANCY UPON COMPLETION OF ALL WORK.
18. CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION, INCLUDING THOSE FOR WORK OUTSIDE OF THE PROPERTY LINES, PAY ALL REQUIRED FEES TO THE D.O.B. BASED ON THE PROPOSED WORK OF THIS DRAWING FROM NEW YORK CITY BUILDING DEPARTMENT PRIOR TO START OF WORK.
19. ALL MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL MEET THE FOLLOWING REQUIREMENTS:
    A) SHALL HAVE BEEN ACCEPTABLE PRIOR THE EFFECTIVE DATE THE CODE BY THE BOARD OF STANDARDS AND APPEALS OR,
    B) SHALL HAVE BEEN ACCEPTED FOR USE UNDER THE PRESCRIBED CODE TEST METHODS BY THE COMMISSIONER OR,
    C) APPROVED BY THE BOARD OF STANDARDS AND APPEALS (C26-106.2)
20. THE FOLLOWING ITEMS OF WORK SHALL BE SUBJECT TO CONTROLLED INSPECTION, MADE AND WITNESSED BY OR UNDER THE DIRECT SUPERVISION OF AN ARCHITECT OR ENGINEER RETAINED BY THE OWNER AND ACCEPTABLE TO ARCHITECT OF RECORD. TEST REPORTS AND CERTIFICATE OF INSPECTION SHALL BE FILED WITH THE BUILDING DEPARTMENT:
    A) FIRE STOPPING OF:
        1) HOLLOW PARTITIONS AND FURRED SPACES
        2) CONCEALED SPACES WITHIN STAIR CONSTRUCTION
        3) CEILING SPACES
        4) EXTERIOR CORNICES
        5) DUCT AND PIPE CHASES
    B) CONCRETE MATERIALS FOR STRUCTURAL ELEMENTS PROPORTIONED ON THE BASIS OF CALCULATED STRESSES 70% OR GREATER OF BASIC ALLOWABLE VALUES C26-10040
    C) STEEL WELDING OPERATIONS AND TENSIONS OF HIGH STRENGTH BOLTS (TABLE 10-1).
    D) PLACING OF CONCRETE (TABLE 10-1).
    E) REINFORCED MASONRY (TABLE 10-1).
    F) UNREINFORCED MASONRY (TABLE 10-1).
21. IT SHALL BE CONTRACTOR RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS AND STANDARDS OF THE BUILDING CODE, ZONING RESOLUTION, BS&A, A.C.I., ASTM & ANY OTHER GOVERNMENT AND NON-GOVERNMENT AGENCIES HAVING JURISDICTION. IT SHALL ALSO BE THE CONTRACTORS RESPONSIBILITY TO SEEK CERTIFICATION OF THE AFOREMENTIONED SECTIONS, REQUIREMENTS AND STANDARDS. IT SHALL BE ASSUMED THAT THE CONTRACTOR IS FULLY AWARE AND SHALL BE HELD RESPONSIBLE FOR THE ITEMS MENTIONED (BLDG., CODE, ZONE. RES., BS&A, A.C.I., ASTM, N.Y.S. ENERGY CONSERVATION CODE, ETC.) SHOULD THERE BE NO NOTIFICATION BY THE CONTRACTOR TO THE ARCHITECT.

21(a). ALL MATERIALS NOT DESIGNATED FOR CONTROLLED INSPECTION SHALL BE SUBJECT TO SEMI-CONTROLLED INSPECTION FOR STRUCTURAL LUMBER AND PLUMBING MATERIALS, INSPECTION REPORTS, TEST REPORTS OR OTHER DOCUMENTATION BY THE PERSON SUPERINTENDING THE USE OF THE MATERIAL SHALL BE SUBMITTED TO THE DEPARTMENT PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

22. APPLICATION FOR CERTIFICATE OF OCCUPANCY AND CERTIFICATE OF OCCUPANCY FORMS #24 & #54, IF NOT FILED WITH ORIGINAL APPLICATION PRIOR TO APPROVAL SHALL BE FILED AT SUCH TIME THERE WILL BE CHANGES IN BUILDING WHICH MAY NECESSITATE THE SUBMISSION OF REVISED SPECIFICATION SHEETS. IN CASE THERE ARE DISCREPANCIES BETWEEN THE GENERAL NOTES AND SPECIFIC ITEM SHOWN ON THE PLANS, THE ARCHITECT AND /OR ENGINEER ARE TO BE NOTIFIEDIMMEDIATELY AND ALL WORK IS TO BE HALTED UNTIL THE DISCREPANCY IS RESOLVED.
23. CONTRACTOR TO COORDINATE ALL EQUIPMENT BASE AND HOUSEKEEPING PADS WITH MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS. EQUIPMENT BASES AND HOUSEKEEPING PADS TO BE A MINIMUM OF 4" HIGH UNLESS OTHERWISE NOTED. PROVIDE ONE LAYER OF WWF 6X6XW4 WELDED WIRE FABRIC MINIMUM, TO BE INSTALLED BENEATH THE FULL PROJECTED AREA OF EQUIPMENT
24. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES AND REQUIREMENTS ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE PROCEEDING WITH THAT PORTION OF WORK.
25. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND THE EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION. HE SHALL NOTIFY THE ARCHITECT OF ANY ERRORS, OMISSIONS, CONFLICTS OR AMBIGUITIES IN AND BETWEEN THE PLANS, DRAWINGS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK. IF SUCH NOTICE IS NOT FURNISHED TO ARCHITECT. THE CONTRACTOR SHALL BE DEEMED TO HAVE INSPECTED THE PLANS, DRAWINGS AND SPECIFICATIONS AND TO HAVE FOUND THEM IN PROPER FORM AND EXECUTION
26. THE ARCHITECT DOES NOT HAVE CONSTRUCTION ADMINISTRATION RESPONSIBILITY FOR THIS PROJECT.
27. ALL WORK SHALL BE DONE IN WORKMANLIKE MANNER BY SKILLED MECHANICS. THE WORK SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE DEMOLITION AN CONSTRUCTIONAL SHOWN ON THESE DRAWINGS.
28. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE PROPER PERFORMANCE OF THEIR WORK, COORDINATION WITH OTHER TRADES, METHODS, SAFETY AND SECURITY ON THE SITE. SPECIAL ATTENTION TO SAFETY SHALL BE PROVIDED DURING ALL DEMOLITION WORK. THE ARCHITECT AND HIS AGENTS ARE NOT RESPONSIBLE OR LIABLE FOR THE ABOVE AND SHALL BE HELD HARMLESS AND INDEMNIFIED BY ALL CONTRACTORS FROM ANY CLAIMS, LOSSES OR SUITS OR LEGAL ACTION ARISING FROM THE PERFORMANCE OF WORK IN THIS PROJECT.
29. THE INFORMATION SHOWN ON THESE DRAWINGS CONSTITUTES THE EXTENT OF ARCHITECTURAL SERVICES RENDERED TO THE CLIENT THE ARCHITECT HAS NO CONTRACTUAL OBLIGATION TO THE CLIENT BEYOND THE PREPARATION OF DRAWINGS SUITABLE FOR FILING FOR BUILDING PERMITS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED. THE ARCHITECT DISCLAIMS ALL RESPONSIBILITY IF CONSTRUCTION IS EXECUTED WITH DIMENSIONS SIZE OR MATERIALS THAT DEVIATE FROM THESE DRAWINGS.
30. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND SHALL BE RESPONSIBLE FOR SIZING ALL COMPONENTS OF HIS WORK AS NECESSARY FOR PROPER INSTALLATION.
31. CONTRACTOR SHALL BE RESPONSIBLE TO DISTRIBUTE ADEQUATE COPIES OF THESE DRAWINGS AND SPECIFICATIONS TO ALL APPLICABLE TRADES AT ALL TIMES DURING THE PROGRESS OF THE JOB, INCLUDING SUBSEQUENT REVISIONS THERE IS TO BE ONE COMPLETE UP TO DATE SET AT THE JOB SITE AT ALL TIMES.
32. IT IS THE INTENTION OF THIS CONTRACTOR TO REHABILITATE THE BUILDING, FINISHED AND READY FOR OCCUPANCY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL REQUIREMENTS OF THE LAW. ALTHOUGH ALL NECESSARY WORK MAY NOT BE ITEMIZED IN THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR WILL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND INCLUDE ALL WORK SPECIFIED OR IMPLIED FOR THE COMPLETE REPAIR OF THE BUILDING.
33. CONTRACTOR SHALL OBTAIN BUILDING PERMIT. NO WORK SHALL PROCEED UNLESS BUILDING PERMITS IS DISPLAYED AT THE FRONT OF BUILDINGS. CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSED, INSPECTION FEES AND ALL OTHER CHARGES.
34. CONTRACTOR SHALL OBTAIN NEW CERTIFICATE OF OCCUPANCY. HE SHALL OBTAIN ALL PERMITS AD FINAL APPROVALS OF ALL DEPARTMENTS HAVING JURISDICTION.
35. ERECT TEMPORARY COVERED PASSAGEWAYS AT STREET LEVEL AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
36. CONSTRUCTION OF BUILDING EXTERIOR ENVELOPE AND INSTALLATION OF HVAC, SERVICE WATER HEATING ELECTRICAL DISTRIBUTION AND ILLUMINATION SYSTEMS AND EQUIPMENT TO COMPLY WITH THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, SECTION E-1016 (D)
37. COORDINATE PATCHING INVOLVING THE VARIOUS TRADES WHETHER OR NOT SPECIFICALLY MENTIONED IN THE RESPECTIVE SPECIFICATIONS SECTIONS.
38. STEAM CLEAN STREET FACADE AS SPECIFIED.
39. REMOVE DEBRIS AS THE WORK PROGRESSES. MAINTAIN EXISTING PREMISES IN A NEW AND CLEAN CONDITION.
40. REMOVE FROM THE SITE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM WORK.
41. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK WHO SHALL DESIGN AND SUPERVISE INSTALLATION OF ALL UNDERPINNING AND SHORING.
42. THE CONTRACTOR FOR THE WORK OF THIS SECTION SHALL BE HELD TO HAVE VISITED THE SITE, EXAMINED THE PREMISES DETERMINED FOR HIMSELF THE EXISTING CONDITIONS, CHARACTER OF EQUIPMENT AND FACILITIES NEEDED FOR TIE PERFORMANCE OF THE WORK AND ALL MATTERS WHICH MAY IN WAY AFFECT THE WORK BEFORE SUBMITTING A BID.
43. INFORMATION REGARDING EXISTING, CONSTRUCTION OR CONDITIONS IS BASED ON AVAILABLE RECORD DRAWING, WHICH MAY OR MAY NOT TRULY REFLECT EXISTING CONDITIONS. SUCH INFORMATION IS INCLUDED ON THE ASSUMPTION THAT IT MAY BE OF INTEREST TO THE CONTRACTOR. BUT THE ARCHITECT, CONSTRUCTION MANAGER, OWNER AND THEIR CONSULTANTS DO NOT ASSUME RESPONSIBILITY FOR ITS ACCURACY OR COMPLETENESS.
44. THE GENERAL CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED ARCHITECT/ENGINEER FOR ALL REQUIRED CONTROLLED INSPECTIONS.
45. TOP OF ARCHITECTURAL FINISH OF FIRST FLOOR SEATING ELEVATION=0'-0" FOR THE PURPOSES OF THESE CONTRACT DOCUMENTS.
46. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS. ALL NOTES ARE TO BE REVISED AND APPLIED TO RELATED BUILDING COMPONENTS.NIF
47. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS.
48. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIED DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
49. ALL ELEVATOR AND STAIR OPENINGS SHALL BE CERTIFIED BY THE ELEVATOR SUBCONTRACTOR PRIOR TO FORMING. REQUIRED MODIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR APPROVAL PRIOR TO FORMING.
50. REFER TO CERTIFIED MECHANICAL AND ELECTRICAL CONTRACTOR'S DRAWINGS AND MANUFACTURER'S TEMPLATE DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, BOLT SETTING TEMPLATES, ISOLATIONS, SPRING ISOLATION,ETC, NOT SHOWN ON THE DRAWINGS.
51. CONCRETE PADS AND MOUNTINGS IN MECHANICAL SPACES SHALL BE COORDINATED WITH ELECTRICAL AND PLUMBING CONTRACTORS.
52. CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL FLOOR AND WALL SLEEVES AND ALL MECHANICAL SHAFTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS.
53. PROVIDE ACCESS PANELS AS APPLICABLE AND AS REQUIRED FOR MECHANICAL EQUIPMENT. ALL ACCESS PANELS SHALL BE CONCEALED, AND LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING.
54. PORTABLE FIRE EXTINGUISHERS LOCATED ON THE DRAWINGS SHALL RECEIVE APPROVAL OF FIRE DEPARTMENT PRIOR TO INSTALLATION.
55. ALL SPRINKLER HEADS IN ACOUSTICAL TILE SHALL BE INSTALLED CENTERED IN THE ACOUSTICAL TILE. (N/A) 22. ALL STRUCTURAL ELEMENTS WHICH DO NOT REQUIRE FIREPROOFING SHALL BE FIELD PAINTED.
56. ALL EXTERIOR HANDRAILS AND EXTERIOR EXPOSED METAL SHALL BE GALVANIZED AND PAINTED UNLESS NOTED OTHERWISE.
57. ALL EXTERIOR DOORS SHALL PREVENT AIR LEAKAGE/INFILTRATION AROUND THEIR PERIMETER WHEN IN A CLOSED POSITION.
58. ALL EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOFS, AND BETWEEN WALLS AND PANELS AT PENETRATION OF UTILITIES THROUGH THE ENVELOPE SHALL BE SEALED, CAULKED OR WEATHER STRIPPED TO PREVENT AIR LEAKAGE/INFILTRATION.
59. ALL EXTERIOR SOFFITS SHALL BE CONSTRUCTED WITH RIGID GALVANIZED METAL FRAME MEMBERS AND SHALL RESIST UPLIFTING WIND LOADS OF 1.5 TIMES THE WIND PRESSURE DIAGRAM.
60. ALL EXTERIOR SOFFITS SHALL BE INSTALLED TO PROVIDE A 'U' VALUE OF 0.09 SHALL HAVE A VAPOR BARRIER AND SHALL BE PROPERLY SEALED AGAINST AIR INFILTRATION.
61. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID MOLECULAR BREAKDOWN.
62. FUTURE TENANT DEVELOPMENT TO BE COVERED UNDER SEPARATE PERMITS. (N/A)
63. THE CONTRACTOR SHALL REPLACE AND REPAIR MISSING, BROKEN SIDEWALK, CURB, OR ROADWAY DAMAGE DURING CONSTRUCTION AS DIRECTED BY THE BOROUGH.

FIRE PROTECTION NOTES

1. 1. ALL MATERIALS AND ASSEMBLIES REQUIRED TO HAVE A FIRE RESISTENCE RATING SHALL COMPLY WITH ONE OF THE FOLLOWING:
    A) IT SHALL CONFORM WITH "FIRE RESISTANCE RATING" BY THE AMERICAN INSURANCE ASSOCIATION OR
    B) SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ASST. 3-119-1961, "STANDARD METHODS OF FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS" AND ACCEPTED BY THE COMMISSIONER, OR
    C) SHALL HAVE BEEN ACCEPTABLE PRIOR TO THE EFFECTIVE DATE OF THE CODE.
2. WHERE PIPES, WIRES, CONDUITS DUCTS, ETC. PIERCE FIRE PROTECTION OF INDIVIDUALLY ENCASED STRUCTURAL MEMBERS, SUCH PENETRATION SHALL NOT EXCEED TWO (2) PERCENT OF ANY ONE FACE SUCH PROTECTION, AND SHALL BE CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS OR PLATES C26-502.2.
3. LINTELS SUPPORTING MASONRY WALLS OVER 4 FEET IN WIDTH SHALL BE FIRE PROTECTED WITH MATERIALS HAVING THE REQUIRED FIRE RESISTANCE RATING OF THE WALL SUPPORTED C26-502.
4. OPENING PROTECTIVES INCLUDING FRAMES, SELF-CLOSING DEVICES AND HARDWARE SHALL COMPLY WITH ASTM E-152-1966, "STANDARD METHODS OF FIRE TEST OF DOOR ASSEMBLIES" AND E-163.1965 IN ACCORDANCE WITH NFPA NO. 80-1967, "INSTALLATION OF FIRE DOORS AND WINDOWS". OPENING PROTECTIVES SHALL BE LABELED, CERTIFYING PERFORMANCE RATING, AND SHALL HAVE BEEN ACCEPTED BY THE COMMISSIONER OR THE BOARD OF STANDARDS AND APPEALS C-26-507.7.
5. DUCTS, PIPES AND CONDUITS PASSING THROUGH RATED CONSTRUCTION SHALL HAVE SPACES NOT EXCEEDING 1/2" PACKED WITH MINERAL WOOL AND CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS. AGGREGATE NET AREA OF SUCH OPENING SHALL NOT EXCEED 25 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL OR FLOOR AREA, UNLESS PROTECTED BY RATED SELF-ENCLOSED DEVICES C26-504.5.
6. FIRESTOPPING: CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING, PIPE SPACES, COLUMNS ENCLOSURES, ETC. SHALL BE FIRE PROOFED (EXCEPT WHERE CONCEALED SPACE IS SPRINKLED) AS FOLLOWS:
    A) CONSTRUCTION GROUP 1: WITH NONCOMBUSTIBLE MATERIAL THAT CAN BE SHAPED.
    B) NON COMBUSTIBLE FIRE STOPPING MAY BE MASONRY SET IN MORTAR, CONCRETE, 3/4" MORTAR OR PLASTER ON NONCONBUSTIBLE LATH, PLASTERBOARD AT LEAST 3/8" THICK, SHEET METAL AT LEAST 0.002" THICK, SOLID WEB METAL STRUCTURAL MEMBER, 1/4" MINIMUM CEMENT BOARD OR EQUIVALENT MATERIAL. MINERAL SLAG OR ROCK WOOL WHEN COMPACTED INTO CONFINED SPACE C26-504.7.
7. INTERIOR FINISH: MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH THE SURFACE FLAME SPREAD RATIO OBTAINING AS PRESCRIBED IN ASST. E-84-1961 "STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS" AS PER C-26-504.
8. ALL EXISTS SHALL BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.
9. ILLUMINATION OF AT LEAST 5 FOOT CANDLES MEASURED AT THE FLOOR LEVEL SHALL BE MAINTAINED CONTINUOUSLY IN EXITS AND THEIR ACCESS FACILITIES.
10. SUSPENDED CEILING SHALL COMPLY WITH SECTION 1C 26-504.12 OF THE NYC BUILDING CODE WITH METAL HANGERS, PURLINS AND RUNNERS AS REQUIRED.
11. WHERE TEMPORARY PARTITIONS ARE USED THEY SHALL BE CONSTRUCTED TO BE DUST PROOF BARRIERS.

§[C26-604.4] 27-371 DOORS:
*(C) SMOKE STOP DOORS.- SMOKE STOP DOORS SHALL BE SELFCLOSING, SWINGING DOORS OF METAL, METAL COVERED, OR ONE AND THREE-QUARTER INCH SOLID CORE WOOD WITH CLEAR WIRE GLASS PANELS HAVING A MINIMUM AREA OF SIX HUNDRED SQUARE INCHES PER DOOR AND A MAXIMUM AREA OF TWELVE HUNDRED NINETY-SIX SQUARE INCHES PER DOOR, EXCEPT THAT IN BUILDINGS NOT OVER TWO STORIES HIGH, SMOKE STOP DOORS MAY BE OF ONE AND THREE-EIGHTHS INCH SOLID CORE WOOD WITH CLEAR WIRE GLASS PANELS, UNLESS THE DOORS ARE ALSO USED AS HORIZONTAL EXITS IN WHICH CASE THEY SHALL COMPLY WITH THE PROVISIONS OF SUBDIVISION (B) OF SECTION 27-373 OF THIS ARTICLE. IN ADDITION, SMOKE STOP DOORS MAY BE CONSTRUCTED OF TEMPERED GLAZING OR THE EQUIVALENT AND BE PROTECTED BY SPRINKLER HEADS CONSTRUCTED IN ACCORDANCE WITH SUBCHAPTER SEVENTEEN OF THIS CHAPTER AND INSTALLED A MAXIMUM OF SIX FEET (6'-0") ON CENTERS ON EACH SIDE OF THE OPENING. SMOKE STOP DOORS MAY BE DOUBLE-ACTING BUT SHALL CLOSE THE OPENING COMPLETELY WITH ONLY SUCH CLEARANCE AS IS REASONABLY NECESSARY FOR PROPER OPERATION. SMOKE STOP DOORS SHALL NORMALLY BE IN THE CLOSED POSITION, EXCEPT THAT THEY MAY BE LEFT OPEN IF THEY ARE ARRANGED TO CLOSE AUTOMATICALLY BY AN APPROVED DEVICE WHICH IS ACTUATED BY AN INTERIOR FIRE ALARM SYSTEM MEETING THE REQUIREMENTS OF SUBCHAPTER SEVENTEEN OF THIS CHAPTER OR UPON SMOKE DETECTION. TEMPERED GLASS SMOKE STOP DOORS SHALL BE MARKED WHERE REQUIRED IN ACCORDANCE WITH THE RULES OF THE BOARD OF STANDARDS AND APPEALS.
*LOCAL LAW 26-2004.

MULTIPLE DWELLING LAW NOTES

1. MULTIPLE DWELLING CODE WILL BE COMPKIED WITH AS PER LOCAL LAW NO. 23-56.
2. ALL ROOM WILL COMPLY WITH SECTION 31-6 OF THE M.D.L.
3. EVERY DOOR GIVING ACCESS TO THE ENTRANCE FRO MOUTSIDE OF THE BUILDING WILL CONTAIN NOT LESS THAN FIVE SQUARE FEET OF GLAZED SURFACE AREA IN ACCORDANCE WITH SECTION 35 OF THE M.D.L.
4. INTERCOMMMUNICATION SYSTEM AN DENTRANCE DOOR LOCKS SHALL BE PROVIDED AS PER SECTION 50 (A) M.D.L.
5. ARTIFICIAL LIGHTING OF PUBLIC HALLS AND STAIRWAYS WILL COMPLY WITH SECTION 37 OF THE M.D.L. AND SECTION D26-3.20 OF THE N.Y.C. BUILDING CODE.
6. ALL OPENINGS TO ELEVATOR SHAFTS WILL BE PROVIDED WITH DOORS AND BUCKS HAVING A 1-1/2 HOUR FIRE RATING. ALL DOORS TO ELEVATOR SHAFTS AND DOORS IN ELEVATOR CBS TO BE PROVIDED WITH AUTOMATIC DEVICES AS REQUIRED BY SECTION 51 OF THE M.D.L. DOORS TO BE SELF-CLOSING AND PROVIDED WITH VISION PANEL OF APPROVED TYPE CLEAR WIRE PLATE GLASS.
7. ALL OUTSIDE STEPS AND THEIR RAILS, WILL COMPLY WITH SECTIONS 52 AND 62, M.D.L. GUARD RAILS ON RETAINING WALLS MORE THAN 18" HIGH WILL BE AT LEAST FOUR FEET HIGH ABOVE GRADE AND WILL BE SUBSTANTIALLY SUPPORTED AND ANCHORED.
8. SECTION 33, SUBDIVISION 3, OF TH EM.D.L. AND THE DEPARTMENT RULES WILL BE COMPLIED WITH RANGES WILL BE USED OF A TYPEAPPROVED BY A RECOGNIZED TESTING LABORATORY. ALL COOKING RANGES WILL BE INSTALLED IN ACCORDANCE WITH C26-1300.7C OF THE N.Y.C. BUILDING CODE AND WITH SECTION 64 OF THE M.D.L. OVER-HEAD CABINETS WILL BE LOCATED AT LEAST NINE INCHES HORIZONTALLY AND 2'-0" VERTICALLY FROM BURNERS. RANGES WILL COMPLY WITH THE REQUIREMENTS OF THE A.G.A. OR G.S.A. CEILINGS ENCLOSING KITCHENETTES SHALL BE FIRE RETARDED WITH (1) LAYER OF 5/8" F.C.# 60 TYPE 'X' GYPSUM BOARD. PARTITIONS ENCLOSING KITCHENETTES SHALL BE FIRE RETARDED WITH (1) LAYER OF 5/8" F.C. # 60 TYPE X GYPSUM BOARD EACH SIDE.
9. WALLS AND CEILINGS IN SERVICE AREAS, WHERE NOTED IN SCHEDULE OF INTERIOR FINISHES WILL BE PAINTED A LIGHT COLOR AS PER SECTION 34 (4) OF THE M.D.L. APARTMENT STAIRWAYS AND HALLS TO BE PAINTED AS PER SECTION 80 (4) OF THE M.D.L.
10. SECTION 34 SUBDIVISION 2 OF THE M.D.L. WILL BE COMPLIED WITH IN THAT ALL WALLS BELOW THE GROUND LEVEL AND ALL CELLAR OR LOWER FLOORS SHALL BE DAMP-PROOFED AND WATER-PROOFED. SUCH DAMP-PROOFING AND WATER-PROOFING SHALL RUN THROUGHOUT THE CELLAR OR OTHER LOWEST FLOOR AND THROUGH AND UP THE WALLS AS HIGH AS THE GROUND LEVEL.
11. PARKING FOR THE PROJECT WILL BE PRIMARILY FOR THE USE OF TENANTS AS PER SECTION 60 OF THE M.D.L. AND WILL COMPLY WITH THE DEPARTMENT RULES AND REGULATIONS AND WITH CHAPTER 5 OF ARTICLE II, OF THE ZONING RESOLUTION.
12. SECTION T1 OF THE M.D.L. WILL BE COMPLIED WITH. NO LEADER DRAIN OR HOUSE TRAP WILL BE LOCATED IN ANY BATHROOM OR WATER CLOSET COMPARTMENTS. ALL TRAPS ARE TO BE ACCESSIBLY LOCATED.
13. MECHANICAL VENTILATION FOR INTERIOR BATHROOMS, KITCHENS, KITCHENETTES AND PUBLIC HALLS WILL BE OPERATED AS REQUIRED BY SECTION 76.33 AND 107 OF THE M.D.L.
14. LIGHTING THROUGHOUT WILL COMPLY WITH ARTICLE 19 OF THE HOUSING MAINTENANCE CODE AND SECTION 34-3, 37 AND 64 OF THE M.D.L.
15. COMPLY WITH SECTION 80, SUBDIVISION 6 OF THE M.D.L. AND ARTICLE 13 OF THE H.M.C. AS TO PEST AND RODENT ERADICTION.
16. PROVIDE HEAT AND HOT WATER AS PER ARTICLE 17 OF THE H.M.C. AND SECTION 77.3 AND 79 OF THE M.D.L.

CONTINUED ON DRAWING A-006

Revision No.	Date	Remarks

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GENERAL NOTES

DWG #
A-002.00

Signature:

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Date:	10/12/11
Scale:	1 1/2" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

17. SOUND CONTROL SHALL BE PROVIDED AS PER SECTION 84 OF THE M.D.L. AND IN ACCORDANCE WITH THE N.Y.C. BUILDING CODE AND ITS REFERENCE STANDARDS.
18. IN COMPLIANCE WITH SECTION 83 FO THE MULTIPLE DWELLING LAW. THERE WILL BE AN ADEQUATE NUMBER OF SUPERINTENDENTS, ASSISTANT SUPERINTENDENTS, CARETAKERS, ETC IN CHARGE OF THESE BUILDING AT ALL TIMES.
19. GAS METERS WILL BE PLACED IN SPACES PROVIDED IN A CELLAR AS PER SECTION 64 OF THE M.D.L. FIRE RETARDING AT GAS RANGES TO COMPLY WITH SECTION 33 (B) M.D.L.
20. MAINTENANCE, MANAGEMENT AND LAUNDRY, ETC. ARE OF ACCESSORY USE TO THE BUILDING AND WILL COMPLY WITH SECTION 61 M.D.L.
21. NO WOOD WAINSCOTING AS PER SECTION 191 OF THE M.D.L.
22. ALL APARTMENT ENTRANCE DOORS TO BE A MINIMUM OF 2'-10" X6'-8" APPROVED AND LABELED ONE HOUR TEST FIREPROOF SELF-CLOSING AS PER SECTION 171 M.D.L.
23. ALL BATHROOMS TO HAVE SANITARY TYPE CERQMIC TILE FLOORS AND A MINIMUM 6" SANITARY TYPE CERAMIC TILE BASE AS PER SECTION 76 OF THE M.D.L.
24. SEPARATE MISCELLANEOUS APPLICATION WILL BE FILED FOR SPRINKLERS AS REQUIRED.
25. HOUSE NUMBERS SHALL BE PROPERLY DISPLAYED AS PER SECTION 886 OF THE NEW YORK CITY CHARTER.
26. PROVIDE GOVERNMENT APPROVED TYPE MAIL BOXES AS INDICATED ON DRAWINGS AND AS PER SEFCTION 57 MDL.
27. LIGHTING AND VENTILATION OF ROOMS SHALL BE AS PER SECTION 31 OF MDL.
28. ALCOVES SHALL BE AS PER SECTION 32 OF MDL
29. COOKING SPACES SHALL BE AS PER SECTION 33 OF MDL.
30. ROOMS IN BASEMENTS AND CELLARS SHALL BE AS PER SECTION 34 OF MDL.
31. BUILDING ENTRANCE DOORS AND LIGHTS SHALL BE AS PER SECTION 35 OF MDL.
32. WINDOWS AND SKYLIGHTS FOR PUBLIC HALLS AND STAIRS SHALL BE AS PER SECTION 36 OF MDL.
33. ENTRANCE HALLS TO BE AS PER SECTION 50 OF MDL.
34. BUILDING ENTRANCE DOORS, LOCKS AND INTERCOM SYSTEM SHALL BE SECTION 50-A OF MDL.
35. APARTMENT PEEPHOLES SHALL BE AS PER SECTION 51-A OF MDL.
36. MIRRORS IN SELF-SERVICE ELEVATORS SHALL BE AS PER SECTION 51-B OF MDL.
37. FIRE ESCAPES SHALL BE AS PER SECTION 53 OF MDL.
38. WAINSCOTING SHALL BE AS PER SECTION 55 OF MDL.
39. ENTRANCE BOLTS AND MAIL BOXES SHALL BE AS PER SECTION 57 OF MDL.
40. ALL INCOMBUSTIBLE MATERIALS SHALL BE AS PER SECTION 58 OF MDL.
41. PARAPETS AND GUARD RAILINGS SHALL BE AS PER SECTION 62 OF MDL.
42. BELOW GRADE FLOORS SHALL COMPLY AS PER SECTION 63 OF MDL.
43. LIGHTING, GAS METERS, GAS AND OIL APPLIANCES, SHALL BE AS PER SECTION 64 OF MDL.
44. BOILER ROOMS SHALL BE AS PER SECTION 65 OF MDL.
45. WATER SUPPLY SHALL BE AS PER SECTION 75 OF MDL.
46. PLUMBING AND DRAINAGE SHALL BE AS PER SECTION 77 OF MDL.
47. REPAIRS SHALL BE MADE AS PER SECTION 78 OF MDL.
48. RECEPTACLES FOR WASTE MATTER SHALL BE AS PER SECTION 81 OF MDL.
49. PRIVACY SHALL BE AS PER SECTION 82 OF MDL.
50. JANITORIAL SERVICES SHALL BE AS PER SECTION 83 OF MDL.

ACM NOTES

1. ALL CONTRACTORS ARE HEREBY ADVISED THAT THERE MAY BE ASBESTOS PRESENT OR CONCEALED WITHIN THE CONTRACT AREAS. THE HANDLING OF THIS MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS PUBLISHED IN THE FEDERAL REGISTER BY OSHA, DEP. EPA AN OTHER FEDERAL AUTHORITIES HAVING JURISDICTION AND IN ADDITION ANY SUPPLEMENTAL LAWS, RULES AND REGULATIONS PROMULGATED BY STATE AND LOCAL ATHORITIES. THE CONTRACTORS PROPOSAL SHALL INCLUDE ANY SPECIAL HANDLING, TOOLS EQUIPMENT AND APPURTENANCES, TRANSPORTATION AND SPECIAL SAFETY CLOTHING AND APPURTENANCES FOR PERSONAL REQUIRED FOR ASBESTOS ABATEMENT. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED RELEVANT TO THIS WORK. AFTER ACCEPTANCE OF THE PROPOSAL BY THE OWNER. THE CONTRACTOR AND OWNER SHALL HOLD DAVID BURA HARMLESS FOR ANY AND ALL OCCURRENCES ARISING FROM OR RELATED TO THE ASBESTOS ABATEMENT AND/OR TRANSPORTATION TO THE APPROVED POINT OF DISPOSAL.
2. SHOULD ANY MATERIALS WHICH ARE SUSPECTED OF CONTAINING ASBESTOS BE UNCOVERED DURING DEMOLITION/RENOVATION ACTIVITIES. THE CONTRACTOR SHALL IMMEDIATELY STOP THE WORK AND NOTIFY THE ARCHITECT. THE CONTRACTOR SHALL THEN CONTACT AN ENVIRONMENTAL CONSULTANT WHO SHALL DETERMINE THE PRESENCE OF ASBESTOS MATERIALS AND PROVECE DIRECTION ON ANY PROCEDURES WHICH SHOULD BE IMPLEMENTED.
3. ANY MATERIAL COMPOSITION WHICH IS QUESTIONABLE SHALL BE BROUGHT TO THE ATTENTION OF THE ENVIRONMENTAL CONSULTANT. THE DETERMINATION OF THE MATERIAL CONTENT SHALL BE AT THE SOLE DISCREPTION OF THE CONSULTANT IF NECESSARY THE CONSULTANT SHALL PROVEDE CERTIFIED INDENTIFICATIONS WITHIN 48 HOURS.
4. THE CONTRACTOR SHALL PAY ALL ASSOCIATED COST TESTING AND MONITORING & FEES ASSOCIATED TO THE ASBESTOS REMOVAL.

DEMOLITION AND PROTECTION NOTES

1. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS REGARDING THE DEMOLITION OF STRUCTURES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PROPERTY.
3. THE CONTRACTOR SHALL SUBMIT A WRITTEN NOTIFICATION TO THE ARCHITECT AND OWNER DURING THE WORK OF DEMOLITION AND CUTTING CONDITIONS ARE DISCOVERED WHICH SIGNIFICANTLY VARY FROM THOSE SHOWN ON THE DRAWINGS.
4. THE CONTRACTOR SHALL ACCEPT THE CONDITION OF THE SITE AND STRUCTURES AS FOUND. THE ARCHITECT, CONSTRUCTION MANAGER AND OWNER ASSUME NO RESPONSIBILITY FOR CONDITION OF SITE OR STRUCTURES NOR THE CONTINUATION OF THE CONDITION EXISTING AT TIME OF BIDDING OR THERE AFTER.
5. CONDUCT DEMOLITION OPERATIONS AND THE REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
6. MAINTAIN ANY EXISTING UTILITIES REQUIRED TO REMAIN KEEP IN SERVICE AND PROTECT.
7. DISCONNECT AND SEAL ANY ABANDONED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS COORDINATE ALL WORK WITH LOCAL UTILITY COMPANIES HAVING JURISDICTION.
8. BEFORE COMMENCING ANY ALTERATION OR DEMOLITION WORK SUBMIT FOR REVIEW BY THE ARCHITECT, CONSTRUCTION MANAGER AND APPROVAL OF THE OWNER, A CONSTRUCT PROGRESS SCHEDULE SHOWING THE COMMENCEMENT, THE ORDER AND THE COMPLETION DATES FOR THE VARIOUS PARTS OF THIS WORK.
9. CONTRACTOR WILL EXECUTE DEMOLITION WORK TO INSURE PROTECTION OF EXISTING PORTIONS OF BUILDING TO REMAIN AGAINST DAMAGES.
10. CONTRACTOR WILL TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT, SETTLEMENT, DAMAGE, OR COLLAPSE OF ANY PART OF BUILDING, SIDEWALKS, ADJACENT PROPERTY OR STREET PASSAGES, BE LIABLE FOR ANY SUCH DAMAGE DOES ACCIDENTALLY OCCUR, CONTRACTOR SHALL REPAIR PROMPTLY AT NO COST TO OWNER.
11. CONTRACTOR WILL MAKE SUCH EXPLORATIONS AND PROBES AS ARE NECESSARY TO ASCERTAIN ANY REQUIRED PROTECTIVE MEASURES BEFORE PROCEEDING WITH DEMOLITION AND REMOVALS GIVE PARTICULAR ATTENTION TO SHORING AND BRACING REQUIREMENTS SO AS TO PREVENT ANY DAMAGE TO EXISTING CONSTRUCTION.
12. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT OF SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR AT CONTRACTOR EXPENSE SHALL ADVISE ON BRACING AND SHORING UNDERPINNING OR OTHER STRUCTURAL REQUIREMENTS THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR PREVENTION OF MOVEMENT OR OTHER STRUCTURAL FAULT.
13. INSPECT EXISTING CONDITIONS OF THE PROJECT, PRIOR TO COMPLETING DEMOLITION WORK, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR TO MOVEMENT DURING DEMOLITION AND CUTTING AFTER UNCOVERING WORK, INSPECT THE CONDITIONS AFFECTING THE INSTALLATION OR PERFORMANCE OF THE WORK REPORT DIFFERING OR QUESTIONABLE CONDITIONS TO THE ARCHITECT IN WRITING. DO NOT PROCEED WITH THE WORK UNTIL THE ARCHITECT HAS PROVIDED FURTHER INSTRUCTIONS.
14. PROVIDE ADEQUATE TEMPORARY SUPPORT AS NECESSARY TO ASSURE THE STRUCTURAL VALUE OR INTEGRITY OF THE AFFECTED PORTION OF THE WORK.
15. USE WATER SPRINKLING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR TO THE LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION, DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE FLOODING AND POLLUTION PROVIDE ADEQUATE DRAINAGE TO HOME SEWER, AND PROVIDE PUMPING WHERE NECESSARY.
16. CLEAN ADJACENT STRUCTURES AND PROPERTIES OF DUST DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING PRIOR TO THE START OF THE WORK.
17. DO NOT CUT OR REMOVE CONSTRUCTION WHICH MIGHT WEAKEN OR IMPAIR THE STRUCTURAL INTEGRITY OR STRENGTH OF THE STRUCTURAL FRAMING OR SUPPORT SYSTEMS WHICH ARE TO REMAIN.
18. WHERE PORTIONS OF STRUCTURES ARE TO BE REMOVED REMAINING PORTIONS SHALL BE PROTECTED FROM DAMAGE AND PREPARED TO FIT NEW CONSTRUCTION DAMAGE TO PORTIONS OF STRUCTURES SHOWN TO REMAIN SHALL BE PREPARED AT CONTRACTOR'S EXPENSE.
19. 1BE READY AT ANY TIME TO PROMPTLY PROVIDE, ADD TO OR STRENGTHEN TEMPORARY SHORING, BRACING OR SUPPORT FOR EXISTING WORK IN CASE EXISTING CONSTRUCTION BEGINS TO SHOW SIGNS OF STRUCTURAL STRESS.
20. TRANSPORT MATERIALS REMOVED FROM DEMOLISHED STRUCTURES AND LEGALLY DISPOSE OF OFF SITE. PAY ANY AND ALL FEES ASSOCIATED WITH DISPOSAL WORK. LEAVE THE SITE IN AN ORDERLY CONDITION TO THE APPROVAL OF THE ARCHITECT.
21. REMOVAL OF EXISTING MASONRY AND CONCRETE SHALL BE PERFORMED BY HAND. NO JACKHAMMER OR EXPLOSIVES SHALL BE USED.
22. ALL UNDERGROUND UTILITY SERVICES SHALL BE PROTECTED.
23. PROTECT EXIST FACADE AND CORNICE.
24. SCOPE OF DEMOLITION AND REMOVALS TO INCLUDE THE FOLLOWING: ALL INTERIOR PARTITIONS AND TRIM, ETC. ALL WOOD JOISTS AND FRAMING ALL MASONRY WHERE SHOWN ALL MISC. DEBRIS AND REFUSE WITHIN BUILDING & SITE. ALL EXISTING INTERIOR PARTITIONS AND SIDE WALL FURRING.
25. PATCH, REPAIR, PAIN AND/OR REPLACE TO MATCH EXISTING, ALL WORK TO REMAIN THAT IS DAMAGED OR OTHERWISE AFFECTED BY WORK OF THIS PROJECT. SEE ALL DRAWINGS, INCLUDING MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL.
26. WHERE NEW FLOOR FINISH IS CALLED FOR, THE EXISTING FINISH SHALL BE PREPARED TO RECEIVE THE NEW FINISH.
27. PROVIDE DUST PROOF BARRIERS AT ALL OCCUPIED AREAS ADJACENT TO NEW WORK, AND AT PUBLIC AREAS AFFECTED BY NEW WORK.
28. PAINT NEW WORK REQUIRING PAINTING IN COLORS TO BE SELECTED BY ARCHITECT.
29. ALL SCHEDULES SHALL BE REVIEWED WITH THE OWNER AND NO WORK SHALL COMMENCE UNTIL WRITTEN APPROVAL OF SCHEDULES IS OBTAINED FROM THE OWNER. ALL APPROVALS OF WORK SCHEDULES SHALL BE OBTAINED BY THE CONTRACTOR.
30. IN ADDITION TO WORK SHOWN ON ARCHITECTURAL DRAWINGS, COORDINATE WITH HVAC, PLUMBING, ELECTRICAL AND STRUCTURAL DRAWINGS FOR OTHER WORK OF PROJECT.
31. ALL EXISTING MATERIALS REMOVED BY CONTRACTOR TO PERFORM NEW WORK AND TO BE REINSTALLED SHALL BE PROTECTED BY THE CONTRACTOR AND IF DAMAGED SHALL BE REPLACED AT HIS OWN EXPENSE.
32. WHERE PARTITIONS ARE REMOVED AND/OR RELOCATED, REPAIR FLOOR CEILING AND WALLS TO MATCH ADJACENT SURFACES.
33. WHERE NEW MASONRY PARTITIONS ARE PROVIDED, REMOVE THE EXISTING FLOOR, WALLS AND CEILING FINISHES TO PROVIDE PROPER BONDING BETWEEN THE NEW PARTITION AND THE EXISTING STRUCTURE.
34. WHERE NEW PARTITION HAVE TO GO UP THROUGH EXISTING HUNG CEILING, CUT AND REPAIR CEILING AS NECESSARY AND PROVIDE NEW CEILING MOLDINGS TO SUIT THE TYPE OF CEILING.
35. WHERE MECHANICAL AND/OR ELECTRICAL WORK IS TO BE INSTALLED AND/OR REMOVED OVER EXISTING HUNG CEILING WHICH ARE TO REMAIN, REMOVE PART OF THE CEILING AS NECESSARY TO PERFORM THE NEW WORK, REPLACE THE CEILING AFTER THE WORK IS INSTALLED, PROVIDE ALL CUTOUTS AND CEILING MOLDINGS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE NEW REGISTERS, DIFFUSERS AND OTHER CEILING ITEMS.

TREEE PROTECTION NOTES

THE CONTRACTOR SHALL COMPLY WITH §[C26-1902.5] 27-1030 PROTECTION OF TREES.-NO TREES OUTSIDE THE STREET LINE SHALL BE DISTURBED OR REMOVED WITHOUT THE PERMISSION OF THE COMMISSIONER OF PARKS AND RECREATION. PROTECTION MEETING THE REQUIREMENTS OF THE DEPARTMENT OF PARKS AND RECREATION SHALL BE PROVIDED AROUND THE TRUNKS OF ALL SUCH TREES, AND WRITTEN NOTIFICATION SHALL ALSO BE MADE TO THE DEPARTMENT OF PARKS AND RECREATION AT LEAST FORTY-EIGHT HOURS PRIOR TO COMMENCEMENT OF SUCH WORK. NO DELETERIOUS, CAUSTIC, OR ACID MATERIALS SHALL BE DUMPED OR MIXED WITHIN TEN FEET OF ANY SUCH TREE, NOR SHALL SALT FOR THE REMOVAL OF ICE OR SNOW BE APPLIED WHEN RUNOFF WILL DRAIN TO A TREE.

FIRE-RESISTANCE RATING NOTES:

1. CONSTRUCTION: TYPE 1-D NON-COMBUSTIBLE CONSTRUCTION - SPRINKLERED.
2. UNLESS NOTED OTHERWISE ALL COLUMNS, BEAMS AND OTHER STRUCTURAL MEMBERS SHALL HAVE SPRAYED ON FIREPROOFING INSTALLED AT THE REQUIRED THICKNESS AND DENSITY TO ACHIEVE THE THE HOURLY RATINGS AS SET FORTH HEREAFTER. ALL SPRAYED-ON FIREPROOFING SHALL COMPLY WITH SECTION 27-132, INSPECTION REQUIREMENTS OF THE BUILDING CODE OF NEW YORK CITY.
3. ALL RATED PARTITIONS SHALL RUN PAST STRUCTURAL BEAMS, TO THE UNDERSIDE OF STRUCTURAL SLAB. WHERE THE PARTITIONS TERMINATE TO THE UNDERSIDE OF STRUCTURAL BEAMS, THE STRUCTURAL BEAMS SHALL HAVE ADDITIONAL SPRAYED-ON FIREPROOFING TO ACHIEVE AN AREA SEPARATION RATING EQUAL TO THAT OF THE PARTITION RATING, IF REQUIRED.
4. SPACE BETWEEN SLAB AND EXTERIOR WALL AND ALL OPENINGS IN THE FLOOR SLABS INCLUDING SPACES BETWEEN DUCTS, CONDUIT, PIPING, ETC., (EXCEPT WHEN COMPLETELY ENCLOSED BY FIRE RATED CONSTRUCTION), SHALL BE SAFED-OFF(FILLED) WITH APPROVED SAFING MATERIAL TO MAINTAIN FIRE RATING CONTINUITY OF THE FLOOR CONSTRUCTION. ALL JOINTS OF ANY ELEMENT OF CONSTRUCTION SHALL BE TIGHT AND PREVENT THE PASSAGE OF SMOKE OR FLAME.
5. WHERE MASONRY WALLS AT INTERIOR LOT LINES ARE BROKEN TO ACCOMMODATE STRUCTURE THEREBY REDUCING THE FIRE RATING OF THE WALL AT THE STRUCTURE, THEN THE STRUCTURE SHALL BE FIREPROOFED AT THE REQUIRED WALL RATING.
6. ALL FIRE RESISTIVE (LABELED) FIRE DOORS SHALL HAVE THE APPROPRIATE LABELS AFFIXED TO BOTH DOOR AND FRAME.
7. A FINISH OR FIRE RATING INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH OF WALL IS TO BE FINISHED OR FIRE RATED AS INDICATED.
8. ALL PIPING, DUCTS, ETC., THAT PENETRATE FLOOR SLABS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE RESISTIVE AND STRUCTURAL INTEGRITY OF THE BUILDING.
9. WHERE INTERIOR FINISH MATERIALS ARE SPACED (FURRED) FROM THEIR SUPPORTING MEMBERS, THE CONCEALED SPACES CREATED SHALL BE FIRE STOPPED AS REQUIRED BY CODE.
10. ALL RATINGS ARE TO COMPLY WITH THE FIRE RESISTANCE DESIGN MANUAL, ELEVENTH EDITION, AS MODIFIED BY RS 5-18 OF THE BUILDING CODE OF THE CITY OF NEW YORK.
11. OCCUPANCY: RESIDENTIAL J2
12. FIRE RESISTIVE RATINGS (AS PER FIRE INDEX I TABLE 3-4 OF NYC BUILDING CODE):
A. EXTERIOR NONBEARING WALLS:
OUTSIDE EXPOSURE
3'-0" OR LESS BEARING 2 HRS
NON- BEARING 2 HRS
MORE THAN 3'-0", BEARING 2 HRS
BUT LESS THAN 15'-0" NON- BEARING 2 HRS
15'-0"OR MORE, BEARING 1 HR
BUT LESS THAN 30'-0" NON- BEARING 1 HR
30'-0"OR MORE BEARING 1 HR
NON- BEARING 0 HRS
B. COLUMNS, GIRDERS AND TRUSSES:
1. SUPPORTING MORE THAN ONE FLOOR 1 HR
2. SUPPORTING ONE FLOOR ONLY 1 HR
C. FLOOR CONSTRUCTION INCLUDING BEAMS 1 HR
D. ROOF CONSTRUCTION INCLUDING BEAMS, TRUSSES AND FRAMING,
INCLUDING ARCHES, DOMES, SHELLS, CABLE SUPPORTED ROOF
AND ROOF DECKS.
1. 15'-0' OR LESS IN HEIGHT ABOVE FLOOR TO LOWEST MEMBER 1 HR 2. 15'-0' TO 20'-0' IN HEIGHT ABOVE FLOOR TO LOWEST MEMBER 1 HR 3. 20'-0' OR MORE IN HEIGHT ABOVE FLOOR TO LOWEST MEMBER 0 HR
E. INTERIOR NONBEARING WALLS: 2 HRS
1. EXIT WAYS AND STAIR ENCLOSURES 2 HRS
2. ELEVATOR HOIST WAY ENCLOSURES 2 HRS
3. PIPE SHAFTS AND DUCT ENCLOSURES2 HRS 4. GAS, WATER AND EJECTOR ROOM 2 HRS
5. ELECTRIC ROOM 2 HRS
6. ELEVATOR MACHINE ROOMS 2 HRS
7. BOILER ROOM 2 HRS
F. INTERIOR BEARING WALLS AND BEARING PARTITIONS 1 HR
13. FIRE SEPARATIONS (AS PER TABLE 5-1 OF NYC BLDG CODE) J-2 NEXT TO J-2 : 1 HOUR FIRE RATED

DIMENSIONING

1. ALL WALLS ARE ORTHOGONAL TO THE PROPERTY LINES UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE KNOWLEDGEABLE OF WHICH PROPERTY LINE DETERMINES THE ORIENTATION OF EACH WALL, AND SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS REQUIRING CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
2. PARTITIONS ARE DIMENSIONED TO THE UNFURNISHED FACE OF THE WALL UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE.
4. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING TO WITH THE WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY CORRECTIONS.
5. DOOR OPENINGS ARE GENERALLY DIMENSIONED TO CENTERLINE OF OPENING. DOOR OPENINGS THAT ARE NOT DIMENSIONALLY LOCATED ARE TO BE CENTERED BETWEEN WALLS OR POSITIONED WITH ONE JAMB AGAINST AND ADJACENT WALL OR COLUMN AS SHOWN ON THE PLANS AND/OR DETERMINED FROM THE DETAILS.
6. WHEN UNDIMENSIONED PARTITIONS APPEAR IN CONJUNCTION WITH DOOR OPENINGS THE DOOR WIDTH AND DOOR FRAME DETAILS DETERMINE THE LOCATION OF THE ADJACENT WALLS AND FRAMES.

Revision No.	Date	Remarks

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Project:
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Title:
GENERAL NOTES

DWG #
A-003.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039812 STATE OF NEW YORK

Date: 10/12/11
Scale: 1 1/2" = 1'-0"
Drawn: Designer
Job # 32157
Checked: Checker

PARTITION NOTES

1. DEFLECTION FOR ALL PARTITIONS SHALL NOT EXCEED 1/240TH OF THE SPAN MAXIMUM FOR TYPICAL GYPSUM PARTITIONS, OR 1/360 FOR WOOD-CLAD PARTITIONS, OR STONE-CLAD PARTITION SYSTEMS.
2. WATER RESISTANT DRYWALL (FOR THE FULL HEIGHT OF THE PARTITION CONSTRUCTION) SHALL BE USED IN TOILETS, SHOWERS, SERVICE ROOMS, ETC. USE STANDARD GYPSUM BOARD FOR CEILING CONSTRUCTION.
3. PENETRATIONS: COORDINATE WITH MECHANICAL CONTRACTOR FOR OPENINGS REQUIRED FOR RETURN AIR IN FULL HEIGHT PARTITIONS.
4. PROVIDE LATERAL BRACING TO STRUCTURE ABOVE FINISHED CEILINGS FOR PARTITIONS EXCEEDING UNSUPPORTED HEIGHTS INDICATED ON DRAWINGS.
5. PROVIDE HORIZONTAL CONTROL JOINTS AT 12'-0' O.C. IN THE VERTICAL DIRECTION UNLESS NOTED OTHERWISE.
6. PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD CONSTRUCTION SUCH THAT PARTITION OR FURRING RUNS DO NOT EXCEED 30', AND CEILING DIMENSIONS DO NOT EXCEED 50' IN EITHER DIRECTION WITH PERIMETER RELIEF OR 30' WITHOUT PERIMETER RELIEF.
7. PROVIDE VERTICAL CONTROL JOINTS WITH SEALANT IN MASONRY WALLS AS SHOWN IN DRAWINGS WITH MAXIMUM SPACING OF 25'-0'.
8. COMPLETELY SEAL WITH ACOUSTICAL SEALANT HEADS, BASES, AND ENDS, PLUS ALL PENETRATIONS(INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING WORK).
9. PROVIDE SOUND BLANKETS AS INDICATED.

FINISHES AND DETAILS

1. 1INTERIOR FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH SURFACE FLAME SPREAD RATINGS (PER RS 5-5) AND SHALL BE USED IN ACCORDANCE WITH TABLE 504, AND 27-348. % OF THE AGGREGATE
2. NO INTERIOR FINISH MATERIAL COVERING MORE THAN 20 WALL AND CEILING AREA, SHALL BE USED IF IT DEVELOPS SMOKE IN GREATER DENSITY THAN THE RATING SHOWN IN TABLE 27-348(d).
3. 3. ATTACHMENTS AND ADHESIVES FOR INTERIOR FINISH TO HAVE THE SAME FLAME-SPREAD, AND SMOKE DEVELOPED RATING OF THE INTERIOR FINISHES, AS PER 27-348(F).
4. NO MATERIAL SHALL BE USED IN ANY INTERIOR LOCATION WHICH WILL PRODUCE PRODUCTS MORE TOXIC THAN THOSE GIVEN OFF BY WOOD OR PAPER WHEN DECOMPOSING OR BURNING AS PER 27-348(E).
5. COATINGS APPLIED BY BRUSH OR SPRAY SHALL NOT BE USED AS FLAME-SPREAD RETARDANTS EXCEPT AS PROVIDED IN 27-349.
6. FOR CONSTRUCTION GROUP 1, COMBUSTIBLE FLOORING MAY BE USED WHEN IN COMPLIANCE WITH 27-351(B).
7. FLOORS IN REQUIRED EXITS SHALL NOT HAVE ANY CARPET. ONLY WOOL CARPETING MAY BE INSTALLED IN LOBBY AREAS, EXIT PASSAGEWAYS, AND CONVENIENCE STAIRS, AS PER 27-351(D)(1).
8. CARPET, WHEN USED AS A FLOOR COVERING, SHALL HAVE FLAMMABILITY REQUIREMENTS IN ACCORDANCE WITH RS 5-20. IF USED AS AN INTERIOR FINISH, IT SHALL COMPLY WITH PROVISIONS REGARDING INTERIOR FINISH, IT SHALL COMPLY WITH PROVISIONS REGARDING INTERIOR FINISHES AS PER 27-348.
9. ALL GLASS PANELS, USED IN WINDOWS, IN DOORS, AS INTERIOR PARTITIONS, ETC., SHALL BE IN COMPLIANCE WITH SUBCHAPTER 10, ARTICLE 12, AND RS 10-68. THICKNESS, MAXIMUM GLASS PANEL AREA, STRENGTH, ETC., OF GLASS PANEL SHALL BE IN ACCORDANCE WITH TABLES 10-6, 10-7, 10-8 OF SUBCHAPTER 10 ARTICLE 12.
10. EXCEPT FOR MISCELLANEOUS TRIMS, MOLDINGS, ETC., ALL WOOD USED SHALL BE FIRE-RETARDANT, I.E. COUNTER TOPS, CABINETS, DOORS, ETC.

LOCAL LAW 58/87 NOTES

1. ALL UNITS SHALL BE ADAPTABLE AS REQUIRED BY LOCAL LAW 58/87.
2. ADAPTABLE UNITS SHALL HAVE DOOR WIDTHS AND CLEAR FLOOR SPACES PER RS 4-6.
3. INTERIOR ACCESS, FLOOR SURFACES, ADAPTABLE KITCHENS, ADAPTABLE KITCHENETTES AND ADAPTABLE BATHROOMS SHALL BE PER RS 4-6.
4. ADAPTABILITY SHALL APPLY TO WATER CLOSET AND TOILET PAPER DISPENSER, LAVATORY AND REMOVABLE BASE CABINET, MIRRORS, MEDICINE CABINET, BATHTUB AND CONTROLS, BATHTUB AND SHOWER ENCLOSURE, REINFORCED AREAS FOR GRAB BARS, CLEARANCE BETWEEN OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES AND WALLS, ADJUSTABLE OR REPLACEABLE SINK AND REMOVABLE BASE CABINET, AS WELL AS STORAGE CABINETS, DRAWERS AND SHELVES.

EGRESS NOTES

1. CORRIDORS ARE TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF 27-369, INCLUDING THE FOLLOWING CORRIDORS ARE TO HAVE A CLEAR HEIGHT OF 75% OF FLOOR AREA, WITH NO POINT LESS THAN 7"-6" FOR AT LEAST 7'-0' IN HEIGHT. NO PROJECTION BELOW THE CEILING IS TO BE LOCATED SO AS TO OBSTRUCT FULL VIEW OF EXIT SIGNS.
2. DOORS ARE TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF 27-371, INCLUDING THE FOLLOWING:
   A. DOORS FOR REQUIRED EXITS ARE TO BE SELF CLOSING WITH A 1 1/2 HOUR FIRE PROTECTION RATING, EXCEPT THAT EXTERIOR STREET FLOOR EXIT DOORS HAVING AN EXTERIOR SEPARATION OF MORE THAN 15' NEED NOT BE FIRE PROTECTED.
   B. DOOR JAMBS OR STOPS AND THE DOOR THICKNESS WHEN OPEN IS NOT TO TO REDUCE THE REQUIRED WIDTH BY MORE THAN 3" FOR EACH 22" OF WIDTH DOOR OPENINGS TO ALL HABITABLE AND OCCUPIABLE ROOMS IS TO BE A MINIMUM NOMINAL WIDTH OF 32".
   C. ALL EXIT DOORS ARE TO BE OPEN IN THE DIRECTION OF THE EGRESS.
   D. FLOOR LEVELS ON BOTH SIDES OF ALL EXIT AND CORRIDOR DOORS ARE TO BE ESSENTIALLY LEVEL AND AT THE SAME ELEVATIONS FOR A DISTANCE, PERPENDICULAR TO THE DOOR OPENING, AT LEAST EQUAL TO THE WIDTH OF THE DOOR LEAF, EXCEPT THAT WHERE DOORS LEAD OUT OF A BUILDING THE FLOOR LEVEL INSIDE MAY BE 7 1/2" HIGHER THAN THE LEVEL OUTSIDE.
3. INTERIOR STAIRS ARE TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF 27-375 AND TABLE 6-4, INCLUDING THE FOLLOWING:
   A. THE CLEAR HEADROOM IS TO BE 7' MINIMUM.
   B. LANDINGS AND PLATFORMS PROVIDED AT THE HEAD AND FOOT OF EACH FLIGHT OF STAIRS ARE TO HAVE A MINIMUM WIDTH, PERPENDICULAR TO THE DIRECTIONS OF TRAVEL, OF AT LEAST THE WIDTH OF THE STAIR. IN AN INTERMEDIATE LANDING IN STRAIGHT-RUN STAIRS, THE DISTANCE BETWEEN RISERS OF THE UPPER AND LOWER FLIGHTS NEED NOT BE MORE THAN 44". LANDINGS AND PLATFORMS ARE TO BE ENCLOSED BY WALLS, GRILLS, OR GUARDS AT LEAST 3' HIGH.
   C. THE MAXIMUM VERTICAL RISE OF A SINGLE FLIGHT OF STAIRS BETWEEN FLOORS IS NOT TO EXCEED 12' IN ALL OCCUPANCY GROUPS, EXCEPT F AND H WHERE THE VERTICAL RISE IS NOT TO EXCEED 8'. NO FLIGHT OF STAIRS IS TO HAVE LESS THAN TWO RISERS.
   D. THE SUM OF TWO RISERS PLUS ONE THREAD IS NOT TO BE LESS THAN 24" NOR MORE THAN 25 1/2". RISER HEIGHT AND THREAD WIDTH SHALL BE CONSISTENT IN ANY FLIGHT OF STAIRS FROM STORY TO STORY.
4. AS PER 27-381, ILLUMINATION OF AT LEAST TWO FOOT CANDLES MEASURED AT THE FLOOR LEVEL SHALL BE MAINTAINED CONTINUOUSLY, DURING OCCUPANCY IN EXISTS AND THEIR ACCESS FACILITIES FOR THEIR FULL LENGTH, AT CHANGES IN DIRECTION IN AND INTERSECTIONS OF CORRIDORS, BALCONIES, EXIT PASSAGEWAYS, STAIRS, RAMPS, ESCALATORS, BRIDGES, TUNNELS, LANDINGS, AND PLATFORMS, AND AS PROVIDED IN SUBCHAPTER 5 OF THIS CHAPTER FOR PLACES OF ASSEMBLY, EXCEPT THAT THIS REQUIREMENT SHALL NOT APPLY TO DWELLING UNITS.
5. AS PER 27-381, BUILDINGS AND EXISTING BUILDINGS CONTAINING AN F-4 PLACE OF ASSEMBLY WITH AN OCCUPANT LOAD OF THREE-HUNDRED OR MORE PERSONS SHALL INSTALL EMERGENCY LIGHTING IN EACH VERTICAL EXIT SERVING THE FLOOR ON WHICH THE PLACE OF ASSEMBLY IS LOCATED SO AS TO PROVIDE A CONTINUOUSLY LIGHTED PASSAGE TO THE EXTERIOR OF THE BUILDING. SUCH LIGHTING SHALL BE CONNECTED TO AN EMERGENCY POWER SOURCE OR TO STORAGE BATTERY EQUIPMENT MEETING THE REQUIREMENTS OF THE BUREAU OF ELECTRICAL CONTROL OF THE DEPARTMENT OF THE GENERAL SERVICES AND THE COMMISSIONER.
6. BS&A APPROVED TYPE EXIT SIGNS ARE TO BE PROVIDED AS REQUIRED, PER SUBCHAPTER 6, ARTICLE 7.

CONTRACTOR SUBMITTALS

1. CONTRACTOR SHALL PROVIDE THE FOLLOWING FORMS TO THE APPLICANT FOR SUBMITTAL TO THE DEPARTMENT OF BUILDINGS.
   A. CONCRETE MASONRY FORMS 10H AND 10J
   B. QUALITY OF STEEL AFFIDAVIT FORM 2055.

PLUMBING AND DRAINAGE NOTES

1. ALL PLUMBING AND GAS PIPING WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE SUBCHAPTER 16 AND REFERENCE STANDARD RS-16 OF THE NEW YORK CITY BUILDING CODE.
2. ALL MATERIALS AND EQUIPMENT INSTALLED SHALL BE OF MANUFACTURE AND MODEL APPROVED FOR USE IN NEW YORK CITY, COMPLETE WITH M.E.A. APPROVAL NO'S.
3. ALL GAS-FIRED EQUIPMENT TO BE A.G.A OR M.E.A. APPROVED.
4. PLUMBING CONTRACTOR TO EXAMINE PROPOSED LAYOUT WITH REGARD TO EXISTING FIELD CONDITIONS, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ASSUMED FIELD CONDITIONS AND THOSE ENCOUNTERED DURING CONSTRUCTION. PLUMBING CONTRACTOR SHALL INFORM ARCHITECT OF ANY REVISIONS TO PLAN WHICH SHALL BE NECESSARY, BASED ON CONDITIONS UNCOVERED IN THE FIELD, IN ORDER TO INSTALL ALL FIXTURES, EQUIPMENT AND PIPING IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE AND/OR AS PER DESIGNS SHOWN IN THE CONTRACT DOCUMENTS.
5. PLUMBING CONTRACTOR SHALL ARRANGE AND OBTAIN INSPECTIONS AND REQUIRED SIGN-OFFS.
6. WATER SUPPLY BRANCHES AND RISERS SHALL BE SIZED TO ,PRODUCE VELOCITIES NOT IN EXCESS OF 8 FPS FOR THE PROBABLE DEMAND FLOW.
7. A SHUT-OFF VALVE AND DRAIN VALVE SHALL BE INSTALLED AT THE FOOT OF EACH WATER SUPPLY RISER, AS PER RS-16,P107.69 (B).

MECHANICAL VENTILATION NOTES:

1. ALL BATHROOM AND TOILET ROOMS TO HAVE MECHANICAL VENTILATION PROVIDING MINIMUM 50 CFM EXHAUST. BATHROOM DUCT RISERS TO BE 8X8, MINIMUM 18 GA SHEET METAL.
2. ALL KITCHENETTES TO BE PROVIDED WITH MECHANICAL VENTILATION PROVIDING MIN 125 CFM EXHAUST KITCHEN DUCT RISERS TO 8X10, MINIMUM 18 GA SHEET METAL.
3. DUCT RISERS TO BE FIRE RETARDED WITH TWO (2)lAYERS TYPE 'X' GYPSUM BOARD ON ALL SIDES, ATTACHED WITH CONSTRUCTION ADHESIVE AND 18 GA WIRE TIES @ 4'-O' O.C. (NO SCREWS TO BE USED).
4. WHERE DUCTS PASS THROUGH FLOOR, FLOOR OPENINGS TO BE CUT TIGHT TO DUCT, AND REMAINING GAP BETWEEN DUCT AND FLOOR CONSTRUCTION TO BE FILLED WITH MINERAL WOOL.
5. EACH BATHROOM AND KITCHEN TO BE EQUIPPED WITH ITS OWN INDEPENDENT EXHAUST BLOWER WITH BACKDRAFT DAMPER.
6. EACH BATHROOM AND KITCHEN OUTLET TO BE EQUIPPED WITH A BS&A APPROVED FIRE DAMPER.
7. ALL DUCT WORK SHALL BE CONSTRUCTED AS PER RS-13-1 (301), DUCT HANGERS SHALL BE AS PER RS-13-1 (319).
8. MINIMUM 8'X8' OUTDOOR AIR INTAKE (F.A.I.) with BS&A APPROVED FIRE DAMPER TO BE PROVIDED FOR BOILER ROOM.

NOISE CONTROL IN MULTIPLE DWELLING BUILDINGS:

1. NOISE CONTROL IN MULTIPLE DWELLING BUILDINGS TO MEET N.Y.C. BUILDING CODE 27-768, 27-769 AND 27-770.

ENERGY CODE NOTES

ALL PERTINENT DATA AND DESIGN CRITERIA REGARDING THE FOLLOWING SHALL CONFORM WITH BOTH THE NEW YORK STATE ENERGY CONSERVATION CODE AND NEW YORK CITY BUILDING CODE, WHICHEVER IS MORE STRINGENT:

A. "U" VALUES OF THE ENVELOPE SUBSYSTEM.
B. DESIGN INSIDE AIR TEMPERATURE OF EACH ROOM THAT IS TO BE HEATED AND/OR COOLED.
C. DESIGN OUTDOOR AIR TEMPERATURE.
D. DESIGN HEAT LOSS AND /OR HEAT GAIN THROUGH EACH EXTERIOR FACADE IN B.T.U./HR.
E. "R" VALUES OF INSTALLATION MATERIALS.
F. SIZE AND TYPE OF APPARATUS, EQUIPMENT, SYSTEM CONTROLS AND OTHER PERTINENT DATA TO INDICATE CONFORMANCE WITH THE REQUIREMENTS OF THE CODE.
G. ELECTRICAL LIGHTING AND POWER DESIGN DATA.
H. FIRE PROTECTION CONSTRUCTION REQUIREMENTS , INCLUDING BUILDING CODE LIMITATIONS REGARDING USE AND INSULATION OF EQUIPMENT: AND THAT THE CONSTRUCTOR OR HIS AUTHORIZED REPRESENTATIVES WILL OBTAIN ALL NECESSARY APPROVALS FOR ELECTRICAL WORK FROM THE BUREAU OF GAS AND ELECTRICITY.
I. "U" VALUES OF ENVELOPE SYSTEM,

WALLS	R-11	U=0.08
FLOORS	R-11	U=0.08
ROOF	R-19	U= 0.05

J. DESIGN OF INSIDE AIR TEMPERATURE OF EACH ROOM THAT IS HEATED AND/OR COOLED

HEATED	70F (MIN. N.Y.C.)
HEATED	72F (MAX. N.Y.C.)

A.C. AIR CONDITIONING
A.D. AREA DRAIN
A.T.C. ACOUSTIC TILE CEILING
A.F.F. ABOVE FINISHED FLOOR
ALUM. ALUMINUM
A.N. AS NOTED
APT. APARTMENT

B. BATHROOM
B.C. BRICK COURSE
BLDG. BUILDING
BLK. BLOCK
BM. BEAM
BOTT. BOTTOM
BR. BRICK
B.S.A.A. BOARD OF STANDARDS AND APPEALS.
B.T. BATH TUB

CAB. CABINET
CEM.ASB CEMENT ASBESTOS
C.H. CONCRETE HARDENER
C.J. CONSTRUCTION JOINT
CL. CLOSET
CL'G. CEILING
C.M.T. CORRUGATED METAL BRICK TIE
COL. COLUMN
CONC. CONCRETE
CONT. CONTINUOUS
CONV. CONVECTOR
CPT. CARPET
C.R. CEILING REGISTER
C.S. CAST STONE
C.T. CERAMIC TILE
C.W. COLD WATER

D. DIAMETER
D.E. DRYER EXHAUST
DET. DETAIL
D.L. DOUBLE LAYER
DN. DOWN
D.W. DISH WASHER
DWG. DRAWING

E.G. ESTABLISHED GRADE
E.H. ELECTRIC HEATER
E.J. EXPANSION JOINT
E.L. ELEVATION LEVEL
ELEC ELECTRIC
ELEV. ELEVATION
EQ. EQUAL
E.W.P.M. ELASTOMERIC WATERPROOF MEMBRANE

F. FOYER
F.A.I. RESH AIR INTAKE
F.D. FLOOR DRAIN
F.F. FINISHED FLOOR
FIN. FINISH
FLASH'G FLASHING
FLR. FLOOR
F.P. FIRE PROOF
F.P.H.B. FROST PROOF HOSE BIBB
F.P.S.C. FIRE PROOF SELF CLOSING
F.S.P. FIRE STAND PIPE

GA. GAUGE
GALV. GALVANIZED
GL. GLASS
GR. GRADE
G.W.B.GYPSUM WALL BOARD

H.B. HOSE BIB
H.C. HUNG CEILING
H.CAB. HANGING CABINET
H.M. HOLLOW METAL
H.P. HIGH POINT
H.R. HAND RAIL
H.V. HALL VENT (DUCT)
H.V.A.C. HEATING, VENTILLATION, & AIR CONDITIONING
I.D. INSIDE DIAMETER
INC. INDLUCING
INSUL. INSULATION

JT. JOINT

LAM. LAMINATED
LAV. LAVATORY
L.CL. LINEN CLOSET
L.P. LOW POINT
L.R. LIVING ROOM
L.W. LIGHT WEIGHT

MAX. MAXIMUM
M.C. MEDICINE CABINET
M.CL. METER CLOSET
MET. METAL
M & G METAL AND GLASS
MIN. MINIMUM
M.L. METAL LOUVER
M.O. MASONRY OPENING
M.S. MARBLE SILL
MTL.S. METAL SILL
M.V. MECHANICAL VENTILATION

N.C. NON CORRODING
N.I.C. NOT IN CONTRACT
N.T.S. NOT TO SCALE

O.C. ON CENTER
O.D. OUTSIDE DIAMETER
O.F. OVERFLOW
O.H. OPPOSITE HAND
OP'G. OPENING

P PAINTED
PART'N. PARTITION
P.D. PUMP DISCHARGE
P.DR. PLASTER DRAIN
P.E. PASSENGER ELEVATOR
P.H.V PUBLIC HALL VENT (DUCT)
P.R. POWDER ROOM

Q.T. QUARRY TILE

RM. ROOM
RESIL. RESILIENT

S.H. SERVICE HALL
SPKL. SPRINKLER
S.S. SLOP SINK
ST. STEEL
S.T.C. SOUND TRANSMISSION CLASS
STOR. STORAGE

T.R. TOP REGISTER
T.V. TOILET VENT (DUCT)

U URINAL

V.A.T. VINYL ASBESTOS TILE
V.C.J. VERTICAL CONTROL JOINT
VEST. VESTIBULE
V.W.C. VINYL WALL COVERING

W/ WITH
W.C. WATER CLOSET

Revision No.	Date	Remarks

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Project:
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Title:
GENERAL NOTES

DWG #
A-004.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039127 STATE OF NEW YORK

Date:	10/12/11
Scale:	1 1/2" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

LOCAL LAW 58 / 87 NOTES

1. All construction shall be in accordance with the requirements of the Building Code of the City of New York including all its applicable Local Law 58/87 ammendments.
2. All ground units and units within elevator portions of building to be Handicap Adaptable as per LL 58 1987
3. Adaptable units shall have door widths and clear floor spaces as per NYCBC RS 4-6
3. Adaptability shall apply to water closet and toilet dispenser, lavatory and removable base cabinet, bathtub and controls, bathtub and shower enclosure, reinforced areas for grab bars, clearance between oposing base cabinets, counter tops, appliances and walls, adjustable or replaceable sink and removable base cabinet, as well as storage cabinets, drawers and shelves.
4. Interior Access, floor surfaces, adaptable kitchens, adaptable kitchennettes and adaptable shall be as per NYCBC RS 4-6
5. Adaptable units shall have door widths and clear floor spaces per NYCBC RS 4-6
6. Controls within adapatable areas and accessible routes shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist as pe NYCBC RS 4-6
7. for doors with closers, the sweep period of the closer shall be adjustable such that form a 90 degree opening, the door will take at least 3 seconds to move to a position of approx. 12 degrees, as per NYCBC RS 4-6 4.13.10

NYCBC DEFINITIONS AS AMMENDED
BY NYC LOCAL LAW 58 - 1987

ACCESSIBLE ROUTE
A continuous onobstructed path connecting all accessible spaces and rooms in a building that can be negotiated by all categories of people having physical disabilities. Interior accessible routes may include corridors, floors doorways, ramps, elevators, lifts and clear floor space adjacent to fixtures. Exterior accessible routes may include parking access aisles, curb ramps, walks, ramps and lifts.

ADAPTABLE DWELLING UNITS
Dwelling units which are constructed on an accessible route and equipped as set forth in reference standard RS 4-6, so that they may be converted to be used, with a minimum of structural change, by all categories of people having physical disabilities.

(a)
Proportions
International Symbol of Accessibility

(b)
Display Conditions
International Symbol of Accessibility

FIG. 43
International Symbols

4. ACCESSIBLE ELEMENTS AND SPACES

4.1 Basic Components
Accessible sites, facilities, and buildings, including public-use, employee-use, and common-use spaces in housing facilities, shall provide accessible elements and spaces as identified in Table 2. Application by adopting authorities shall be in accordance with Section 2.

4.13 DOORS

4.13.1 General. Doors to accessible spaces and elements and along accessible routes shall comply with the requirements of 4.13.

4.13.2 Revolving Doors and Turnstiles.
Revolving doors or turnstiles shall comply with 4.13 or shall not be the only means of passage at an accessible entrance or along an accessible route.

4.13.3 Gates. Gates, including ticket gates, shall meet all applicable specifications of 4.13.
4.13.4 Double-Leaf Doorways. If doorways have two independently operated door leaves, then at least one leaf shall meet the specifications in 4.13.5 and 4.13.6. That leaf shall be an active leaf.

4.13.5 Clear Width. Doorways intended for user passage shall have a minimum clear opening of 32 in (815 mm) with the door open 90 degrees, measured between the face of the door and the stop (see Fig.24 (a), (b), (c), and (d)).

4.13.6 Maneuvering Clearances at Doors. Minimum maneuvering clearances at doors that are not automatic shall be as shown in Fig.25. The floor or ground area within the required clearances shall be level and clear. Entry doors to acute care hospital bedrooms for inpatients shall be exempt from the requirement for space at the latch side of the door (see dimension x in Fig.25)If the door is at least 44 in (1120 mm) wide.

4.13.8* Thresholds at Doorways. Thresholds at doorways shall not exceed 3/4 in (19 mm) in height for exterior residential sliding doors or 1/2 in (13 mm) for other types of doors. Raised thresholds and floor level changes at accessible doorways shall be beveled with a slope no greater than 1:2 (see 4.5.2).

4.13.9* Door Hardware. Handles, pull, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. They shall be mounted within reach ranges specified in 4.2. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides. In dwelling units, only doors at accessible entrances to the unit itself shall comply with the requirements of this paragraph. Doors to hazardous areas shall have hardware complying with 4.27.3.

4.13.10* Door Closers. If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 90 degrees, the door will take at least 3 seconds to move to an open position of approximately 12 degrees.

4.13.11* Door-Opening Force. The maximum force, expressed in pounds-force (lbf) and newtons (N), for pushing or pulling open a door shall be as follows:
(1) Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.
(2) Other doors:
(a) Exterior hinged doors: 8.5 lbf (37.8 N)
(b) Interior hinged doors: 5 lbf (22.2 N)
(c) Sliding or folding doors: 5 lbf (22.2 N)
These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.

4.14 ENTRANCES

4.14.1 General. Entrances to a building or facility that are part of an accessible route shall comply with 4.3. Such entrances shall be connected by an accessible route to public transportation stops, to accessible parking and passenger loading zones, and to public streets or sidewalks if available (see 4.3.2(1). They shall also be connected by an accessible route to all accessible spaces or elements within the building or facility.

4.14.2 Service Entrances. A service entrance shall not be the sole accessible entrance unless it is the only entrance to a building or facility (for example, in a factory or garage).

4.15.5 Clearances
(1) Wall-mounted and post-mounted cantilevered units shall have a clear knee space between the bottom of the apron and the floor or ground at least 27 in (685 mm) high, 30 in (760 mm) wide, and 17 in to 19 in (430 mm to 485 mm) deep (see Fig. 27 (a) and (b)). Such units shall also have a minimum clear floor space 30 in by 48 in (760 mm by 1220 mm)to allow a person in a wheelchair to approach the unit facing forward.
(2) Free-standing or built-in units not having a clear space under them shall have a clear floor space at least 30 in by 48 in (760 mm by 1220 mm) that allows a person in a wheelchair to make a parallel approach to the unit (see Fig. 27 (c) and (d)). This clear floor space shall comply with 4.2.4.

4.16 WATER CLOSETS

4.16.1 General. Accessible water closets shall comply with 4.16. For water closets in dwelling units, see 4.32.4.2.
4.16.2 Clear Floor Space. Clear floor space for water closets not in stalls shall comply with Fig. 28. Clear floor space may be arranged to allow either a left-hand or right-hand approach.
4.16.3* Height. The height of water closets shall be 17 in to 19 in (430 mm to 485 mm), measured to the top of the toilet seat (see Fig. 29). Seats shall not be sprung to return to a lifted position.
4.16.4* Grab Bars. Grab bars for water closets not located in stalls shall comply with Fig.29 and with Fig. 29 and with 4.24.
4.16.5* Flush Controls. Flush controls shall be hand operated or automatic and shall comply with 4.25.4. Controls for flush valves shall be mounted for use from the wide side of the toilet stall and shall be no more than 44 in (1120 mm) above the floor.
4.16.6 Dispensers. Toilet paper dispensers shall comply with 4.25.4 and shall be installed within reach, as shown in Fig. 29(b).

4.17 TOILET STALLS

4.17.1 General. Accessible toilet stalls shall be on an accessible route and shall comply with the requirements of 4.17.
4.17.2 Water Closets. Water closets in accessible stalls shall comply with 4.16.
4.17.3 Size and Arrangement. The size and arrangement of toilet stalls shall comply with either Fig. 30(a) or (b). Toilet stalls with a minimum depth of 56 in (1420 mm) (see Fig.30 (a)) or 66 in (1675 mm) (see Fig.30 (b)) shall have wall-mounted water closets. If the depth of toilet stalls is increased at least 3 in. (75 mm), then a floor-mounted water closet may be used. Arrangements shown for stalls may be reversed to allow either a left-hand or a right-hand approach.
4.17.4 Toe Clearances. In standard stalls, the front partition and at least one side partition shall provide a toe clearance of a least 9 in (230 mm) above the floor. If the depth of the stall is greater than 60 in (1525 mm), then the toe clearance is not required.
4.17.5* Doors. Toilet stall doors shall comply with 4.13, except that if the approach is to the latch side of the stall door, the clearance between the door side of the stall and any obstruction may be reduced to a minimum of 42 in (1065 mm) (see Fig.30).

4.17.5* Doors. Toilet stall doors shall comply with 4.13, except that if the approach is to the latch side of the stall door, the clearance between the door side of the stall and any obstruction may be reduced to a minimum of 42 in (1065 mm) (see Fig.30).
4.17.6 Grab Bars. Grab bars complying with the length and positioning shown in Fig. 30(a), (b), (c), and (d) shall be provided. Grab bars may be mounted by any desired method as long as they have a gripping surface at the locations shown and do not obstruct the required clear floor area. Grab bars shall comply with 4.24.

4.19 LAVATORIES, SINKS, AND MIRRORS

4.19.1 General. Accessible lavatory fixtures, sinks, vanities, and built-in lavatories shall comply with 4.19.
4.19.2 Height and Clearances
4.19.2.1 Lavatories. Lavatories shall be mounted with a clearance of at least 29 in (735 mm) from the floor to the bottom of the apron. Knee and toe clearances shall comply with Fig. 31.
4.19.2.2 Sinks. Sinks shall be mounted with the counter or rim no higher than 34 in (865 mm) from the floor. Each sink shall be a maximum of 6-1/2 in (165 mm) deep. (Sinks in kitchens of accessible dwelling units shall comply with 4.32.5.5)
4.19.3 Clear Floor Space. A clear floor space 30 in by 48 in (760 mm by 1220 mm) complying with 4.2.4 shall be provided in front of a lavatory or sink to allow a forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19 in (485 mm) underneath the lavatory or sink (see Fig. 32).
4.19.4 Exposed Pipes and Surfaces. How water and drain pipes under lavatories or sinks shall be insulated or otherwise protected if they abut the clearance areas indicated in Fig. 31. There shall be no sharp or abrasive surfaces under lavatories or sinks.
4.19.5 Faucets. Faucets shall comply with 4.25.4. Conventional one-quarter-turn, lever-operated, push-type, and automatically controlled mechanisms are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.
4.19.6* Mirrors. Mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 40 in (1015 mm) from the floor (see Fig. 31).

4.2.4* Clear Floor or Ground Space for Wheelchairs
4.2.4.1 Size and Approach. The minimum clear floor or ground space required to accommodate a singe, stationary wheelchair and occupant is 30 in by 48 in (760mm by 1220 mm) (see Fig.4(a). The minimum clear floor or ground space for wheelchairs may positioned for forward or parallel approach to an object (see Fig.4(b) and (c). Clear floor or ground space for wheelchairs may be part of the knee space required under some objects.
4.2.4.2 Relationship of Maneuvering Clearances to Wheelchair Spaces. One full unobstructed side of the clear floor or ground space for a wheelchair shall adjoin or overlap an accessible route or adjoin another wheelchair clear floor space. If a clear floor space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances shall be provided as shown in Fig. 4 (d) and (e).
4.2.4.3 Surfaces of Wheelchair Spaces. Clear floor or ground spaces for wheelchairs shall comply with 4.5.
4.2.5 Forward Reach. If the clear floor space allows only forward approach to an object, the maximum high forward reach allowed shall be 48 in (1220 mm) and the minimum low forward reach shall be unobstructed and no less than 15 in (380 mm) above the floor (see Fig.5(a)). If the high forward reach is over an obstruction, reach and clearances shall be as shown in Fig.5(b).
4.2.6 Side Reach. If the clear floor space allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54 in (1370 mm) and the low side reach shall be no less than 9 in (230 mm) above the floor (Fig.6(a)and (b). If the side reach is over an obstruction, the reach and clearances shall be as shown in Fig.6(c).

4.23 STORAGE

4.23.1 General. Accessible storage facilities such as cabinets, shelves, closets, and drawers shall comply with 4.23.
4.23.2 Clear Floor Space. A clear floor space at least 30 in by 48 in (760 mm by 1220 mm) complying with 4.2.4 that allows either a forward or parallel approach by a person using a wheelchair shall be provided at accessible storage facilities.
4.23.3 Height. Accessible storage spaces shall be within at least one of the reach ranges specified in 4.2.5 and 4.2.6. Clothes rods shall be a maximum of 54 in (1370 mm) from the floor (see Fig. 38).
4.23.4 Hardware. Hardware for accessible storage facilities shall comply with 4.25.4. Touch latches and U-shaped pulls are acceptable.

4.24 GRAB BARS,AND TUB AND SHOWER SEATS
4.24.2 Size and Spacing of Grab Bars. The diameter or width of the gripping surfaces of a grab bar shall be 1-1/4 in to 1-1/2 in (32 mm to 38 mm), or the shape shall provide an equivalent gripping surface. If grab bars are mounted adjacent to a wall, the space between the wall and the grab bar shall be 1-1/2 (38 mm) (see Fig.39(e)).
4.24.3 Structural Strength. The structural strength of grab bars, tub and shower seats, fasteners, and mounting devices shall meet the following specifications:
(1) Bending stress in a grab bar or seat induced by the maximum bending moment from the application of 250 lbf (1112N) shall be less than the allowable stress for the material of the grab bar or seat.

(2) Shear stress induced in a grab bar or seat by the application of 250 lbf (1112N) shall be less than the allowable stress for the material of the grab bar or seat. If the connection between the grab bar or seat and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.
(3) Shear force induced in a fastener or mounting device from the application of 250 lbf (1112N) shall be less than the allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.
(4) Tensile force induced in a fastener by a direct tension force of 250 lbf (1112N) plus the maximum moment front the application of 250 lbf (1112N) shall be less than the allowable withdrawal load between the fastener and the supporting structure.
(5) Grab bars shall not rotate within their fittings.
4.24.4 Eliminating Hazards. A grab bar and any wall or other surface adjacent to it shall be free of any sharp or abrasive elements. Edges shall have a minimum radius of 1/8 in (3.2 mm).

4.26 ALARMS

4.26.1 General. Emergency warning systems shall include both audible alarms complying with 4.26.2 and visual alarms complying with 4.26.3. Auxiliary visual alarms shall comply with 4.26.4.
4.26.2* Audible Alarms. Audible emergency alarms shall produce a sound that exceeds the prevailing equivalent sound level in the room or space by at least 15 decibels or exceeds any maximum sound level with a duration of 30 seconds by 5 decibels, whichever is louder. Sound levels for alarm signals shall not exceed 120 decibels.
4.26.3* Visual Alarms. Visual alarms shall be flashing lights arranged to flash in conjunction with the audible emergency alarms. The flashing frequency of visual alarms shall be approximately 1 Hz. Specialized systems using advanced technology may be substituted if equivalent protection is afforded handicapped users of the building or facility.

4.27 DETECTABLE WARNINGS

4.27.1 General. Detectable warnings shall comply with 4.27.
4.27.2* Detectable Warnings on Walking Surfaces. Detectable warning textures on walking surfaces shall consist of exposed aggregate concrete, cushioned surfaces made of rubber or plastic, raised strips, or grooves. Textures shall contrast with that of the surrounding surface. Raised strips or grooves shall comply with Fig. 40. Grooves may be used indoors only.
4.27.4 Detectable Warnings at Stairs. All stairs, except those in dwelling units, in enclosed stair towers, or set to the side of the path of travel shall have a detectable warning at the top of stair runs (see Fig. 41).

4.28 SIGNAGE

4.28.1* General. All signage that provides emergency information or general circulation directions or identifies rooms and spaces shall comply with 4.28.2, 4.28.3, and 4.28.5. Tactile signage shall also comply with 4.28.4.
4.28.2* Character Proportion. Letters and numbers on signs shall have a width-to-height ratio between 3:5 and 1:1 and a stroke-width-to-height ration between 1:5 and 1:10, utilizing an upper-case "X" for measurement.
4.28.3* Color Contrast. Characters and symbols shall contrast with their background - either light characters on a dark background or dark characters on a light background.

4.28.4 Tactile Characters or Symbols.
Characters, symbols, or pictographs on tactile signs shall be raised 1/32 in (0.8 mm) minimum. Raised letters and numbers shall be sans serif uppercase characters. Raised characters or symbols shall be at least 5/8 in (16 mm) high, but no higher than a nominal 2 in (51 mm).
4.28.5 Symbols of Accessibility. If accessible facilities are identified, then the international symbol of accessibility shall be used. The symbol shall be displayed as shown in Fig. 43.

4.3 ACCESSIBLE ROUTE

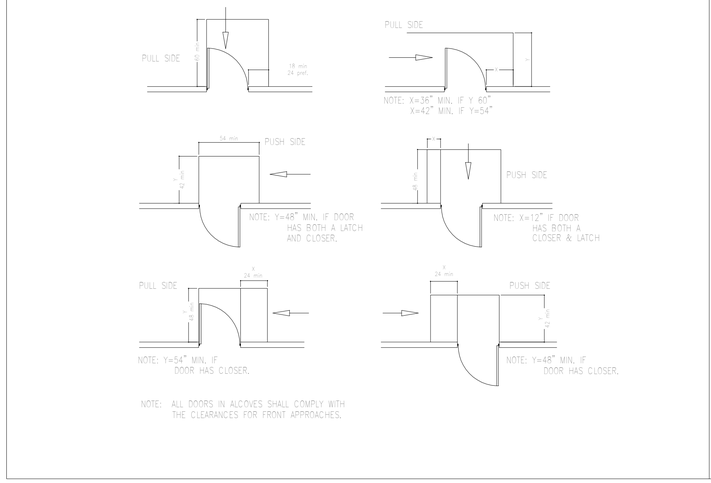
4.3.1* General. All walks, halls, corridors, aisles, and other spaces that are part of an accessible route shall comply with 4.3.
4.3.2 Location
(1) Accessible routes within the boundary of the site shall be provided from public transportation stops, accessible parking and accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance they serve.
(2) Accessible routes shall connect accessible buildings, facilities, elements, and spaces that are on the same site.
(3) Accessible routes shall connect accessible building or facility entrances with all accessible spaces and elements and with all accessible dwelling units within the building or facility.

(4) Accessible routes shall connect accessible entrances of each accessible dwelling unit with those exterior and interior spaces and facilities that serve the accessible dwelling unit.
4.3.3 Width. the minimum clear width of an accessible route shall be 36 in. (915mm) except at doors (see 4.13.5). If a person in a wheelchair must make a turn around an obstruction, the minimum clear width of the accessible route shall be as shown in Fig.7(a) and (b).

4.3.4 Passing Space. If an accessible route has less than 60 in (1525 mm) clear width, then passing spaces at least 60 in by 60 in (1525 mm by 1525 mm) shall be located at reasonable intervals not to exceed 200 ft (61 mm). An intersection of two corridors or walks shall also be considered a passing space.
4.3.5 Headroom. Accessible routes shall comply with 4.4.2.
4.3.6 Surface Texture. The surface of an accessible route shall comply with 4.5.
4.3.7 Slope. As accessible route with a running slope greater than 1:20 is a ramp and shall comply with 4.8. Nowhere shall the cross slope of an accessible route exceed 1:50.
4.3.8 Changes in Level. Changes in level along an accessible route shall comply with 4.5.2. If an accessible route has changes in level greater than 1/2 in (13 mm), then a curb ramp, elevator, or platform lift shall be provided that complies with 4.7,4.8, 4.10, or 4.11, respectively. Stairs shall not be part of an accessible route.
4.3.9 Doors. Doors that are part of an accessible route shall comply with 4.13.
4.3.10* Egress. Accessible routes serving any accessible space or element shall also serve as a means of egress for emergencies or connect to an accessible place of refuge. Such accessible routes and places of refuge shall comply with the requirements established by the administrative authority having jurisdiction.

4.5 GROUND AND FLOOR SURFACES

4.5.1* General. Ground and floor surfaces along accessible routes and in accessible rooms and spaces, including floors, walks, ramps, stairs, and curb ramps, shall be stable, firm, and slip resistant, and shall comply with 4.5.
4.5.2 Changes in Level. Changes in level up to 1/4 in (6 mm) may be vertical and without edge treatment. Changes in level between 1/4 in and 1/2 in (6 mm and 13 mm) shall be accomplished by means of a ramp that complies with 4.7 or 4.8.
4.5.4 Gratings. If gratings are located in walking surfaces, then they shall have spaces no greater than 1/2 in (13 mm) wide in one direction. If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel.



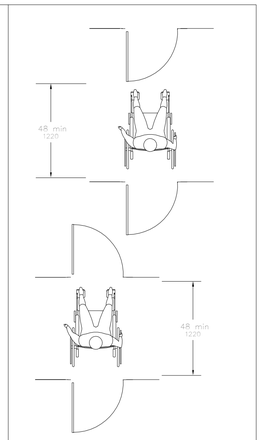
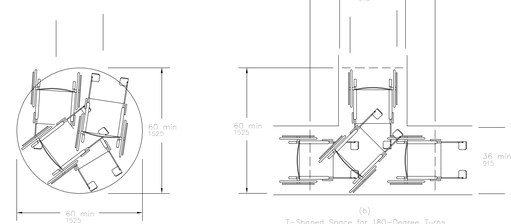
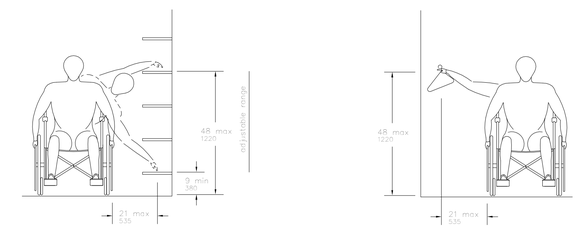


Fig. 26
Two Hinged Doors in Series



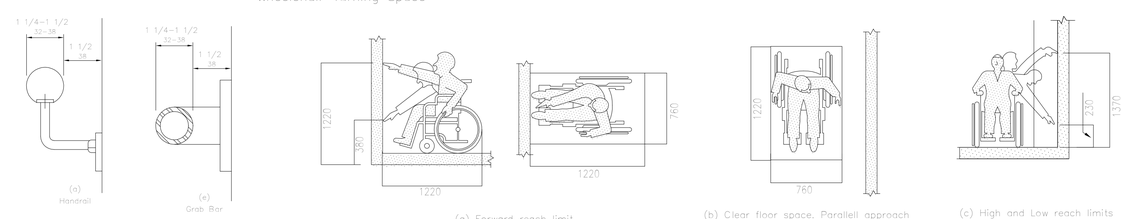
(a)
60" (1525 mm) Diameter Space
(b)
T-Shaped Space for 180-Degree Turns

FIG. 3
Wheelchair Turning Space



(a) Shelves
(b) Closets

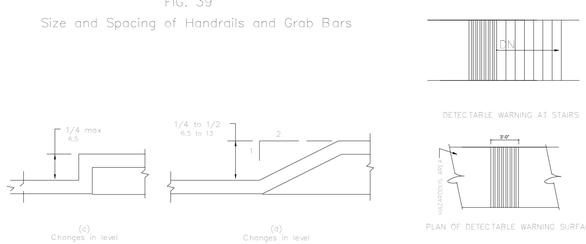
FIG. 38
Storage Shelves and Closets



(a)
Handrail
(e)
Grab Bar
(a) Forward reach limit
(b) Clear floor space, Parallell approach
(c) High and Low reach limits

FIG. 39
Size and Spacing of Handrails and Grab Bars

Side and Forward reach limitation



(c)
Changes in level
(d)
Changes in level

FIG. 7
Accessible Route

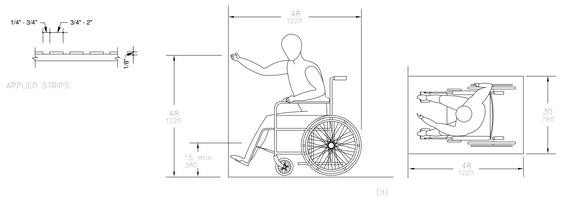


FIG. 41
DETECTABLE WARNING AT STAIRS

(a)
High Forward Reach Limit
Forward Reach
FIG. 5

Revision No.	Date	Remarks

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
HANDICAP NOTES I

DWG #
A-005.00

Signature:

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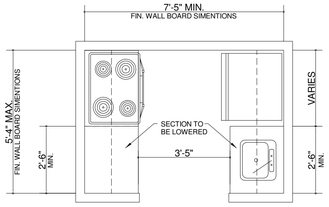
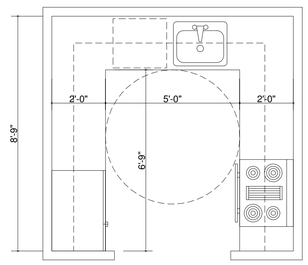
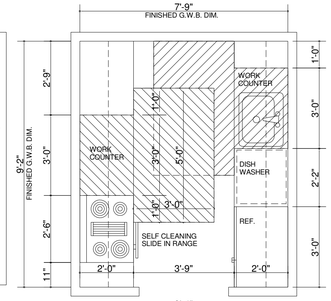
Date: 06/24/13
Scale: 3/16" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker



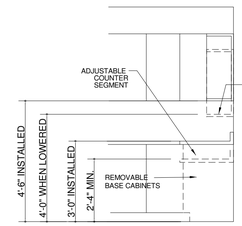
MINIMUM SIZED ADAPTABLE KITCHEN OR KITCHENETTE



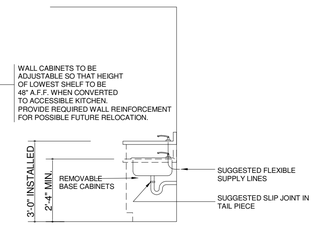
KITCHEN U-SHAPED PLAN



KITCHEN GALLY TYPE



ADAPTABLE KITCHEN
LOWERABLE WORK SURFACE
LOWERABLE WALL CABINETS

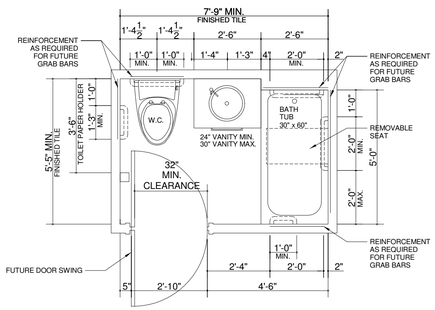


ADAPTABLE KITCHEN
LOWERABLE SINK COUNTER

ADAPTABLE KITCHENS (CAPABLE OF POSSIBLE FUTURE CONVERSION TO ACCESSIBLE KITCHENS)

GENERAL NOTES:

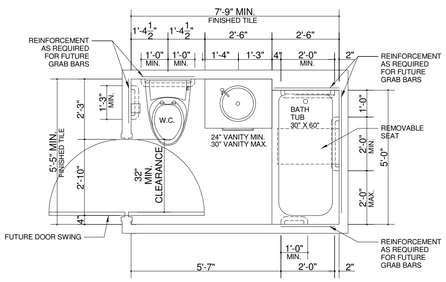
1. ONE LOWERABLE WORK SURFACE, 30" WIDE, IS REQUIRED, WITH REMOVABLE BASE CABINETS.
   HEIGHT TO BE ADJUSTABLE BETWEEN 28" AND 36" AFF TO COUNTERTOP.
2. ONE LOWERABLE SINK SURFACE, 30" WIDE, IS REQUIRED, WITH REMOVABLE BASE CABINETS.
   HEIGHT TO BE ADJUSTABLE BETWEEN 28" AND 36" AFF TO COUNTERTOP.
3. OVENS ARE ASSUMED TO BE SELF-CLEANING TYPE.
   IF OTHERWISE, PROVIDE A MINIMUM 30" ADJUSTABLE COUNTER SPACE WITH REMOVABLE BASE CABINETS NEXT TO OVEN.
4. A MINIMUM 36" TURNAROUND SPACE UNDER THE COUNTER WITH REMOVABLE BASE CABINETS SHALL BE PROVIDED IN DEEP CLOSED ENDED GALLEY KITCHENS AND OTHER U-SHAPED KITCHENS WHERE THE CLEARANCE BETWEEN CABINETS IS LESS THAN 5'-0".
   THE MINIMUM CLEARANCE BETWEEN CABINETS SHALL BE 40".
5. 48" A.F.F. WHEN CONVERTED TO ACCESSIBLE KITCHEN.
   PROVIDE REQUIRED WALL REINFORCEMENT FOR POSSIBLE FUTURE RELOCATION.



BATHROOM PLAN W/ 24" REMOVABLE VANITY CABINET "B2b"

*CHOOSE WATER CLOSET THAT WILL NOT EXTEND INTO THE SPACE REQUIRED FROM THE DOOR OPENING

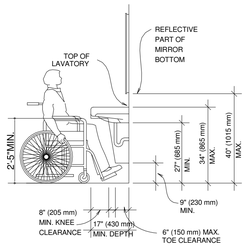
*GRAB BAR REINFORCEMENT WILL CONSIST OF 20 GA. MTL. PLATES SECURED TO STUDS.

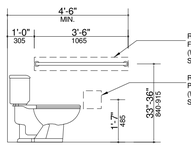


BATHROOM PLAN W/24" REMOVABLE VANITY CABINET

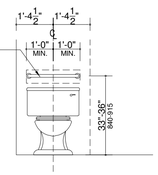
*CHOOSE WATER CLOSET THAT WILL NOT EXTEND INTO THE SPACE REQUIRED FROM THE DOOR OPENING

**GRAB BAR REINFORCEMENT WILL CONSIST OF 20 GA. MTL. PLATES SECURED TO STUDS.

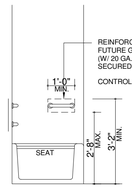




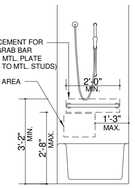
SIDE WALL



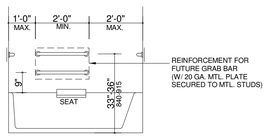
BACK WALL



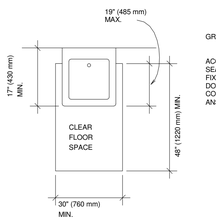
HEAD



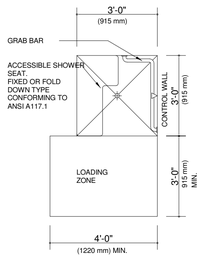
FOOT



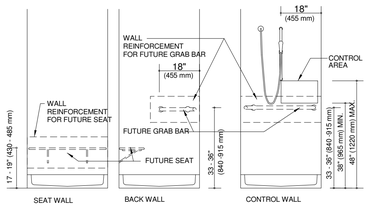
BACK



OPTIONAL ACCESSIBLE LAVATORY



PLAN OF TRANSFER TYPE SHOWER STALL (ACCESSIBLE CONFIGURATION)



ADAPTABLE SHOWER STALL ELEVATIONS

GENERAL NOTES:

ACCESSIBLE ROUTE:
A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ALL ACCESSIBLE SPACES AND ROOMS IN A BUILDING THAT CAN BE NEGOTIATED BY ALL CATEGORIES OF PEOPLE HAVING PHYSICAL DISABILITIES.

PORTIONS OF ACCESSIBLE ROUTES WITH SLOPES OF MORE THAN 1:20 ARE RAMPS AND SHALL COMPLY WITH REQUIREMENTS FOR RAMPS.

AN INTERIOR ACCESSIBLE ROUTE SHALL BE PROVIDED FROM THE ENTRANCE OF THE BUILDING TO ALL DWELLING UNITS IN THE BUILDING. ALL DWELLING UNITS ARE TO BE ADAPTABLE.

ADAPTABLE DWELLING UNITS:
DWELLING UNITS WHICH ARE CONSTRUCTED ON AN ACCESSIBLE ROUTE AND EQUIPPED AS SET FORTH IN REFERENCE STANDARD RS 4-6 OF THE NYC BUILDING CODE SO THAT THEY CAN BE CONVERTED TO BE USED, WITH A MINIMUM OF STRUCTURAL CHANGE, BY ALL CATEGORIES OF PERSONS HAVING PHYSICAL DISABILITIES.

ADAPTABLE DWELLING UNITS SHALL BE EQUIPPED WITH DOOR WIDTHS AND CLEAR FLOOR SPACES FOR POSSIBLE OCCUPANTS WITH PHYSICAL DISABILITIES.
ADAPTABLE SPACES WITHIN DWELLING UNITS SHALL INCLUDE KITCHENS AND BATHROOMS AND THEIR RESPECTIVE DOORWAYS.

THE INFORMATION SHOWN ON THIS DRAWING IS FOR GUIDANCE PURPOSES ONLY AND OUTLINE THE MOST COMMON ACCESSIBILITY CRITERIA APPLICABLE TO THIS JOB. THEY DO NOT CONSTITUTE A COMPREHENSIVE DESCRIPTION OF ALL POSSIBLE CRITERIA WHICH ARE GIVEN IN RS 4-6 OF THE NYC BLDG. CODE AND ANSI A1117.1 - 1986 AS MODIFIED BY RS 4-6.
THE GENERAL CONTRACTOR MUST DO ALL WORK IN ACCORDANCE WITH THESE REGULATIONS.

Revision No.	Date	Remarks

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
HANDICAP NOTES II

DWG #
A-006.00

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Date:	06/24/13
Scale:	3/8" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

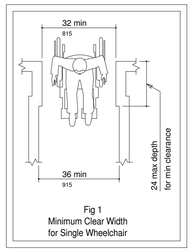


Fig 1
Minimum Clear Width
for Single Wheelchair

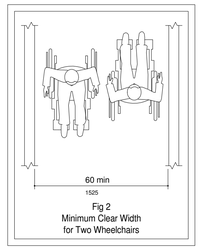


Fig 2
Minimum Clear Width
for Two Wheelchairs

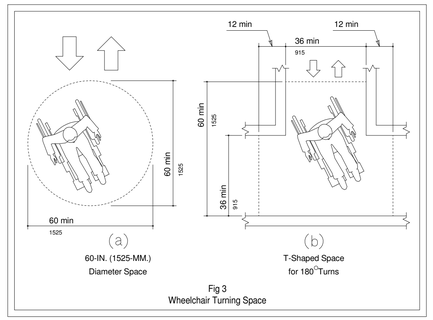


Fig 3
Wheelchair Turning Space

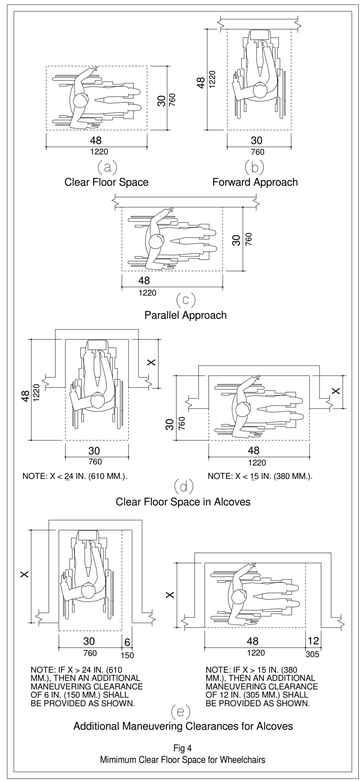


Fig 4
Mimimum Clear Floor Space for Wheelchairs

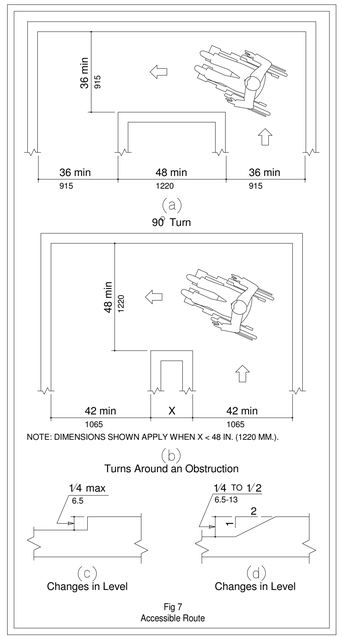


Fig 7
Accessible Route

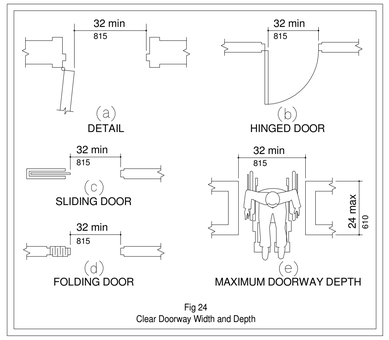


Fig 24
Clear Doorway Width and Depth

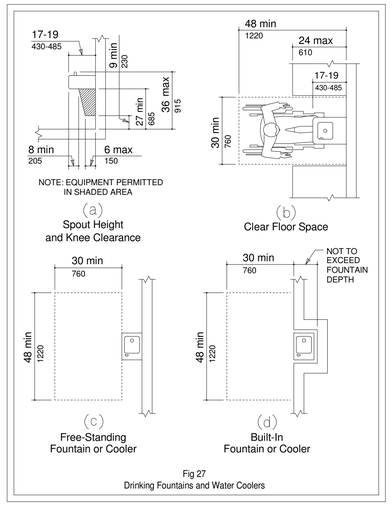
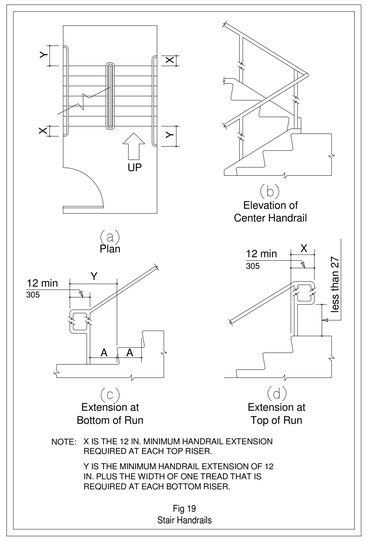


Fig 27
Drinking Fountains and Water Coolers



NOTE: X IS THE 12 IN. MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER.

Y IS THE MINIMUM HANDRAIL EXTENSION OF 12 IN. PLUS THE WIDTH OF ONE TREAD THAT IS REQUIRED AT EACH BOTTOM RISER.

Fig 19
Stair Handrails

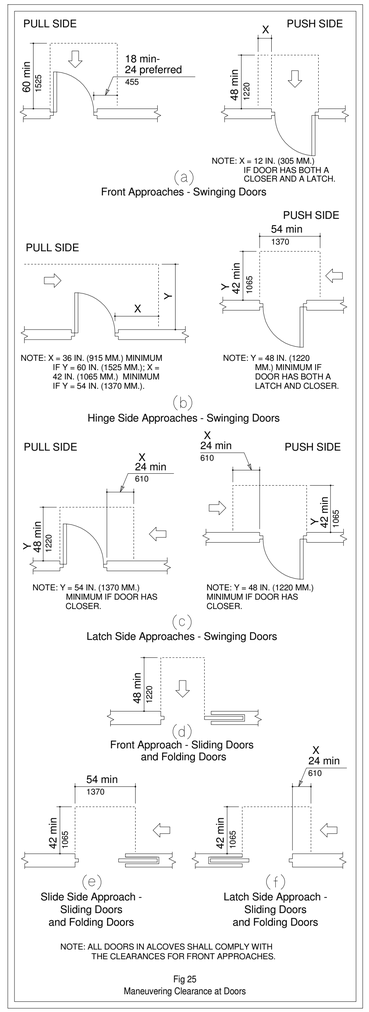


Fig 25
Maneuvering Clearance at Doors

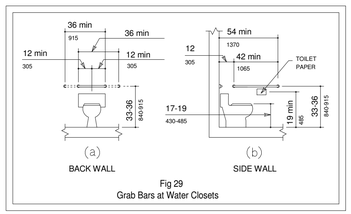


Fig 29
Grab Bars at Water Closets

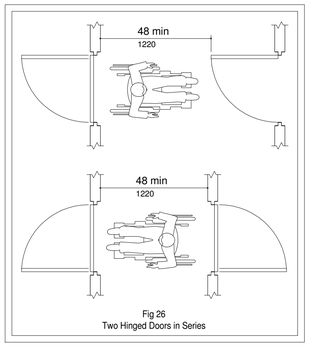


Fig 26
Two Hinged Doors in Series

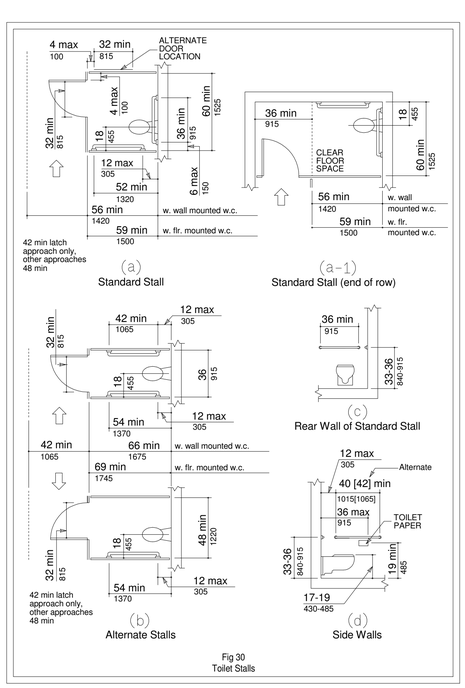


Fig 30
Toilet Stalls

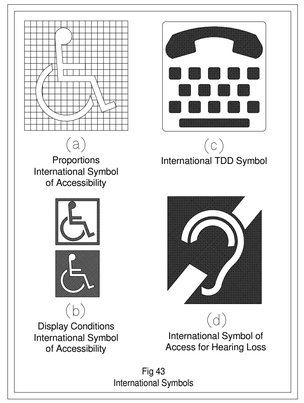


Fig 43
International Symbols

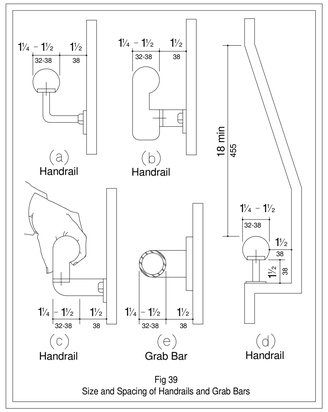


Fig 39
Size and Spacing of Handrails and Grab Bars

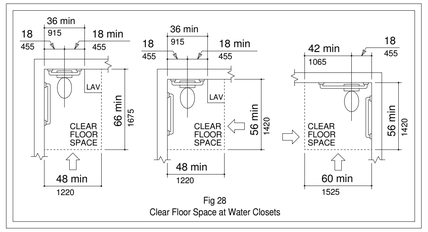


Fig 28
Clear Floor Space at Water Closets

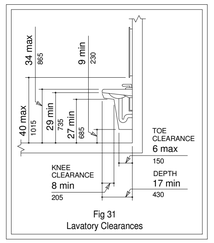


Fig 31
Lavatory Clearances

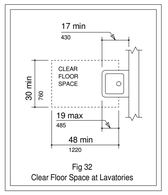


Fig 32
Clear Floor Space at Lavatories

Revision No.	Date	Remarks

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
HANDICAP NOTES III

DWG #
A-007.00

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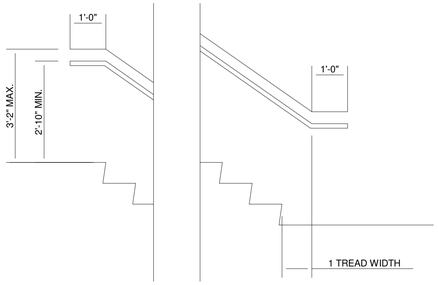
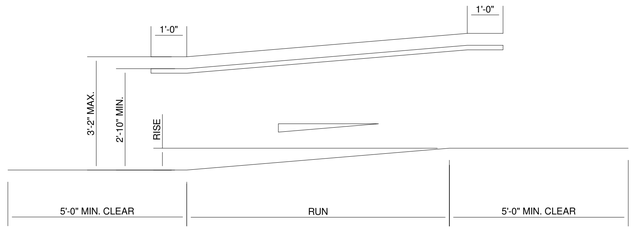
Date: 06/24/13
Scale: 3/8" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

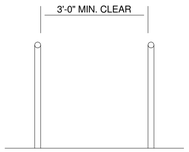


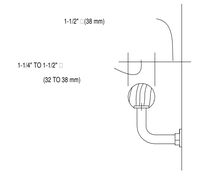
HANDRAIL REQUIREMENTS
FOR STAIRS



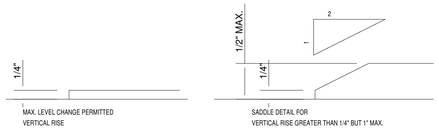
SLOPE	MAXIMUM RISE	MAXIMUM RUN
1:12 TO 1:15	30 INCHES	30 FEET
1:16 TO 1:19	30 INCHES	40 FEET
1:20	30 INCHES	50 FEET

RAMP REQUIREMENTS





HANDRAIL REQUIREMENTS
(WALL MOUNTED)



FLOOR SADDLES OR
HEIGHT CHANGES

NOTES:

4.9.5 Outdoor Conditions. Outdoor stairs and approaches to them shall be designed so that mater will not accumulate on walking surfaces.

4.10 Elevators

4.10.1 New Elevators

4.1 0.1.1 General. Accessible Passenger elevators shall comply with 4. 1 0 and' ASME/ANSI AI 7. 1. Freight elevators shall not be considered as meeting the requirements of this section unless the only elevators provided are used as combination passenger and freight elevators.

4.10.1.2 Automatic Operations. Elevator operation shall be automatic. Each car shall be equipped with a self-leveling feature that will automatically bring the car to floor landings within a tolerance of 1/2 in (13 mm) under rated loading to zero loading conditions. This self-leveling feature shall be automatic and independent of the operable part and shall correct for overtravel or undertravel.

4.10-1.3 Call Buttons. Call buttons in elevator lobbies and halls shall be centered at 42 in (1065 mm) above the floor. See Fig. B4.10.1. Such call buttons shall have visual signals to indicate when each call is registered and when each call is answered. Call buttons shall be 3/4 in (1 9 mm) minimum in the smallest dimension. The button that designates the up direction shall be located above the button that designates the 1 down direction. Objects located beneath hall call buttons shall protrude into the elevator lobby 4 in (100 mm) maximum.

4.10.1.4 Hall Signals. A visible and audible signal shall be provided et each hoistway entrance to indicate which car is answering a call and the direction of travel, except that-in-car signals location of in cars, visible from the floor area adjacent to the hall call buttons, and conforming to the requirements of this subsection, shall be acceptable, Audible signals shall sound once for the up direction and twice for the down direction, or shall have verbal annunciators that state the word "up" or "down. Visible signals shall have the following features:

- Hall signal fixtures shall be centered at@72 in (1830 mm) minimum above the lobby floor. See Fig. B4.10.1.

- The visible signal elements shall@ be 2 1/2 in (63 mm) minimum in the. smallest dimension.

- Signals shall be visible from the floor area adjacent to the hall call button.

CABO/ANSI AI 17.1-1992

4.10.1.5* Tactile Signage on Hoistway Entrances. Raised character and Braille floor designations shall be provided on both jambs of elevator hoistway entrances and shall be centered et 60 in (1.525 mm) above the floor. See Fig. B4.1 0. 1. Such characters shall be 2 in (51 mm) high nominal and shall comply with 4.28.6.

4.10.1.6* Door Protective and Reopening Device. Elevator doors shall open and close automatically. Elevator doors shall be provided with a reopening device that shall stop and reopen a car door and -hoistway door automatically if the door becomes obstructed by an object or person. The device shall be activated by sensing an obstruction passing through the door opening at 5 in and al 29 in'(1 25 mm and 73e mm) above the floor. The device shall not require physical contact to be activated, although contact may occur before the door reverses. Door reopening devices shall remain effective for 20 seconds minimum.

4.10.1.7* Door and Signal Timing for Hall Calls. The minimum acceptable time from notification that a car is answering a call until the doors of that car start to close shall be calculated from one of the following equations:

$$T = \frac{D}{1.5\ ft/S}$$

or

$$T = \frac{D}{455\ mm/s} + 5\ seconds\ minimum$$

where T= total time in seconds and 0 = distance (in feet or millmeters) from the point in the lobby or corridor 60 in (1 525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

For cars with in-car signals, T be ,gins when the Signal is visible, from the point 60 in (1 525 mm) directly in front of the farthest hall call button and the audible signal is sounded.

4.1 0. 1.8 Door Delay for Car Calls. Elevator doors shall remain fully open in response to a car call for 3 seconds minimum.

4.10.1.9* Inside Dimensions of Elevator Cars. The inside dimensions of elevator cars shall provide space for wheelchair users to enter the car, maneuver within reach of controls, and exit from the car. The clearance between the car platform sill and the edge of any hoistway landing shall be 1 1/4 in (32 mm) maximum.

4.10.1.10Floor Surfaces. Floor surfaces in elevator cars shall comply with 4.5.,.

4.10.1.11 Illumination Levels .The level of illumination at the,car controls, platfrom, and car threshold and landing sill shall be 5 footcandles,(53.8 lux) minimum.

4.10.1.12* Car Controls. Elevator control panels Shall have the following features,

4.10.1.12.1. Control buttons shall be 3/4 in (1 9 mm) minimum in their smallest dimension. Control buttons shall be raised, flush, or recessed. control buttons shall be arranged with numbers in ascending order. When two or more Columns of buttons are provided they shall read from left to right. SeeFig. B4.10.1.12(a).

4.10.1,12.2 Designations for control: buttons shall comply with 4.28.2, 4.28.5,and-4;,28, The call button for the main entry floor shall be ,designated by star. Raised and Braille designated for control buttons shall be placed Immediately to the left of the button to which the, designations apply. See. Fig. 84.10.1.12(b). Floor buttons shall be provid6d with visible indicators to show that a call has been registered. The visible indication shall cease when the call has been answered.

4.10.1.12.3 Floor buttons shall be located 54 in (1370 mm) maximum above the floor for parallel approach and 48 in -(l 220 mm) maximum for front approach. Emergency controls, including the emergency alarm, shall be grouped ,at the bottom of the panel. Emergency control buttons shall have their centelines 35 in (890 mm minimum above the floor. See Fig B410.1.12(C).

4.10.1.12.4 Control Is shall be located, on a front wait if cars have center opening doors, and at the side wall or at the front wall next to the door if cars have side opening doors.

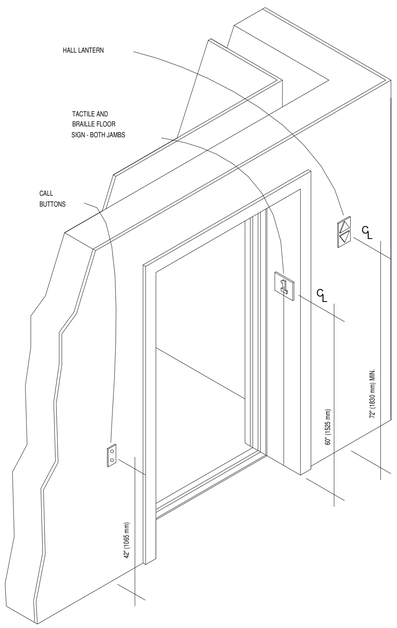
4.10.1.13* Car Position indicators. In elevator cars, both audible and visible car floor location indicators shall be provided.

4.10.1.13.1 Visible. Indicator located above the car control-panel or above the door. Numerals shall be 1/2 in (13mm) minimum. As the car passes or stops at a floor served-by; the elevator, the corresponding character shall illuminate.

4.10.1.1,3.2 Audible. Indicator shall be 20 decibels minimum with a frequency of 1500 Hz maximum above ambient. Indicator shall be either-an audible signal which sounds when the car passes a floor and when a car stops at a floor served by the elevator, or. an automatic verbal, announcement Which announces the floor at which the car has stopped.

4.10.1.14* Emergency Communications. If provided, car emergency signaling devices between the elevator and a point outside the hoistway shall comply With ASME/ANSI A17.1. The highest operable part of a two-way communication system shall be 54 in (1 370, mm) maximum above the floor for parallel approach and 48 in (1220 mm) maximum

above the floor for front approach. If the device is located in a closed compartment, the compartment door hardware shall comply with 4.25. The device shall be identified by raised symbols and lettering complying with 4.28 and located adjacent to the device. If the system uses a handset, the cord from the panel to the handset shall be 29 in (735 mm) long minimum. The car emergency signaling device shall not be limited to voice communication. If instructions for use are provided essential information shall be presented in both tactile and visual form.

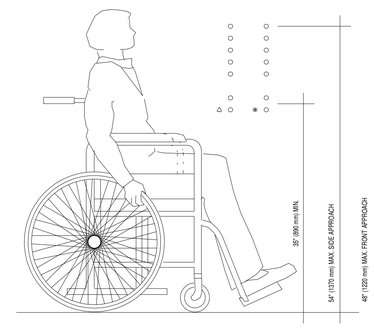


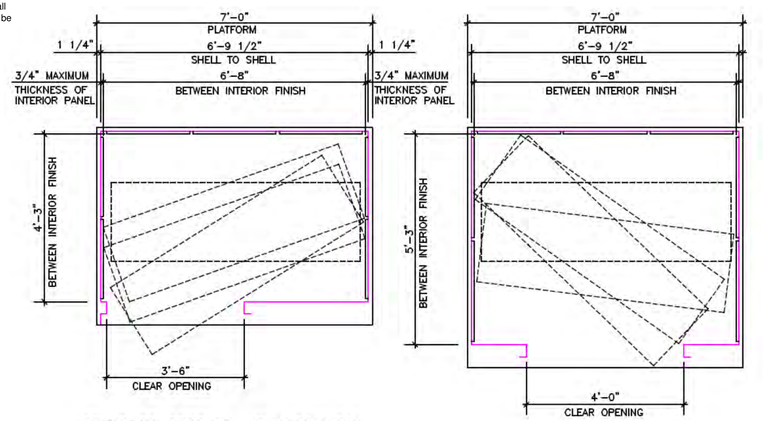
ELEVATOR REQUIREMENTS

Table 407.4.1 Elevator Car Dimensions
Minimum Dimensions

Door Location	Door Clear Width	Inside Car, Side to Side	Inside Car, Back Wall to Front Return	Inside Car, Back Wall to Inside Face of Door
Centered	42 inches (1065 mm)	80 inches (2030 mm)	51 inches (1295 mm)	54 inches (1370 mm)
Side (off-centered)	36 inches (915 mm)[1]	68 inches (1725 mm)	51 inches (1295 mm)	54 inches (1370 mm)
Any	36 inches (915 mm)[1]	54 inches (1370 mm)	80 inches (2030 mm)	80 inches (2030 mm)
Any	36 inches (915 mm)[2]	60 inches (1525 mm)[2]	60 inches (1525 mm)[2]	60 inches (1525 mm)[2]

1. A tolerance of minus 5/8 inch (16 mm) is permitted.
2. Other car configurations that provide a turning space complying with 304 with the door closed shall be permitted.





STANDARD 2500 Lbs. CAPACITY CAR
76" x 24" STRETCHER SHOWN DOTTED
O.K. TO MANEUVER

STANDARD 3500 Lbs. CAPACITY CAR
WITH NON-STANDARD OPENING DOOR
76" x 24" STRETCHER SHOWN DOTTED
O.K. TO MANEUVER

Figure 1
Stretcher-sized elevator cars

Figure 2
Symbol for emergency medical services (Star of Life)

GENERAL NOTES:

ACCESSIBLE ROUTE:
A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ALL ACCESSIBLE SPACES AND ROOMS IN A BUILDING THAT CAN BE NEGOTIATED BY ALL CATEGORIES OF PEOPLE HAVING PHYSICAL DISABILITIES.

PORTIONS OF ACCESSIBLE ROUTES WITH SLOPES OF MORE THAN 1:20 ARE RAMPS AND SHALL COMPLY WITH REQUIREMENTS FOR RAMPS.

AN INTERIOR ACCESSIBLE ROUTE SHALL BE PROVIDED FROM THE ENTRANCE OF THE BUILDING TO ALL DWELLING UNITS IN THE BUILDING. ALL DWELLING UNITS ARE TO BE ADAPTABLE.

ADAPTABLE DWELLING UNITS:
DWELLING UNITS WHICH ARE CONSTRUCTED ON AN ACCESSIBLE ROUTE AND EQUIPPED AS SET FORTH IN REFERENCE STANDARD RS 4-6 OF THE NYC BUILDING CODE
SO THAT THEY CAN BE CONVERTED TO BE USED, WITH A
MINIMUM OF STRUCTURAL CHANGE, BY ALL CATEGORIES OF
PERSONS HAVING PHYSICAL DISABILITIES.

ADAPTABLE DWELLING UNITS SHALL BE EQUIPPED WITH DOOR WIDTHS AND CLEAR FLOOR SPACES FOR POSSIBLE OCCUPANTS WITH PHYSICAL DISABILITIES.
ADAPTABLE SPACES WITHIN DWELLING UNITS SHALL INCLUDE KITCHENS AND BATHROOMS AND THEIR RESPECTIVE DOORWAYS.

THE INFORMATION SHOWN ON THIS DRAWING IS FOR GUIDANCE PURPOSES ONLY
AND OUTLINE THE MOST COMMON ACCESSIBILITY CRITERIA APPLICABLE TO THIS JOB.
THEY DO NOT CONSTITUTE A COMPREHENSIVE DESCRIPTION OF ALL POSSIBLE CRITERIA
WHICH ARE GIVEN IN RS 4-6 OF THE NYC BLDG. CODE AND ANSI A1117.1 - 1986
AS MODIFIED BY RS 4-6.
THE GENERAL CONTRACTOR MUST DO ALL WORK IN ACCORDANCE WITH THESE REGULATIONS.

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

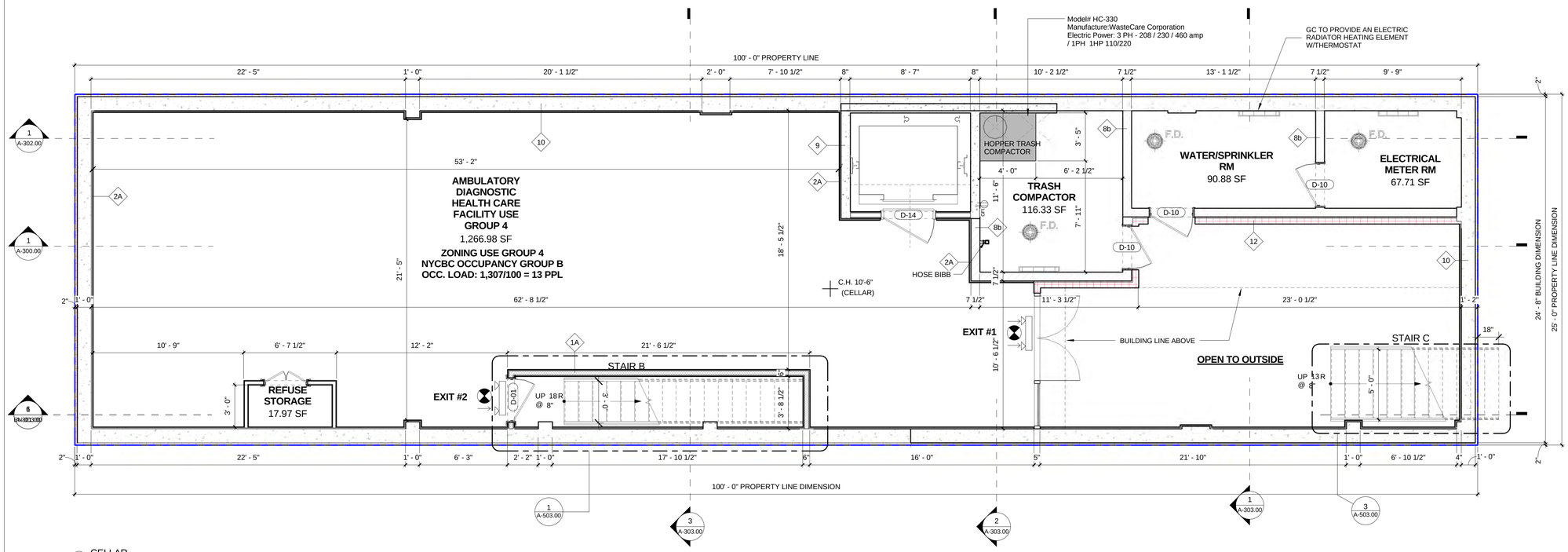
Title:
HANDICAP NOTES IV

DWG #
A-008.00

Signature:

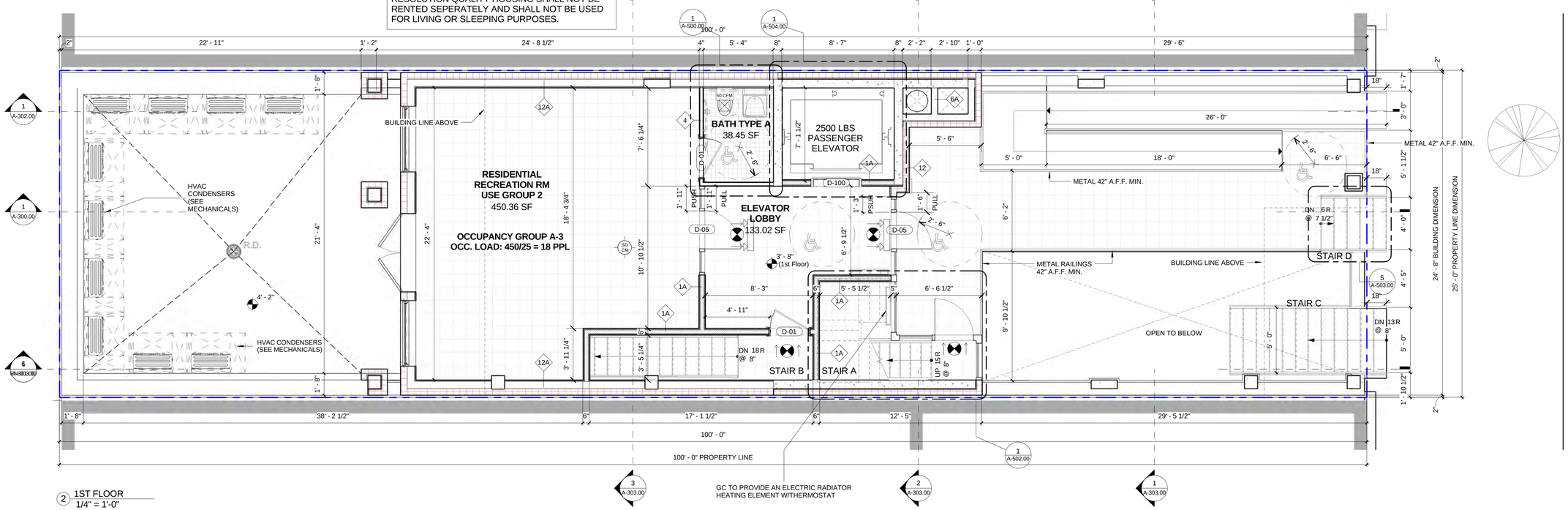
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK

Date: 06/24/13
Scale: 1/2" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker



1 CELLAR
1/4" = 1'-0"

RECREATION ROOM FOR TENANTS AS PER ZONING RESOLUTION QUALITY HOUSING SHALL NOT BE RENTED SEPERATELY AND SHALL NOT BE USED FOR LIVING OR SLEEPING PURPOSES.



2 1ST FLOOR
1/4" = 1'-0"

LEGEND

PLAN	2 HR FIRE PARTITION
CM SD PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
A.D PLAN	AREA DRAIN
H.W.H PLAN	HOT WATER HEATER

Revision No.	Date	Remarks

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
CELLAR/1ST FL. PLAN

DWG #
A-100.00

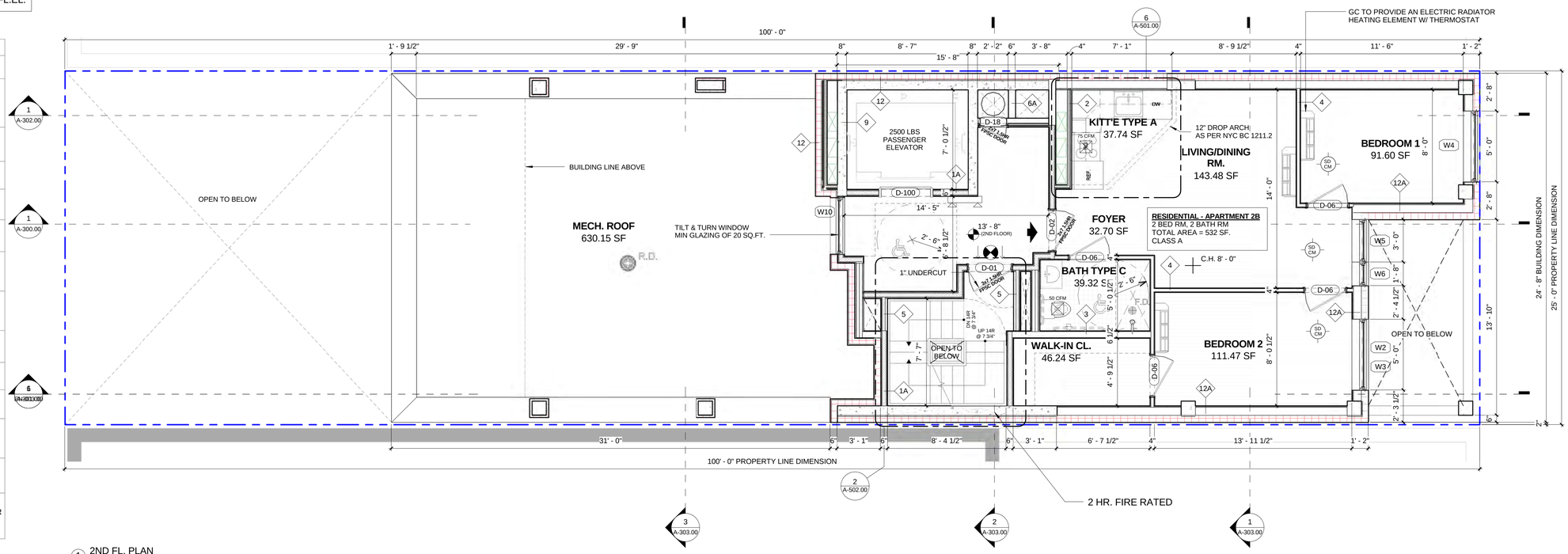
Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK

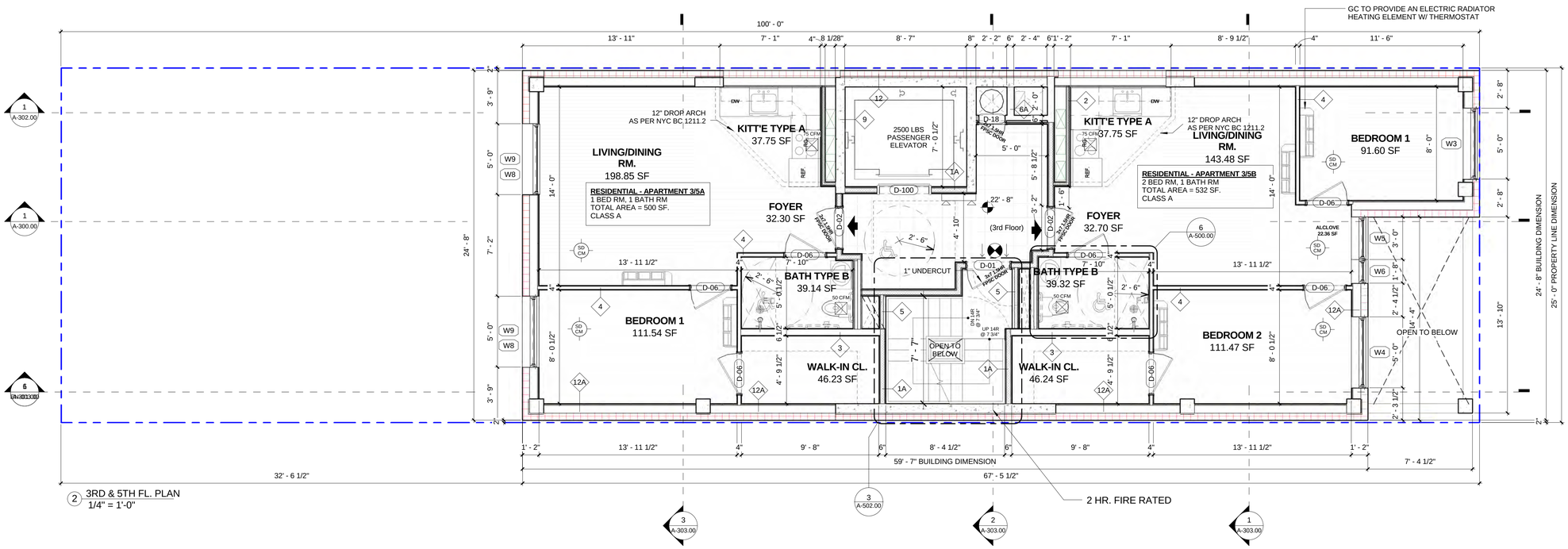
Date:	07/22/02
Scale:	1/4" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

2ND FLOOR 15'-0" F.FL.EL.
3RD FLOOR 24'-0" F.FL.EL.
4TH FLOOR 33'-0" F.FL.EL.
5TH FLOOR 42'-0" F.FL.EL.
6TH FLOOR 51'-0" F.FL.EL.

LEGEND	
PLAN	2 HR FIRE PARTITION
CM SD PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
A.D PLAN	AREA DRAIN
H.W.H PLAN	HOT WATER HEATER



1 2ND FL. PLAN
1/4" = 1'-0"



2 3RD & 5TH FL. PLAN
1/4" = 1'-0"

Revision No.	Date	Remarks

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
2ND & 3RD/5TH FL. PLAN

DWG #
A-101.00

Signature:	Date: 07/22/02
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK	Scale: 1/4" = 1'-0"
	Drawn: Designer
	Job #: 32157
	Checked: Checker

LEGEND	
PLAN	2 HR FIRE PARTITION
CM SD PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
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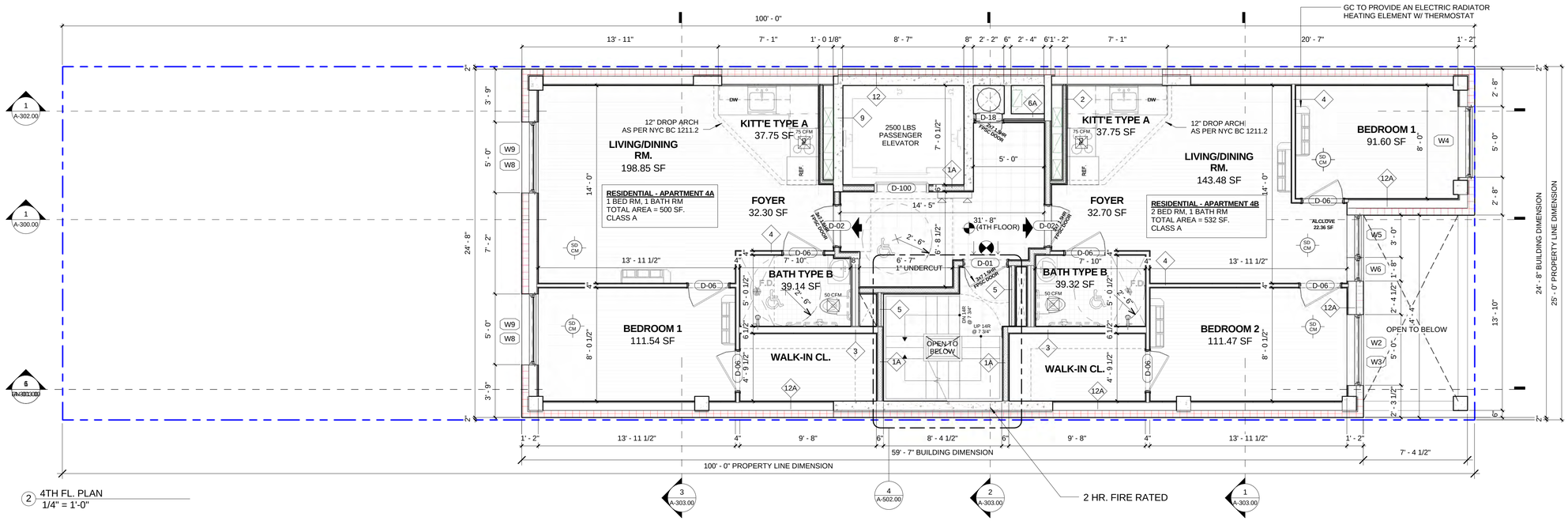
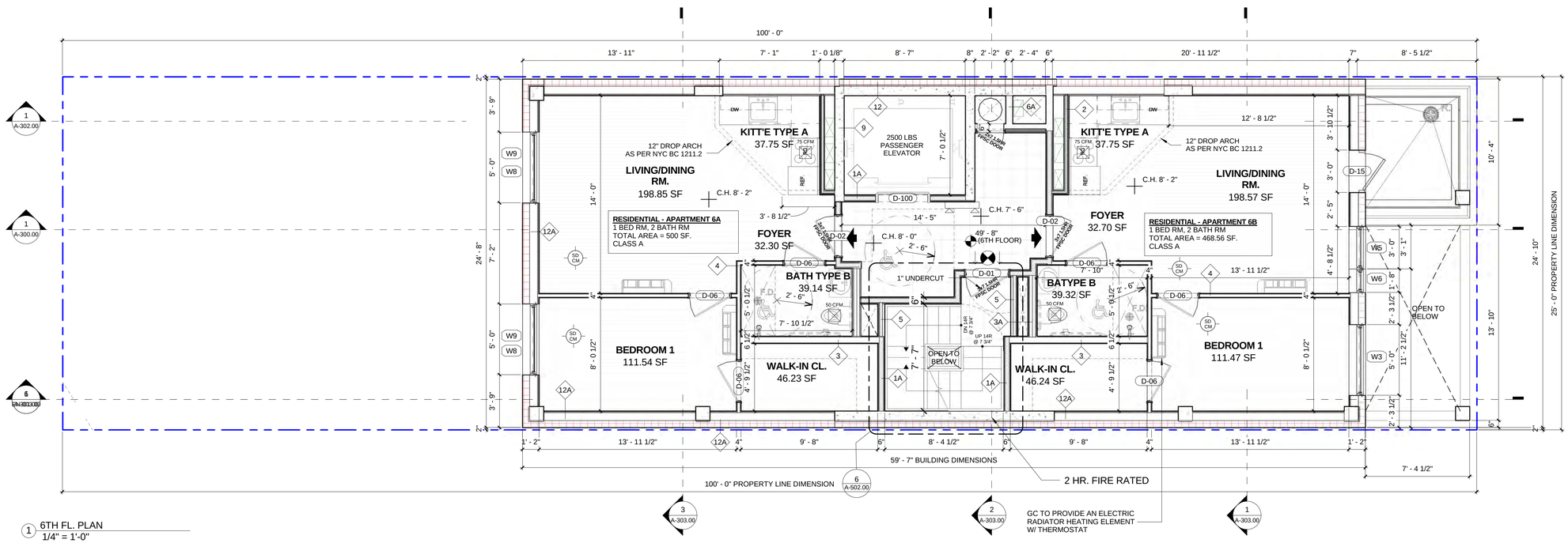
H.W.H PLAN	HOT WATER HEATER



2 4TH FL. PLAN
1/4" = 1'-0"



1 6TH FL. PLAN
1/4" = 1'-0"

Revision No.	Date	Remarks

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
4TH & 6TH FL. PLAN

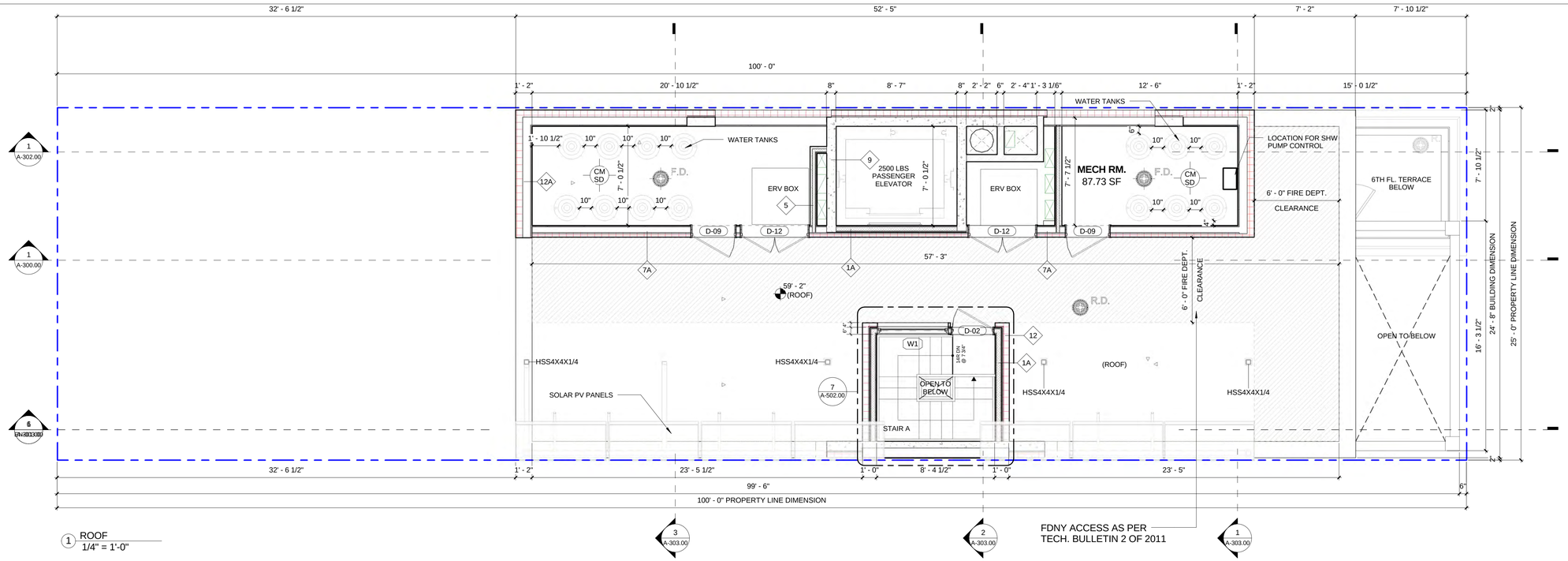
DWG #
A-102.00

Signature:

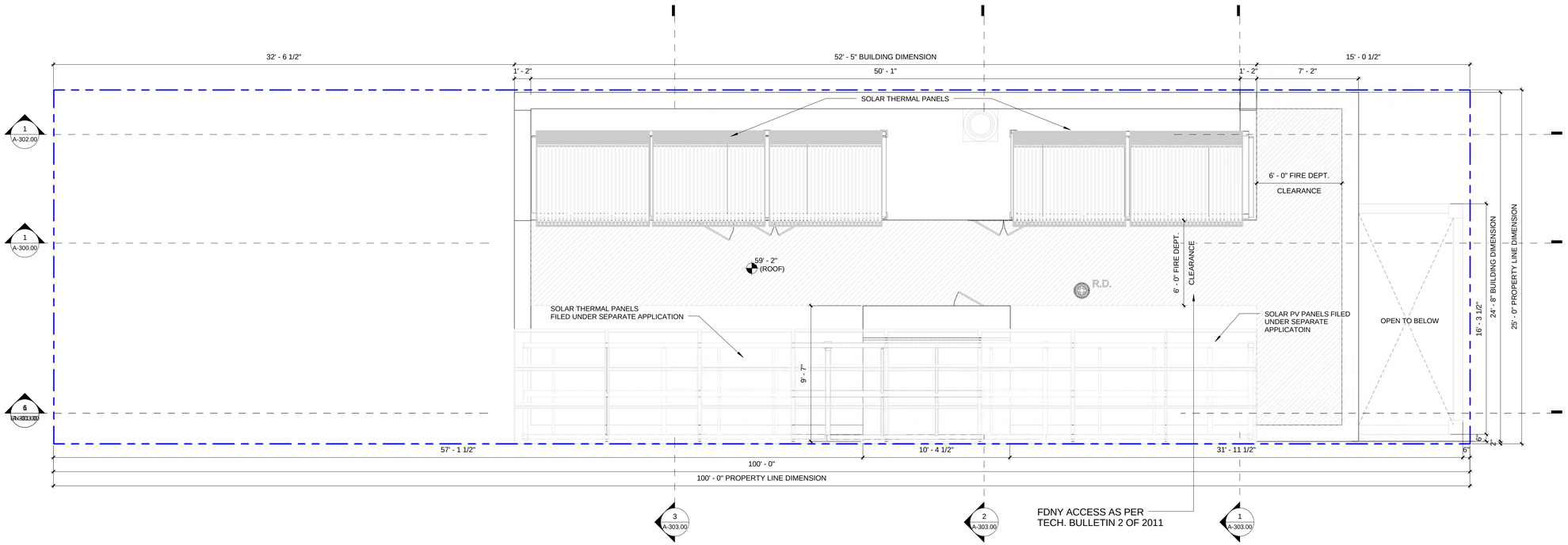
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK

Date:	07/09/13
Scale:	1/4" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

LEGEND	
PLAN	2 HR FIRE PARTITION
CM SD PLAN	SD/CO
PLAN	LOT LINE SPR. HD
PLAN	DOOR #
PLAN	WINDOW #
PLAN	WALL TAG (A-605.00)
75 CFM PLAN	75 CFM BATHROOM EXHAUST FAN
50 CFM PLAN	50 CFM BATHROOM EXHAUST FAN
PLAN	EXIT SIGNS
PLAN	EMERGENCY LIGHTS
F.D PLAN	FLOOR DRAIN
R.D PLAN	ROOF DRAIN
A.D PLAN	AREA DRAIN
H.W.H PLAN	HOT WATER HEATER



1 ROOF
1/4" = 1'-0"



2 BULKHEAD
1/4" = 1'-0"

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

TAMAR KISILEVITZ ARCHITECT, PLLC
110 YORK STREET, PH
BROOKLYN, NY 11201
Phone (718) 222-0322 Fax (718) 222-4486

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ROOF & BULKHEAD

DWG #
A-103.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK

Date:	04/23/13
Scale:	1/4" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

ENERGY CODE NOTES:
- TYP ROOF/CEILING R VALUE TO BE MIN OF R-38.
- TYP WALL R VALUE TO HAVE MIN R-21 CI WHERE MASONRY WALL AND R-15 CI AND R-11 IN BETWEEN THE METAL STUDS.
- TYP WINDOW U-VALUE TO BE MAX OF 0.35
- TYP. SHGC VALUE TO BE MAX 0.40
- TYP. SKYLIGHT U VALUE TO BE MAX 0.60
- TYP. ENTRANCE DOOR U-VALUE TO BE MAX 0.80
- TYP. STOREFRONT U-VALUE TO BE MAX 0.50

1 EAST ELEVATION
3/16" = 1'-0"

ENERGY CODE NOTES:
- TYP ROOF/CEILING R VALUE TO BE MIN OF R-38.
- TYP WALL R VALUE TO HAVE MIN R-21 CI WHERE MASONRY WALL AND R-15 CI AND R-11 IN BETWEEN THE METAL STUDS.
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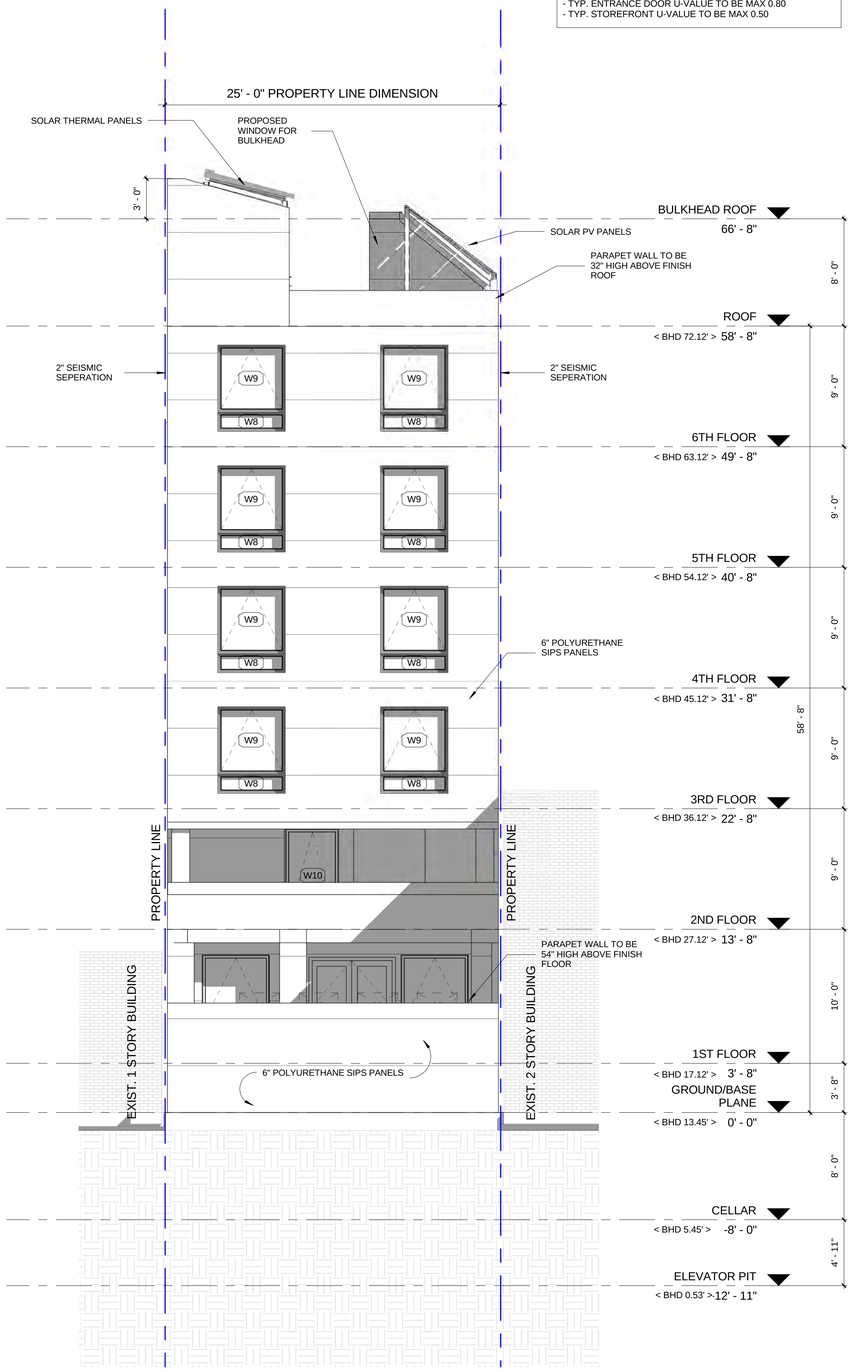
- TYP. SKYLIGHT U VALUE TO BE MAX 0.60
- TYP. ENTRANCE DOOR U-VALUE TO BE MAX 0.80
- TYP. STOREFRONT U-VALUE TO BE MAX 0.50



2 WEST ELEVATION
3/16" = 1'-0"

Revision No.	Date	Remarks

Project Manager/Designer:
Yuriy Menzak/Kliton Shehu
110 York Steet
Brooklyn, NY 11201
PH: (718)222-0322 Ext. 206 Fax: (718)222-4486

Structural Engineer:
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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

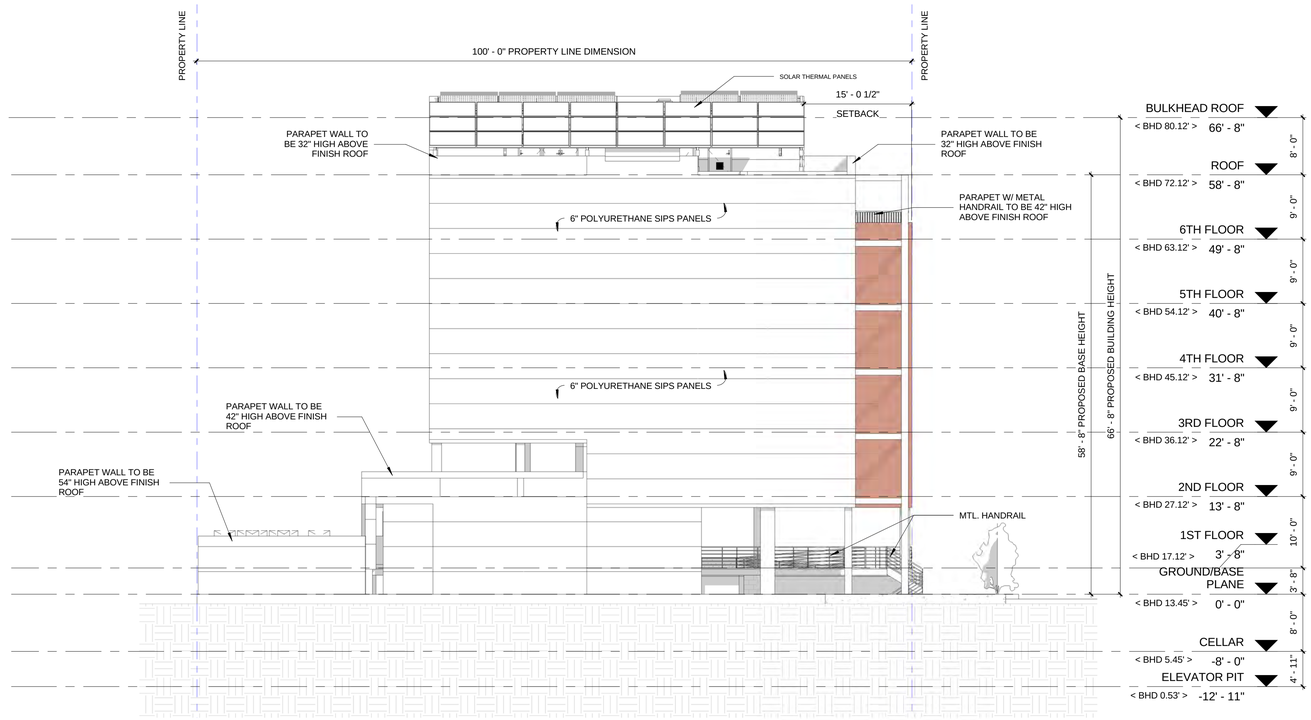
Title:
EAST/WEST ELEVATIONS

DWG #
A-200.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 023917 STATE OF NEW YORK

Date: 07/22/02
Scale: 3/16" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

ENERGY CODE NOTES:
- TYP ROOF/CEILING R VALUE TO BE MIN OF R-38.
- TYP WALL R VALUE TO HAVE MIN R-21 CI WHERE MASONRY WALL AND R-15 CI AND R-11 IN BETWEEN THE METAL STUDS.
- TYP WINDOW U-VALUE TO BE MAX OF 0.35
- TYP. SHGC VALUE TO BE MAX 0.40
- TYP. SKYLIGHT U VALUE TO BE MAX 0.60
- TYP. ENTRANCE DOOR U-VALUE TO BE MAX 0.80
- TYP. STOREFRONT U-VALUE TO BE MAX 0.50



1 SOUTH ELEVATION
1" = 10'-0"

ENERGY CODE NOTES:
- TYP ROOF/CEILING R VALUE TO BE MIN OF R-38.
- TYP WALL R VALUE TO HAVE MIN R-21 CI WHERE MASONRY WALL AND R-15 CI AND R-11 IN BETWEEN THE METAL STUDS.
- TYP WINDOW U-VALUE TO BE MAX OF 0.35
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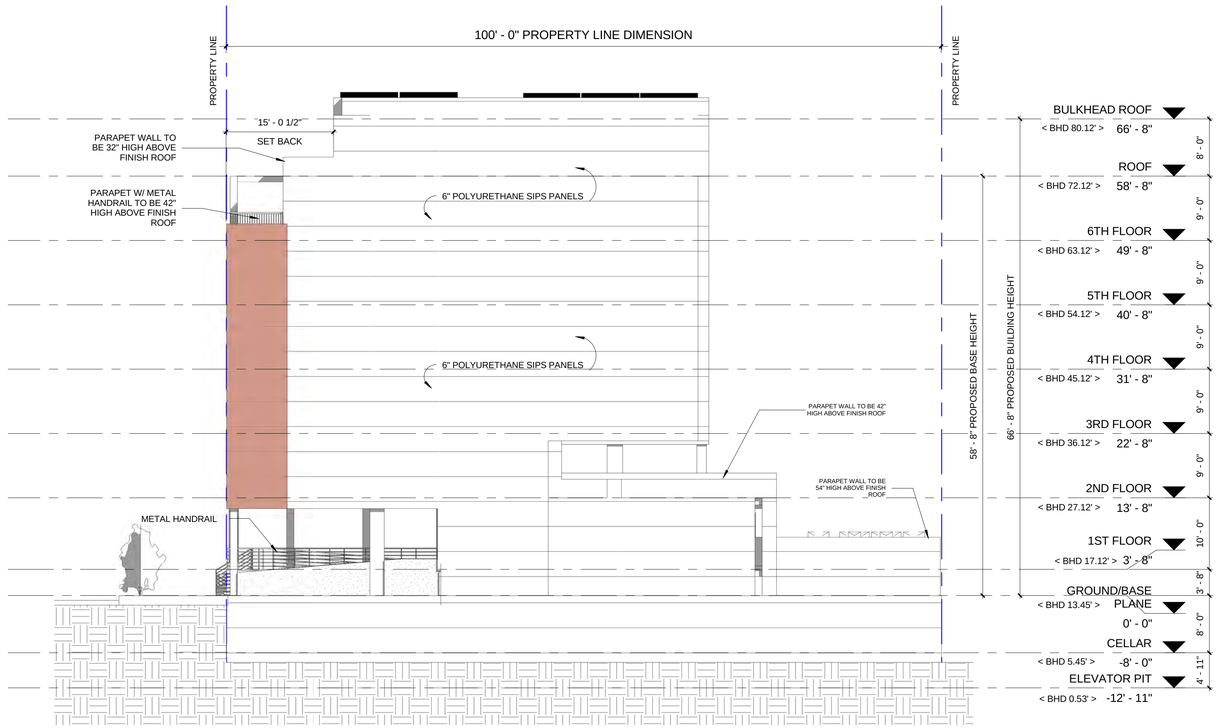
- TYP. SKYLIGHT U VALUE TO BE MAX 0.60
- TYP. ENTRANCE DOOR U-VALUE TO BE MAX 0.80
- TYP. STOREFRONT U-VALUE TO BE MAX 0.50



2 NORTH ELEVATION
1" = 10'-0"

Revision No.	Date	Remarks

Project Manager/Designer:
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Brooklyn, NY 11201
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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
NORTH/SOUTH ELEVATIONS

DWG #
A-201.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK

Date:	07/22/02
Scale:	1" = 10'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

ENERGY CODE NOTES:
- TYP ROOF/CEILING R VALUE TO BE MIN OF R-38.
- TYP WALL R VALUE TO HAVE MIN R-21 CI WHERE MASONRY WALL AND R-15 CI AND R-11 IN BETWEEN THE METAL STUDS.
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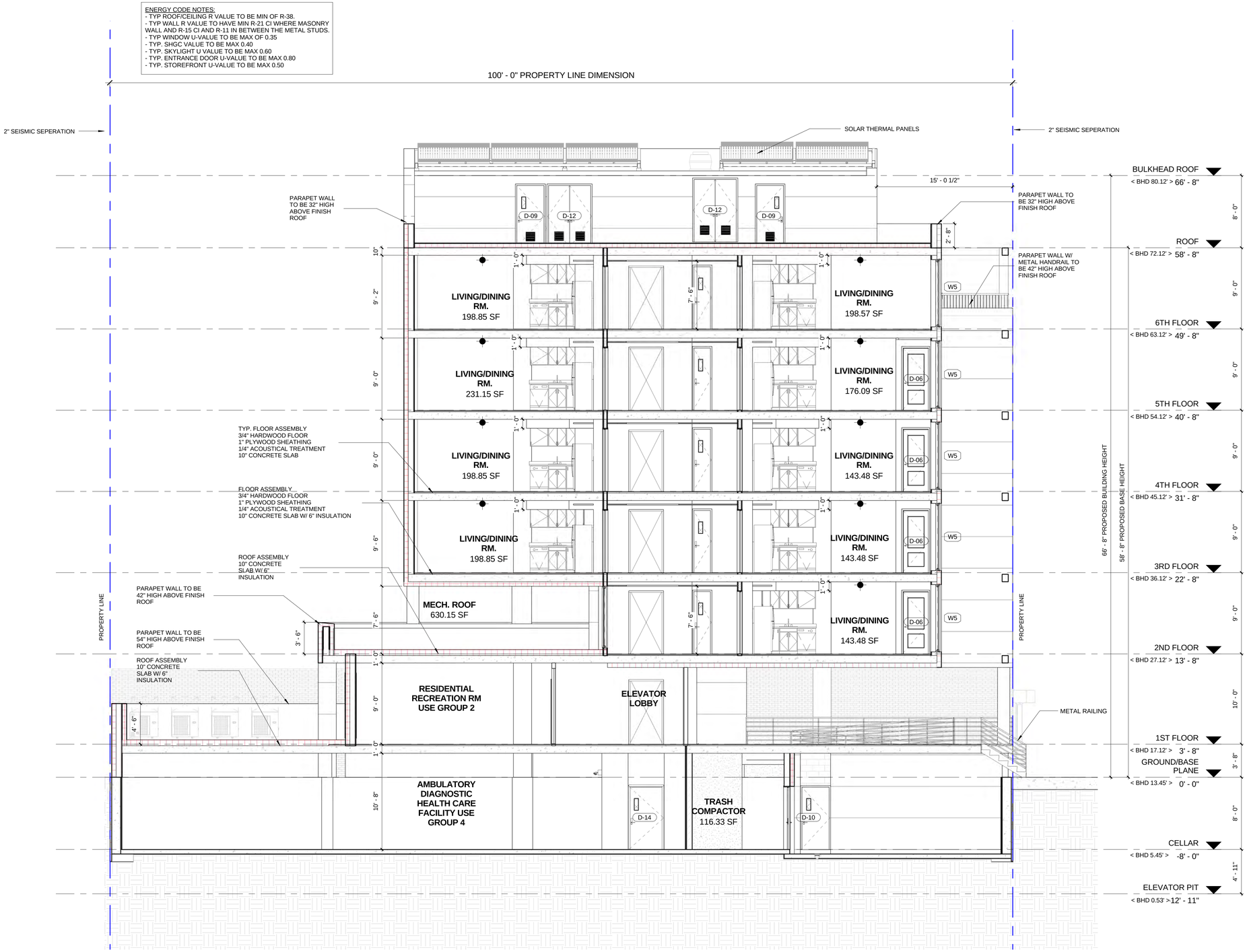
- TYP. STOREFRONT U-VALUE TO BE MAX 0.50



1 Section 1
3/16" = 1'-0"

Revision No.	Date	Remarks

Project Manager/Designer:
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110 York Steet
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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
BUILDING SECTIONS

DWG #
A-300.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 033917 STATE OF NEW YORK

Date:	07/22/02
Scale:	3/16" = 1'-0"
Drawn:	Designer
Job #:	32157
Checked:	Checker

ENERGY CODE NOTES:
- TYP ROOF/CEILING R VALUE TO BE MIN OF R-38.
- TYP WALL R VALUE TO HAVE MIN R-21 CI WHERE MASONRY WALL AND R-15 CI AND R-11 IN BETWEEN THE METAL STUDS.
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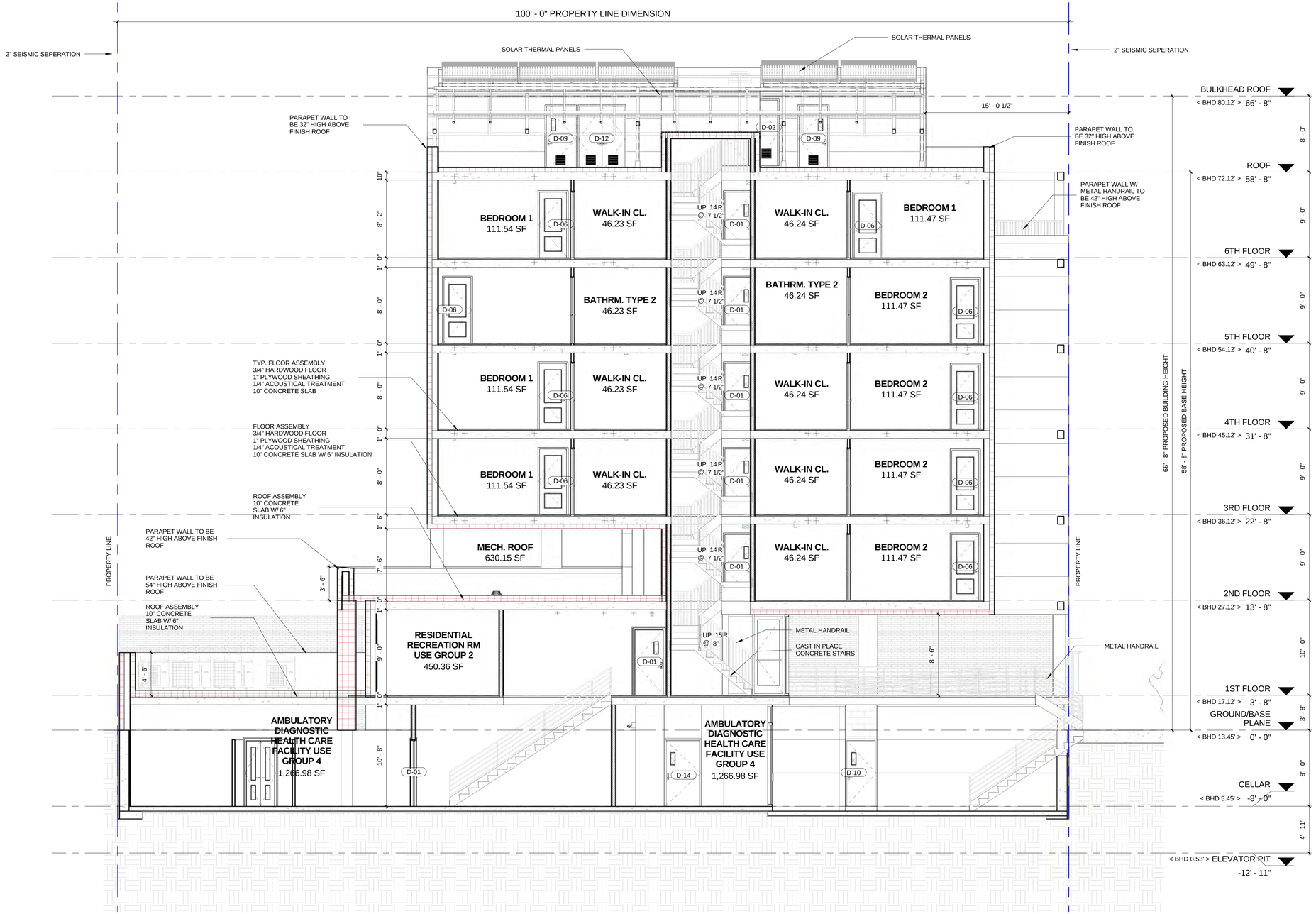
- TYP. SKYLIGHT U VALUE TO BE MAX 0.60
- TYP. ENTRANCE DOOR U-VALUE TO BE MAX 0.80
- TYP. STOREFRONT U-VALUE TO BE MAX 0.50



1 Section 7
3/16" = 1'-0"

Revision No.	Date	Remarks

Project Manager/Designer:
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110 York Steet
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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
BUILDING SECTIONS

DWG #
A-301.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039807 STATE OF NEW YORK

Date: 07/22/02
Scale: 3/16" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

ENERGY CODE NOTES:
- TYP ROOF/CEILING R VALUE TO BE MIN OF R-38.
- TYP WALL R VALUE TO HAVE MIN R-21 CI WHERE MASONRY WALL AND R-15 CI AND R-11 IN BETWEEN THE METAL STUDS.
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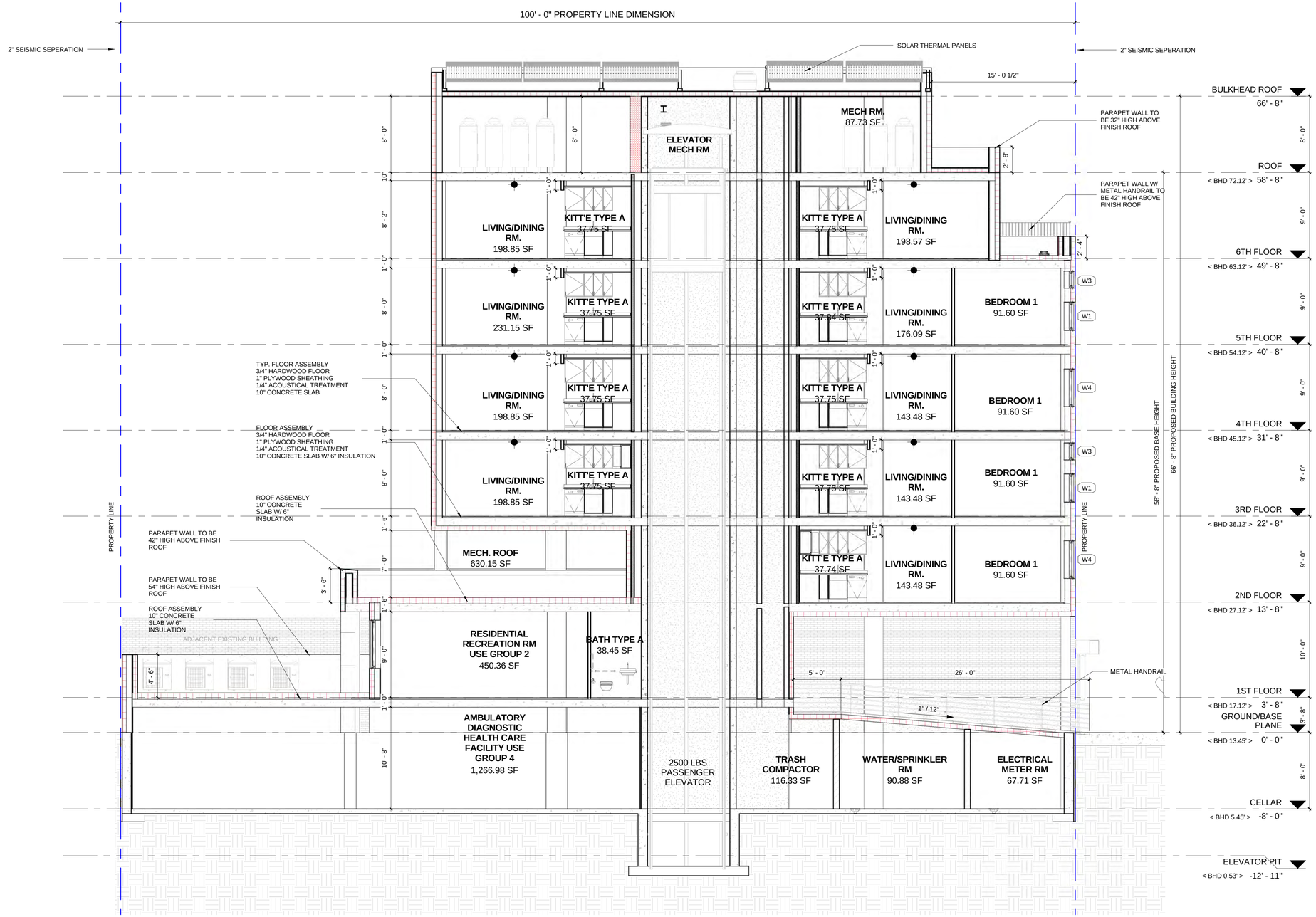
- TYP. SHGC VALUE TO BE MAX 0.40
- TYP. SKYLIGHT U VALUE TO BE MAX 0.60
- TYP. ENTRANCE DOOR U-VALUE TO BE MAX 0.80
- TYP. STOREFRONT U-VALUE TO BE MAX 0.50



1 Section 5
3/16" = 1'-0"

Revision No.	Date	Remarks

Project Manager/Designer:
Yuriy Menzak/Kliton Shehu
110 York Steet
Brooklyn, NY 11201
PH: (718)222-0322 Ext. 206 Fax: (718)222-4486

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139 Fulton street, Suite 214
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George Skandalakis
200 Park Avenue South Suite 916
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PH: (212)253-7303 Fax: (212)253-6512

Civil Engineer:
Joe Denora
1945 McDonals Ave.
Brooklyn, NY 11223
PH: (718)382-0747 Fax: (718)382-0133

DOB APPLICATION NO.
320593041

TAMAR KISILEVITZ ARCHITECT, PLLC
110 YORK STREET, PH
BROOKLYN, NY 11201
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
BUILDING SECTIONS

DWG #
A-302.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039857 STATE OF NEW YORK

Date:	07/08/13
Scale:	3/16" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

ENERGY CODE NOTES:
- TYP ROOF/CEILING R VALUE TO BE MIN OF R-38.
- TYP WALL R VALUE TO HAVE MIN R-21 CI WHERE MASONRY WALL AND R-15 CI AND R-11 IN BETWEEN THE METAL STUDS.
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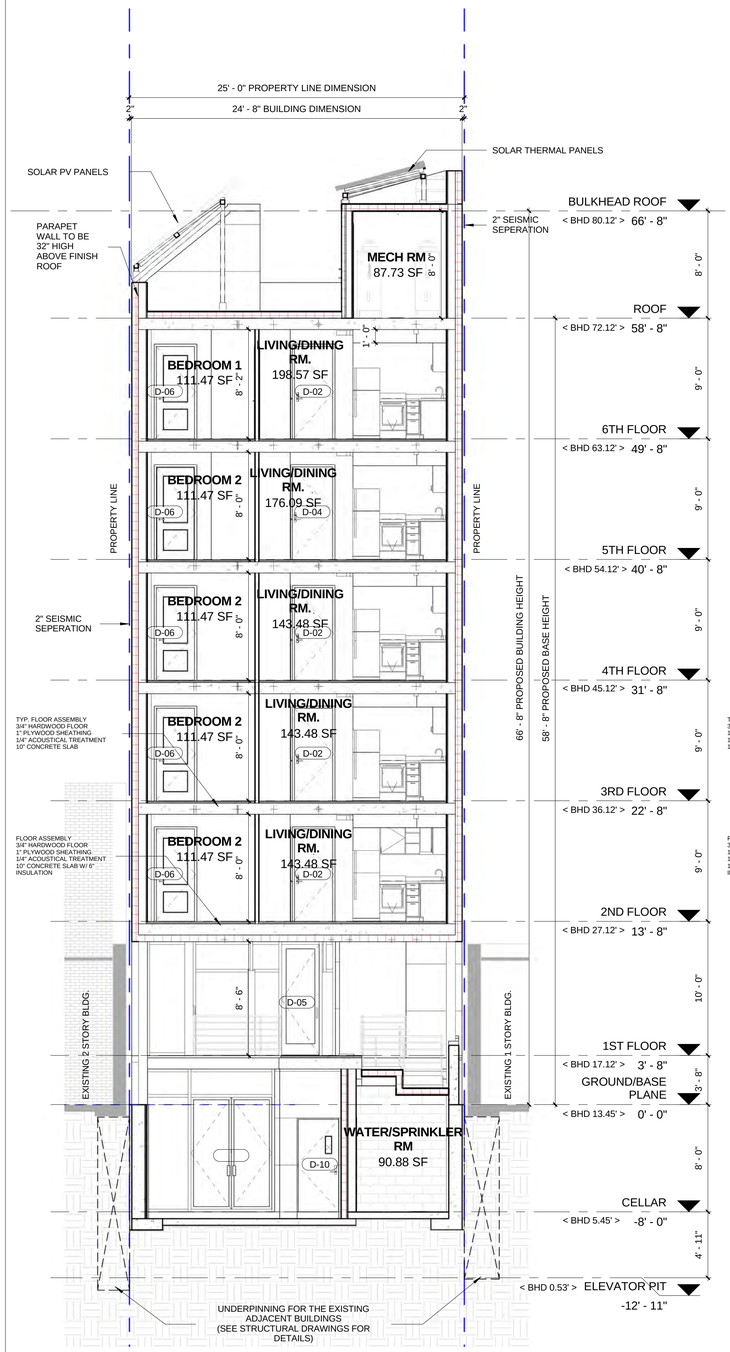
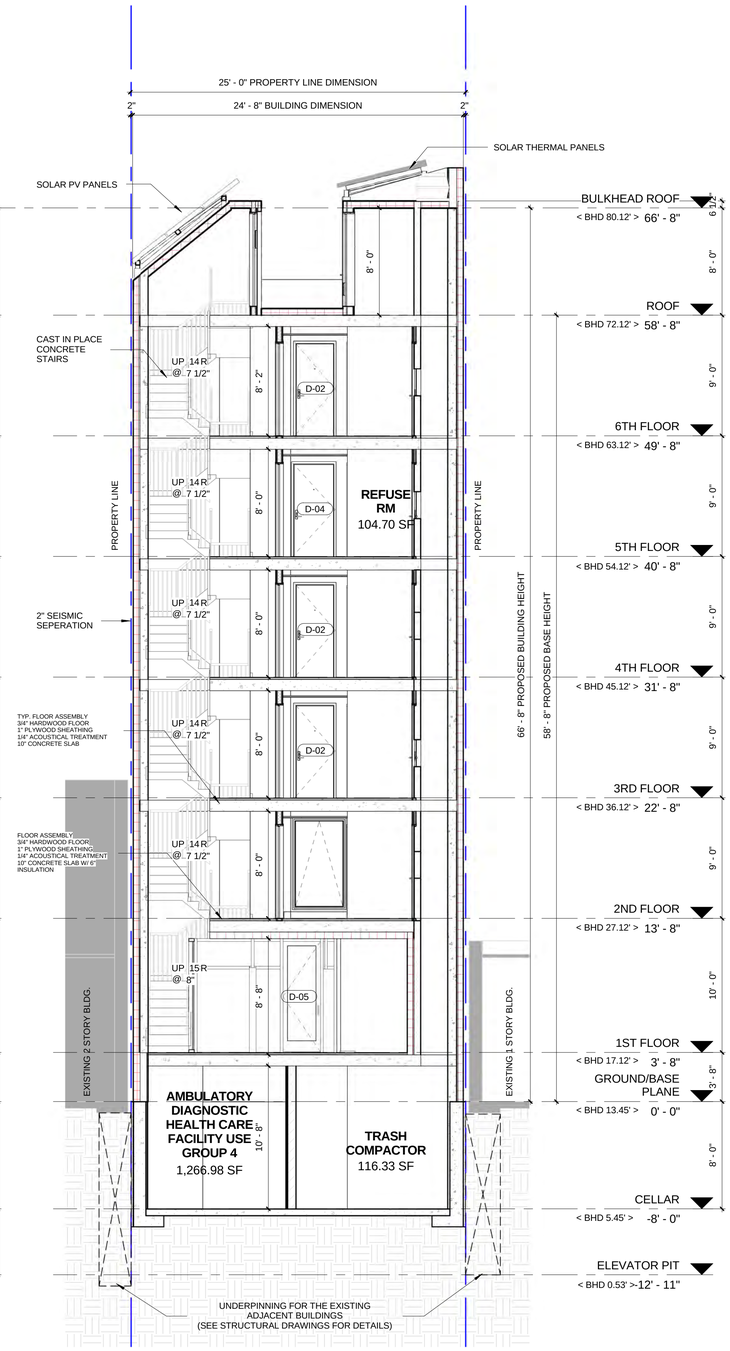
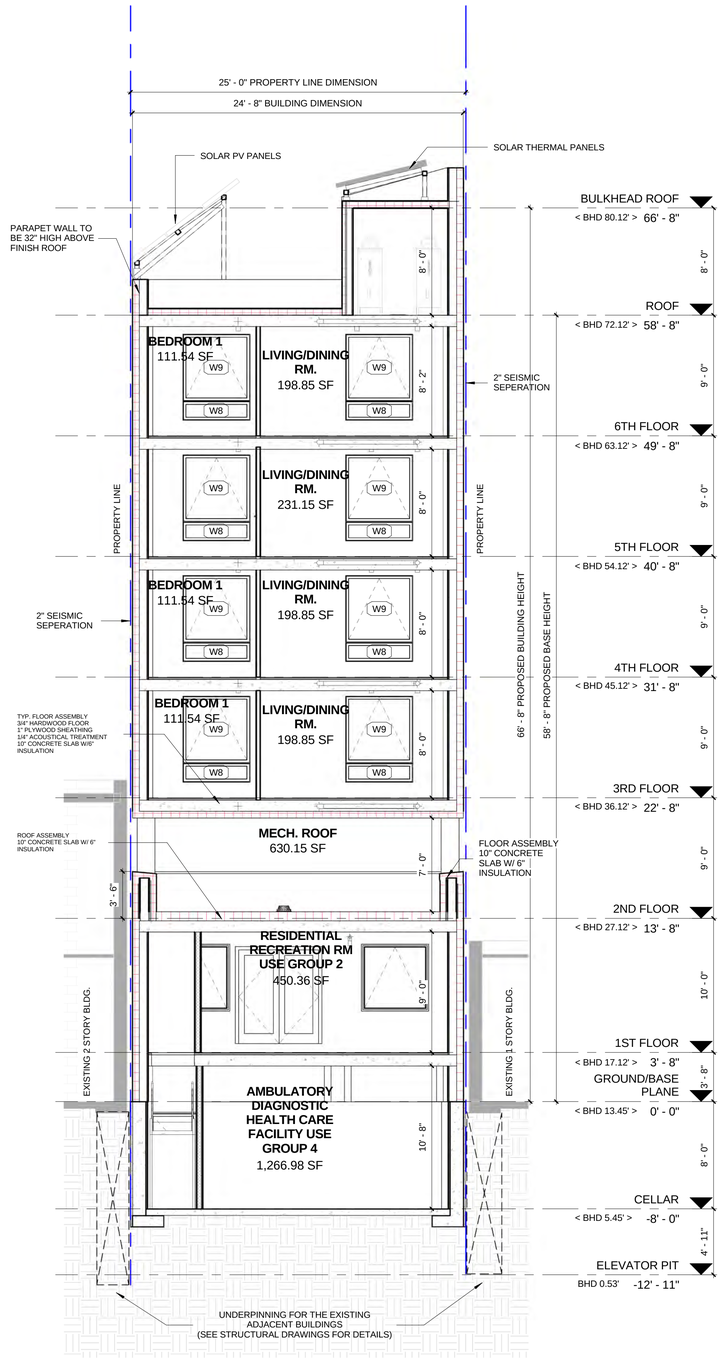
- TYP. SKYLIGHT U VALUE TO BE MAX 0.60
- TYP. ENTRANCE DOOR U-VALUE TO BE MAX 0.80
- TYP. STOREFRONT U-VALUE TO BE MAX 0.50



1 Section 2
3/16" = 1'-0"



2 Section 3
3/16" = 1'-0"



3 Section 4
3/16" = 1'-0"

Revision No.	Date	Remarks

Project Manager/Designer:
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110 York Steet
Brooklyn, NY 11201
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DOB APPLICATION NO.
320593041

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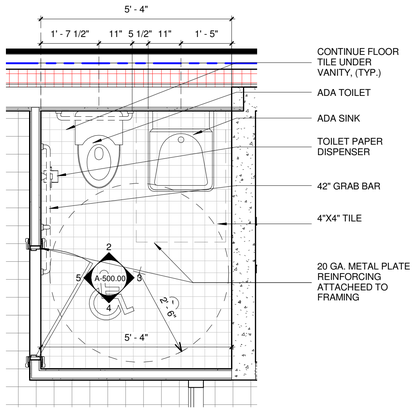
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
BUILDING SECTIONS

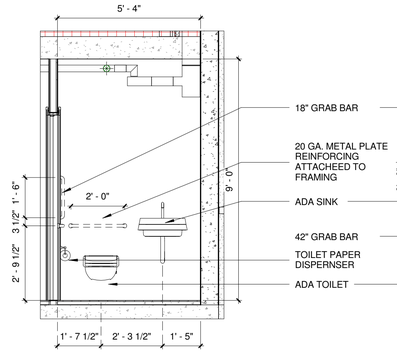
DWG #
A-303.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039107 STATE OF NEW YORK

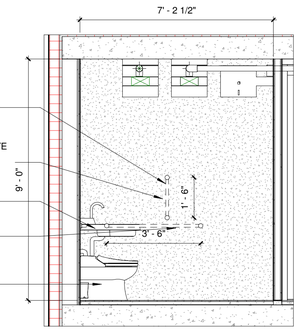
Date:	07/22/02
Scale:	3/16" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker



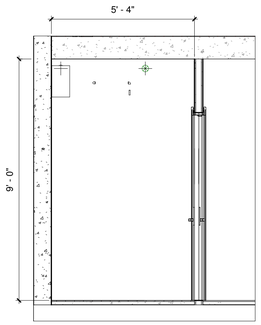
1 BATH TYPE A- ADA PLAN-EAST
1/2" = 1'-0"



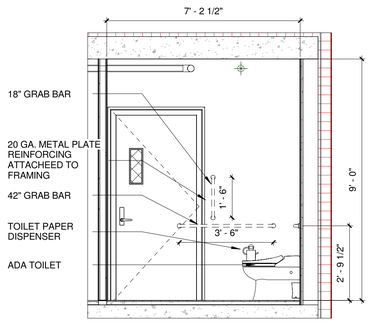
2 BATH TYPE A- ADA ELEVATION-NORTH
3/8" = 1'-0"



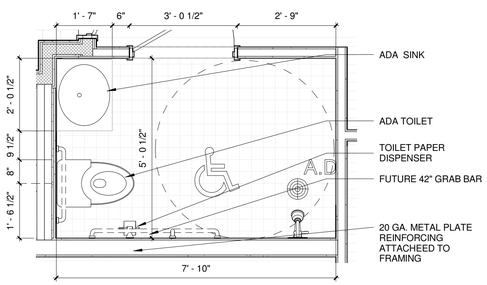
3 BATH TYPE A- ADA ELEVATION-EAST
3/8" = 1'-0"



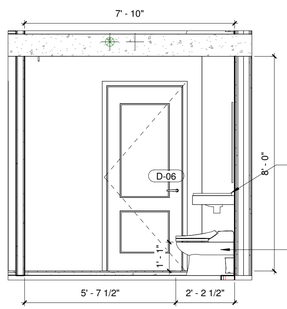
4 BATH TYPE A- ADA ELEVATION-SOUTH
3/8" = 1'-0"



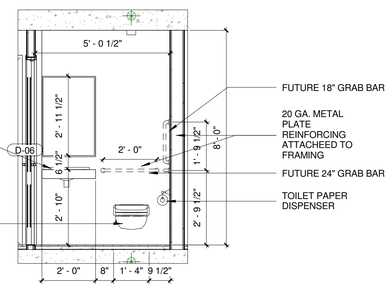
5 BATH TYPE A- ADA ELEVATION-WEST
3/8" = 1'-0"



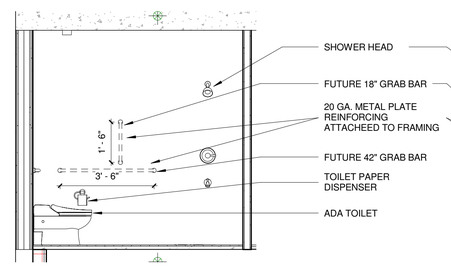
6 BATH TYPE B - ADA Bathroom Plan
1/2" = 1'-0"



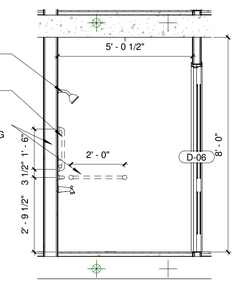
7 BATH TYPE B- ADA ELEVATION-NORTH
3/8" = 1'-0"



8 BATH TYPE B- ADA ELEVATION-EAST
3/8" = 1'-0"



9 BATH TYPE B- ADA ELEVATION-SOUTH
3/8" = 1'-0"



10 BATH TYPE B- ADA ELEVATION-WEST
3/8" = 1'-0"

Revision No.	Date	Remarks

Project Manager/Designer:
Yuriy Menzak/Kliton Shehu
110 York Steet
Brooklyn, NY 11201
PH: (718)222-0322 Ext. 206 Fax: (718)222-4486

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

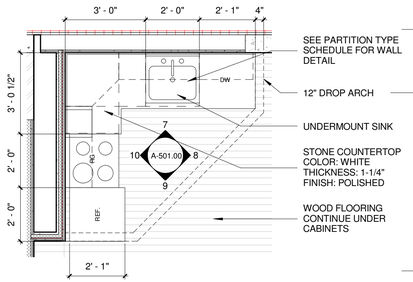
Title:
INTERIOR ELEVATIONS
(BATHROOM)

DWG.#
A-500.00

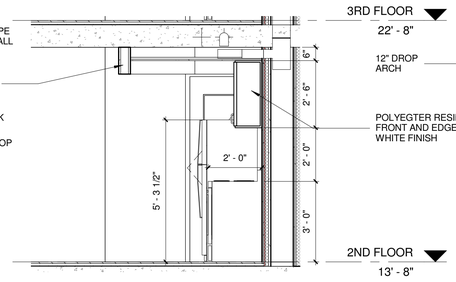
Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 023917 STATE OF NEW YORK

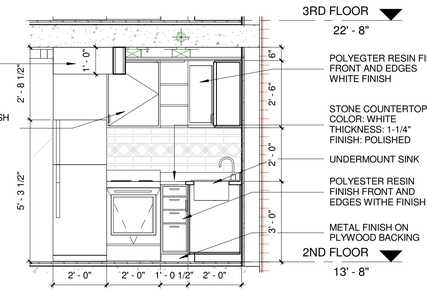
Date:	07/22/02
Scale:	As indicated
Drawn:	Designer
Job #	32157
Checked:	Checker



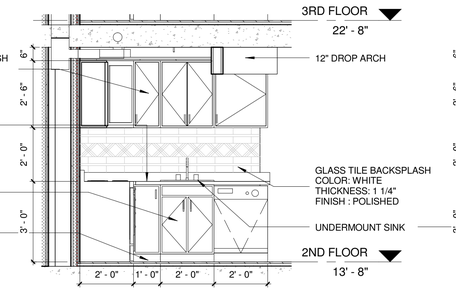
6 Kitchen Type A
3/8" = 1'-0"



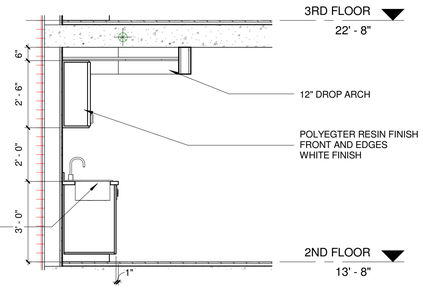
9 Kitchen Type A Elevation - South
3/8" = 1'-0"



10 Kitchen Type A Elevation - West
3/8" = 1'-0"



7 Kitchen Type A Elevation - North
3/8" = 1'-0"



8 Kitchen Type A Elevation - East
3/8" = 1'-0"

Revision No.	Date	Remarks

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320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

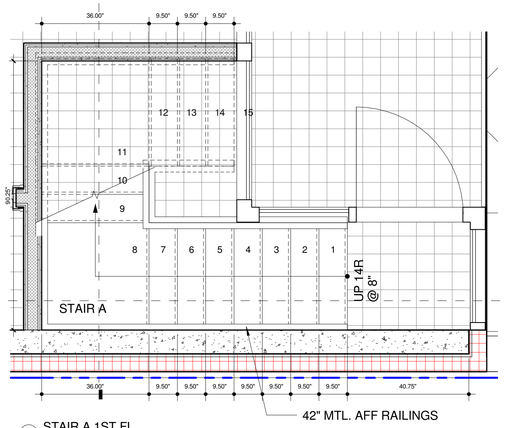
Title:
INTERIOR ELEVATIONS
(KITCHEN)

DWG #
A-501.00

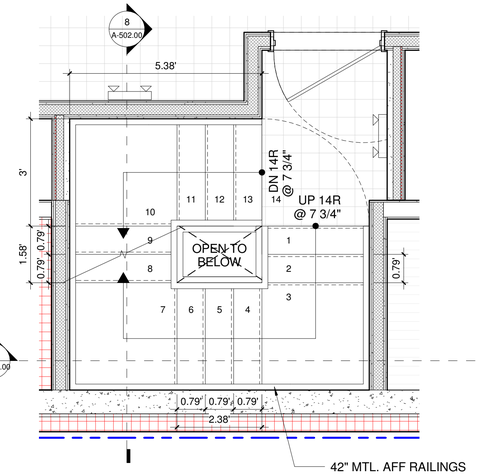
Signature:

Seal:
REGISTERED ARCHITECT
TAMAR KISILEVITZ
STATE OF NEW YORK
039127

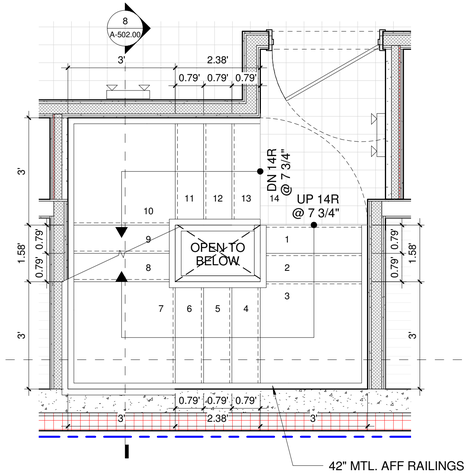
Date:	05/02/13
Scale:	As indicated
Drawn:	Designer
Job #	32157
Checked:	Checker



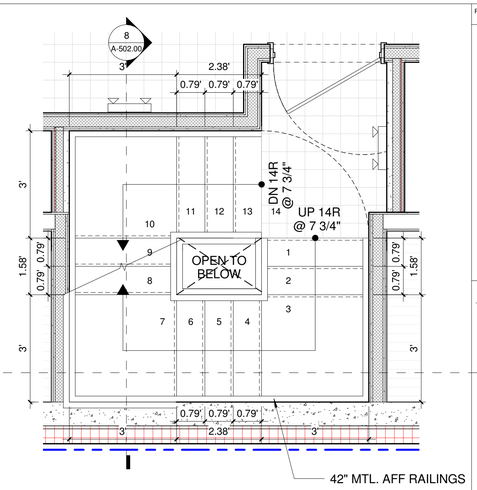
1 STAIR A 1ST FL.
1/2" = 1'-0"



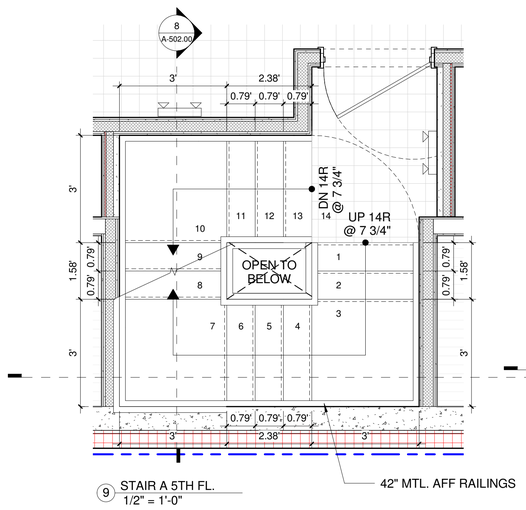
2 STAIR A 2ND FL.
1/2" = 1'-0"



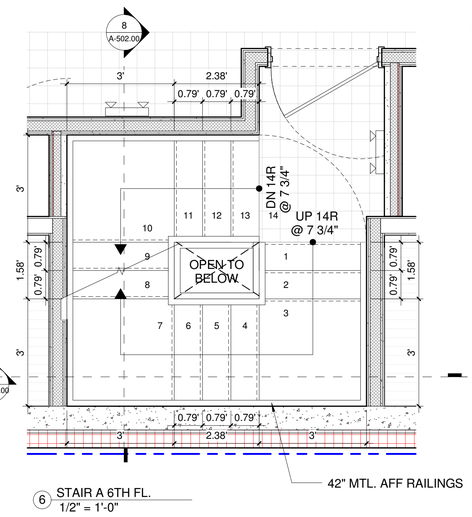
3 STAIR A 3RD FL.
1/2" = 1'-0"



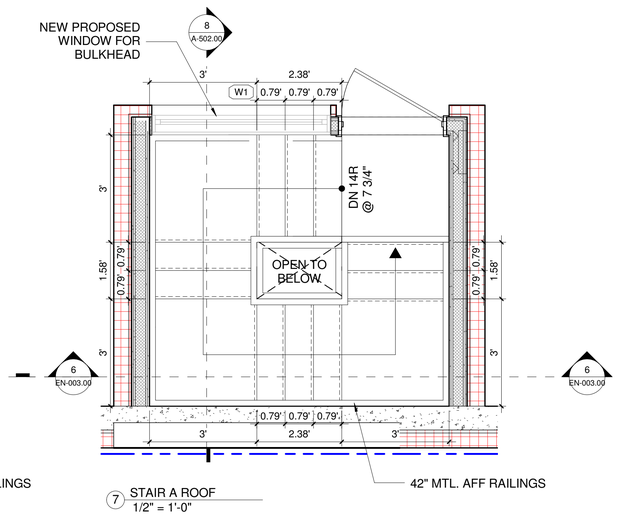
4 STAIR A 4TH FL.
1/2" = 1'-0"



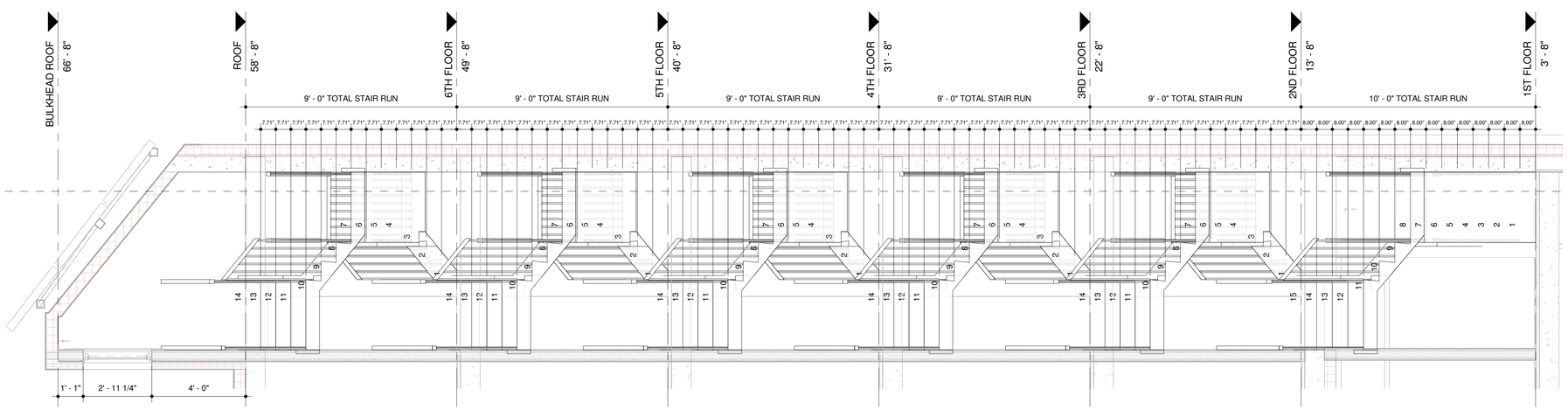
9 STAIR A 5TH FL.
1/2" = 1'-0"



6 STAIR A 6TH FL.
1/2" = 1'-0"



7 STAIR A ROOF
1/2" = 1'-0"



8 STAIR A SECTION
3/8" = 1'-0"

Revision No.	Date	Remarks

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
STAIR A & ENTRANCE

DWG #
A-502.00

Signature:

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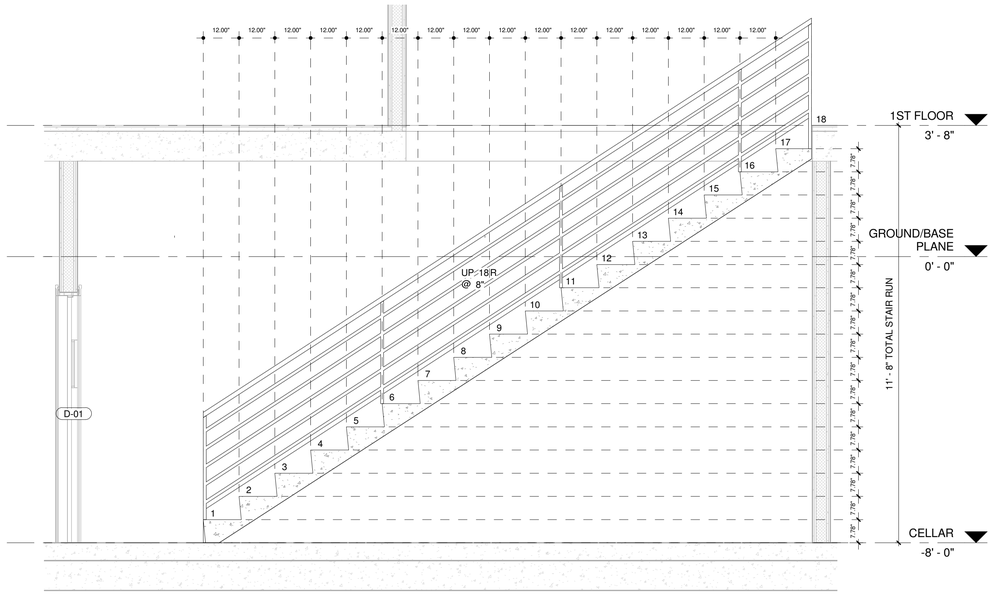
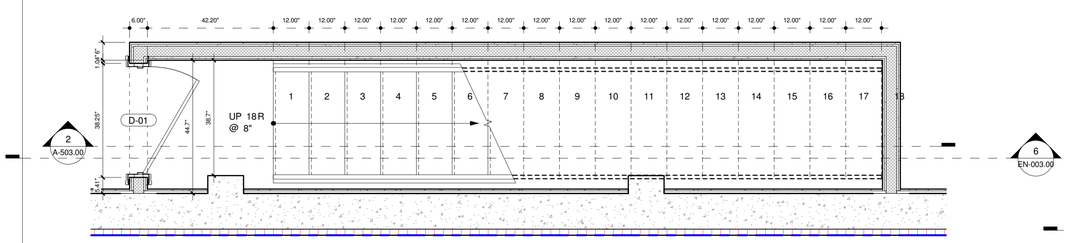
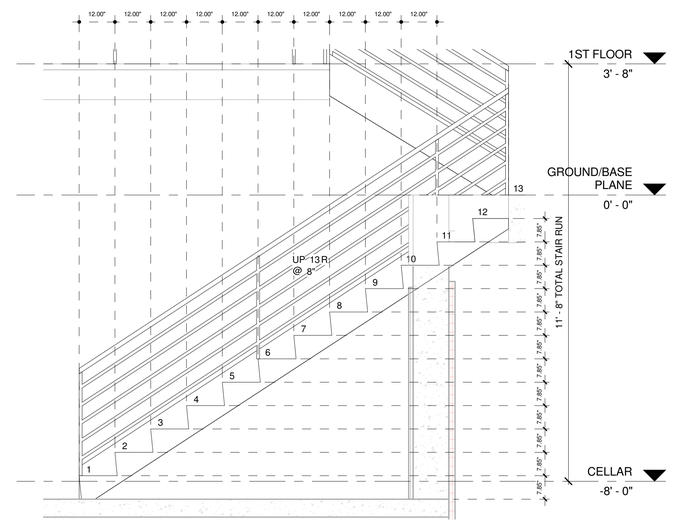
Date: 06/28/13
Scale: As indicated
Drawn: Designer
Job #: 32157
Checked: Checker



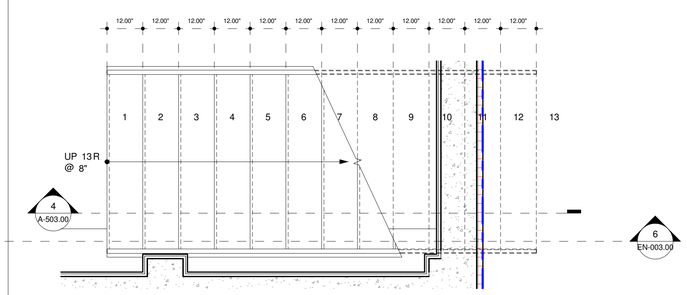
2 STAIR B SECTION
1/2" = 1'-0"



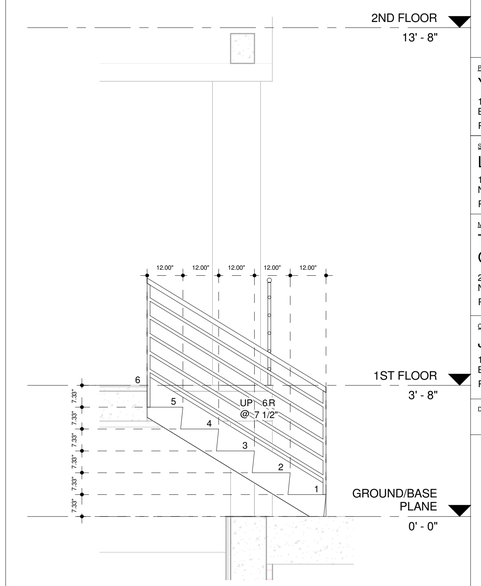
1 STAIR B PLAN
1/2" = 1'-0"



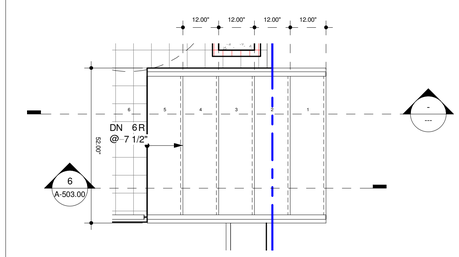
4 STAIR C SECTION
1/2" = 1'-0"



3 STAIR C PLAN
1/2" = 1'-0"



6 STAIR D SECTION
1/2" = 1'-0"



5 STAIR D PLAN
1/2" = 1'-0"

Revision No.	Date	Remarks

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320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
INTERIOR STAIR PLANS&ELEVATIONS

DWG #
A-503.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039912 STATE OF NEW YORK

Date: 10/04/13
Scale: 1/2" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

ELEVATOR DETAILS WILL BE IN COMPLIANCE WITH THE FOLLOWING SECTIONS OF ICC/ANSI A117.1-2003:

407 ELEVATORS:

ANSI 407.1 - ELEVATORS SHALL COMPLY WITH SECTION 407 AND ASME A17.1 LISTED IN SECTION 105.2.5 ELEVATORS SHALL BE PASSENGER ELEVATORS AS CLASSIFIED BY ASME A17.1. ELEVATOR OPERATION SHALL BE AUTOMATIC.

ANSI 407.2 - ELEVATOR LANDING REQUIREMENTS
ANSI 407.3 - ELEVATOR DOOR REQUIREMENTS
ANSI 407.4 - ELEVATOR CAR REQUIREMENTS

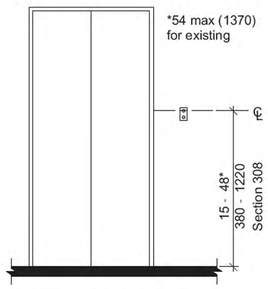


Fig. 407.2.1.1 Height of Elevator Call Buttons

308 Reach Ranges

308.1 General. Reach ranges shall comply with Section 308.

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the floor.

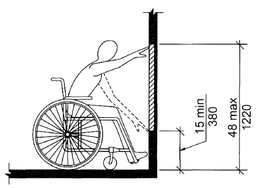


FIG. 308.2.1
UNOBSTRUCTED FORWARD REACH

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the edge of the clear floor space is 10 inches (255 mm) maximum from the element, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the floor.

EXCEPTION: Existing elements that are not altered shall be permitted at 54 inches (1370 mm) maximum above the floor.

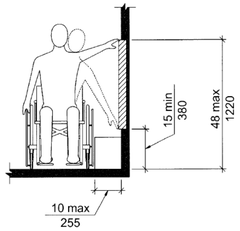
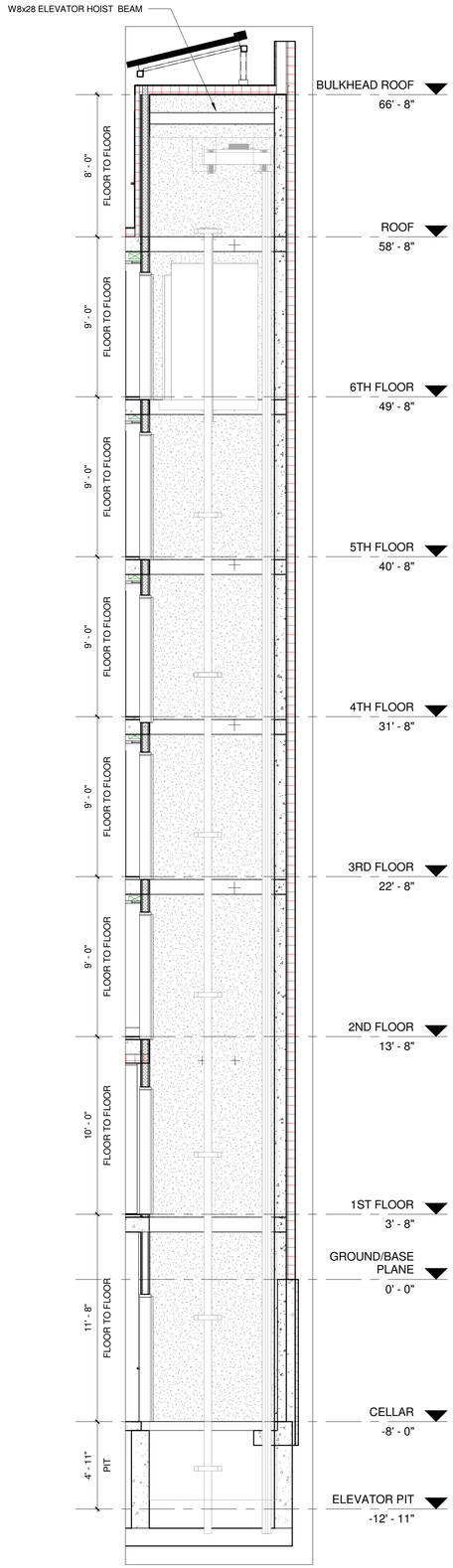
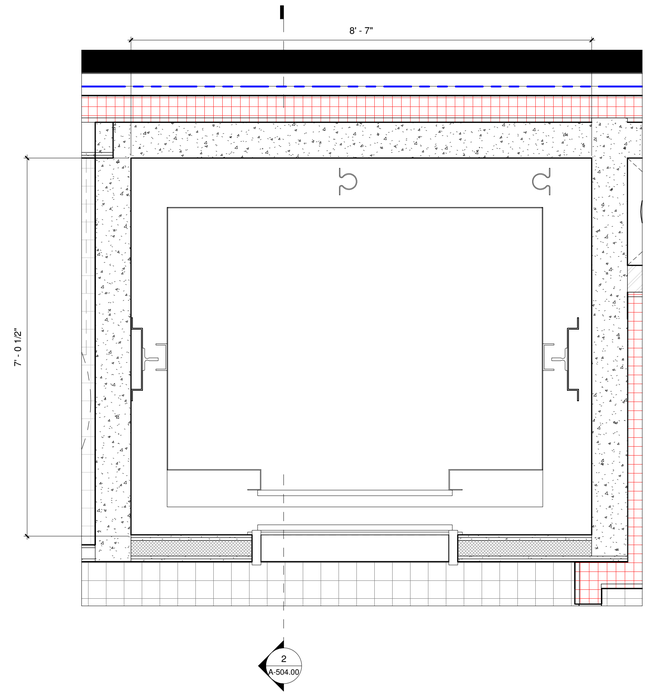


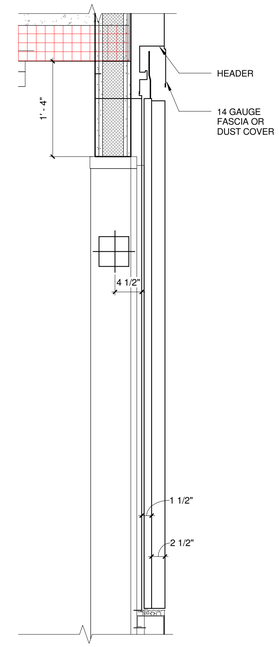
FIG. 308.3.1
UNOBSTRUCTED SIDE REACH



2 ELEVATOR SECTION
1/4" = 1'-0"



1 ELEVATOR FLOOR PLAN
3/4" = 1'-0"



3 ELEVATOR DOOR SECTION
1" = 1'-0"

Revision No.	Date	Remarks

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DOB APPLICATION NO.
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ELEVATOR PLAN AND SECTION

DWG #
A-504.00

Signature:

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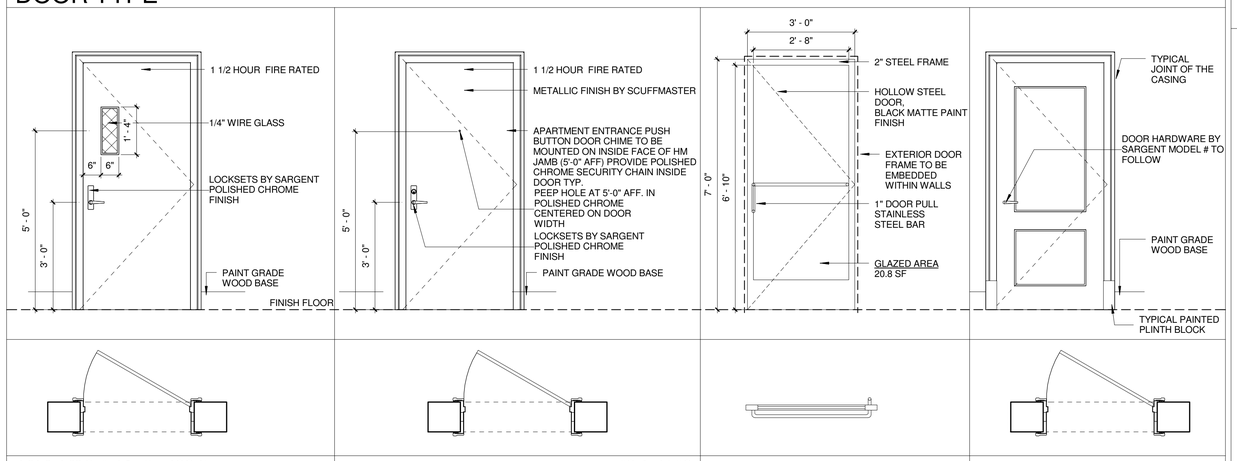
Date: 10/08/14	
Scale: As indicated	
Drawn: Designer	
Job #: 32157	
Checked: Checker	

DOOR TYPE



D-01 & D-02 STAIR & EXIT DOOR/
D-03 EXTERIOR STAIR & EXIT DOOR

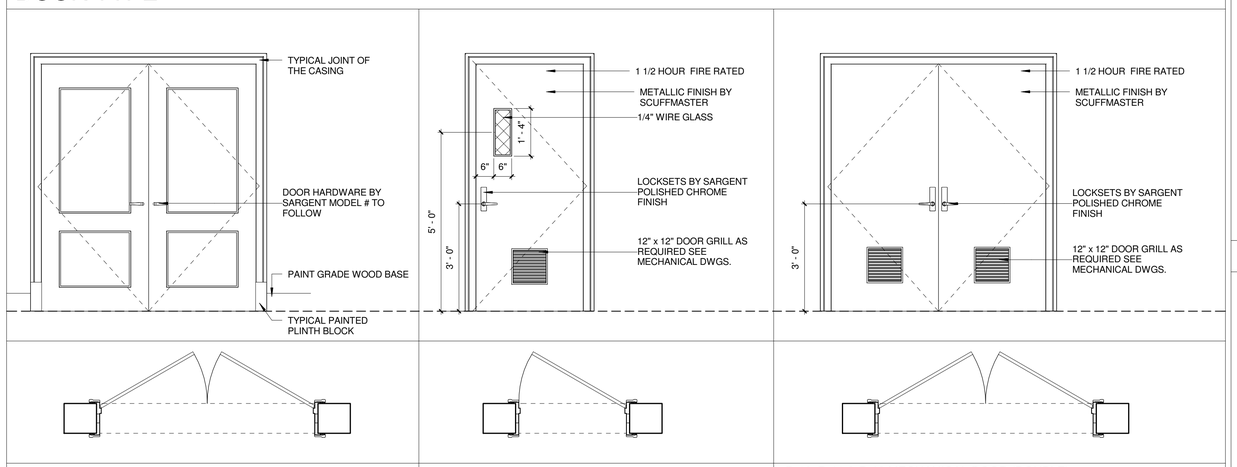
D-04 APARTMENT ENTRANCE DOOR

AS PER NYC BC 1008.4.2

D-05 STOREFRONT SINGL DOOR

D-06 INTERIOR DOOR

DOOR TYPE

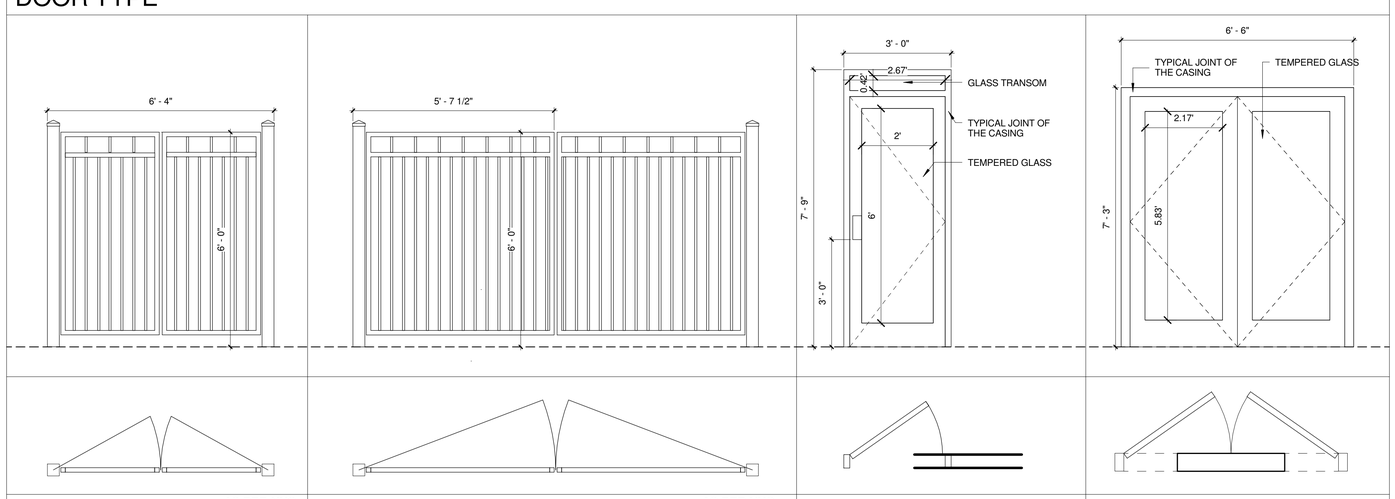


D-07 INTERIOR DOOR (DOUBLE)

D-08 & D-09 MECHANICAL DOOR

D-10, D-11 & D-12 MECHANICAL DOOR (DOUBLE)

DOOR TYPE



D-13 DOUBLE ENTRANCE GATE

AS PER NYC BC 1008.4.1

D-? DOUBLE ENTRANCE GATE

AS PER NYC BC 1008.4.2

D-15 EXTERIOR SINGLE GLASS DOOR

D-17 EXTERIOR DOUBLE GLASS DOOR

ADA NOTES

AS PER ANSI A117.1-1986 4.13.8 THROUGH 4.13.12

4.13.8* THRESHOLDS AT DOORWAYS. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4 IN (19 MM) IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2 IN (13 MM) FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 (SEE 4.5.2).
4.13.9* DOOR HARDWARE. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48 IN (1220 MM) ABOVE FINISHED FLOOR.
4.13.10* DOOR CLOSERS. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 IN (75 MM) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
4.13.11* DOOR OPENING FORCE. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
(1) FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.

(2) OTHER DOORS.

(A) EXTERIOR HINGED DOORS: (RESERVED).

(B) INTERIOR HINGED DOORS: 5 LBF (22.2N)

(C) SLIDING OR FOLDING DOORS: 5 LBF (22.2N)

THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.
4.13.12* AUTOMATIC DOORS AND POWER-ASSISTED DOORS. IF AN AUTOMATIC DOOR IS USED, THEN IT SHALL COMPLY WITH ANSI/BHMA A156.10-1985. SLOWLY OPENING, LOW-POWERED, AUTOMATIC DOORS SHALL COMPLY WITH ANSI A156.19-1984. SUCH DOORS SHALL NOT OPEN TO BACK CHECK FASTER THAN 3 SECONDS AND SHALL REQUIRE NO MORE THAN 15 LBF (66.6N) TO STOP DOOR MOVEMENT. IF A POWER-ASSISTED DOOR IS USED, ITS DOOR-OPENING FORCE SHALL COMPLY WITH 4.13.11 AND ITS CLOSING SHALL CONFORM TO THE REQUIREMENTS IN ANSI A156.19-1984.

DOOR NOTES

1. CONTRACTOR TO VERIFY ALL DOOR DIMENSIONS ROUGH & MASONRY OPENING SIZES , AND QUANTITIES AS WELL AS ALL FINISHED PARTITION THICKNESS FOR FRAME WIDTH SIZING PRIOR TO FABRICATION.
2. ALL EXTERIOR DOORS TO HAVE WEATHER-STRIPPING AT JAMB. HEAD AND SILL.
3. PROVIDE ALLOWANCE FOR BUILDER'S HARDWARE.
4. THERE WILL BE A 4" BRICK SADDLE AT ALL BALCONIES WITH SLIDING DOORS.
5. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ARCHITECT PRIOR TO FABRICATION OF ANY DOOR
6.STAIR EGRESS DOORS SHALL BE OPENABLE FROM BOTH SIDES WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT UNLESS OTHERWISE STATED IN CONSTRUCTION DOCS.

NOTES

ALL HINGES (EXCEPT FIRE RATED DOORS) TO BE
4X4 FULL MORTISE BEARING HINGE, POLISHED CHROME FINISH MODEL TA2314 BY MCKINNEY OR EQUIVALENT TO BE APPROVED BY DESIGNER.
HINGES FOR FIRE RATED ENTRY DOORS TO BE 4 1/2"X4 1/2" FULL MORTISE SINGLE ACTING STANDARD WEIGHT SPRING HINGE, POLISHED CHROME FINISH MODEL 1552 BY MCKINNEY OR EQUIVALENT TO BE APPROVED BY DESIGNER.
FOR DOOR FRAMES REFER TO DRAWINGS.

MATERIAL

1. TYPICAL DOORS TO BE SOLID WOOD BY JELDWEN
2. UNIT ENTRANCE DOORS
TO BE 1 1/2 HOUR FIRE RATED METAL DOOR
AS PER ARCHITECT'S DOOR
SCHEDULE.

FINISHES

A. ENTRY DOORS AND FRAMES (CORRIDOR SIDE) TO HAVE MATTALIC GLOSSY FNISH PAINT # SM8117 BY SCUFFMASTER
(UNDER COAT TO BE SPECIFY AS PER MANUFACTURER INSTRUCTIONS.
B. ALL OTHER DOORS AND FRAMES AND ENTRY DOOR(UNIT SIDE) TO HAVE OIL BASED SATIN FINISH PAINT,COLOR AND SPECS TO FOLLOW.

HARDWARE

(A) ENTRY DOOR : SARGENT, AVENTURA SERIES MODEL#MB(OPTION 1) OR CENTRO SERIES MODEL #MD(OPTION 2), WITH "LE1 ESCTCHEON" PLATE. 8200 SERIES MORTISE LOCK FOR ENTRY/APARTMENT FUNCTION(#43) OR EQUIV. TO BE APPROVED BY DESIGNER POLISHED CHROME FINISH.
(B) PRIVACY SET: SARGENT, AVENTURA SERIES MODEL #MB(OPTION 1) OR CENTRO SERIES MODEL#MD (OPTION 2) WITH "LN" ROSE.
8200 SERIES MORTISE LOCK FOR PRIVACY FUNCTION (#65). TO BE APPROVED BY DESIGNER STAINLESS STEEL SATIN FINISH.
(C) PASSAGE SET: SARGENT, AVENTURA SERIES MODEL #MB(OPTION 1) OR CENTRO SERIES MODEL#MD (OPTION 2) WITH "LN" ROSE. 8200 SERIES MORTISE LOCK FOR CLOSET FUNCTION(#04). TO BE APPROVED BY DESIGNER STAINLESS STEEL SATIN FINISH.

NOTES

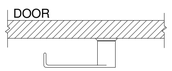
AS PER RS 4-6, SECTION 4.26.5, DOORS MAY SWING INTO THE BATHROOM OF AN ADAPTABLE DWELLING UNIT IF THE DOOR, DOOR BUCK AND ADJACENT SPACE IS DESIGNED AND CONSTRUCTED SO THAT REMOUNTING THE HINGES IS THE ONLY CHANGE REQUIRED TO SWING THE DOOR OUT AS SHOWN IN FIG. 53.

DOOR NOTES

1. CONTRACTOR TO VERIFY ALL DOOR DIMENSIONS ROUGH & MASONRY OPENING SIZES , AND QUANTITIES AS WELL AS ALL FINISHED PARTITION THICKNESS FOR FRAME WIDTH SIZING PRIOR TO FABRICATION.
2. ALL EXTERIOR DOORS TO HAVE WEATHER-STRIPPING AT JAMB. HEAD AND SILL.
3. PROVIDE ALLOWANCE FOR BUILDER'S HARDWARE.

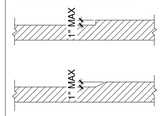
THRESHOLD SECTION

HANDICAP DOOR HARDWARE



U-SHAPED HANDLE

ACCESSIBLE ROUTES AND GROUND AND FLOOR SURFACES



Door Schedule

Door Type	Family	Count	Dimensions Width	Dimensions Height	Dimensions Thickness	Material	Fire Rating	Comments	Head
	Curtain Wall-Store Front-Dbl	1	6' - 0 1/4"	8' - 4 1/4"					
D-01	Stair & Exit Door	8	3' - 0"	7' - 0"	0' - 1 1/2"		1 1/2 HR. SELF CLOSING		
D-02		8	2' - 10"	7' - 0"	0' - 1 1/2"		1 1/2 HR. SELF CLOSING		
D-04	Apartment Entrance Door	2	3' - 0"	7' - 0"	0' - 1 1/2"		1 1/2 HR. SELF CLOSING		
D-05	Storefront Single Door	3					NO RATING		
D-06	Interior Door	31	2' - 10"	7' - 0"	0' - 1 1/2"		NO RATING		
D-07	Interior Door Double	1	3' - 0"	7' - 0"	0' - 1 1/2"		NO RATING		
D-09	Mechanical Door	7	3' - 0"	7' - 0"	0' - 1 1/2"		1 1/2 HR. SELF CLOSING		
D-10	Mechanical Door - NO GRILL	3	3' - 0"	7' - 0"	0' - 1 1/2"		1 1/2 HR. SELF CLOSING		
D-12	Mechanical Door Double	2	4' - 8"	7' - 0"	0' - 1 1/2"		1 1/2 HR. SELF CLOSING		
D-14	Exterior Stair& Exit Door	1	3' - 8"	7' - 0"	0' - 1 1/2"		1 1/2 HR. SELF CLOSING		
D-15	Exterior Single Glass Door w/ Transom	1	2' - 8"	7' - 0"					
D-16	Exterior Double Glass Door	1	6' - 0"	7' - 0"					
Grand total: 69		69							

Revision No.	Date	Remarks

Project Manager/Designer:
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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
DOOR SCHEDULE

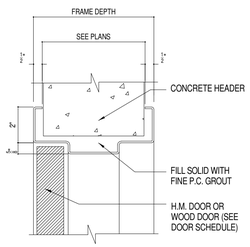
DWG #
A-600.00

Signature:

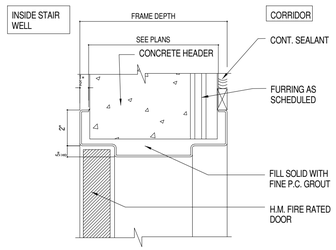
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039137 STATE OF NEW YORK

Date: 07/22/02
Scale: As indicated
Drawn: Designer
Job #: 32157
Checked: Checker

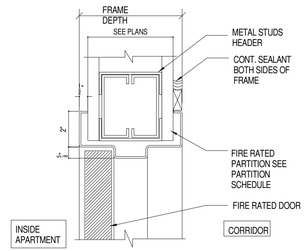
HEAD DETAILS



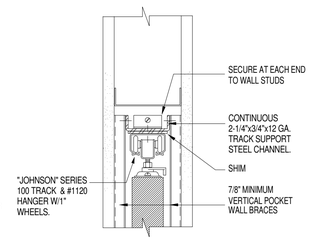
H1 Head Detail @ Non- Furred Conc. Wall



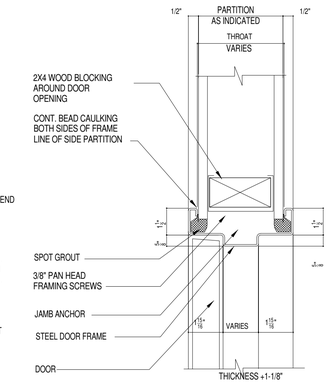
H2 Head Detail @ Typ Exit Stair



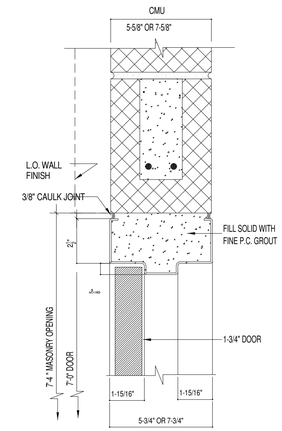
H3 Typ. Jamb Detail @ Unit Entrance Door



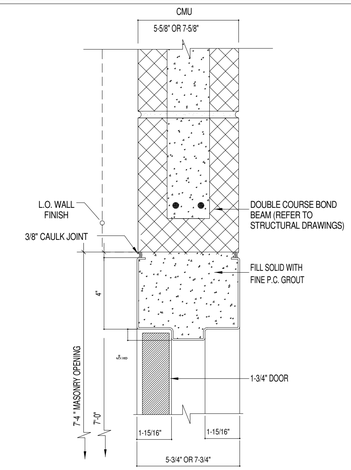
H4 Head door @ Pocket



H5 Head @ Inerior of Apartment Units

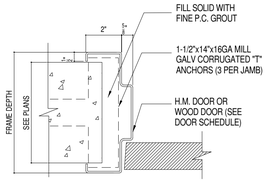


H6 Head at Cmu Wall

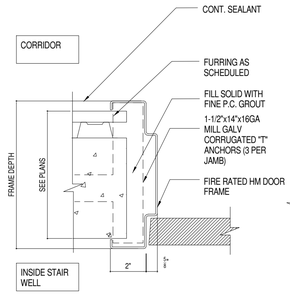


H7 Head at Cmu Wall/ Double Course Bond Beam

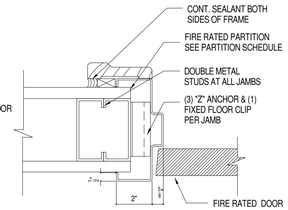
JAMB DETAILS



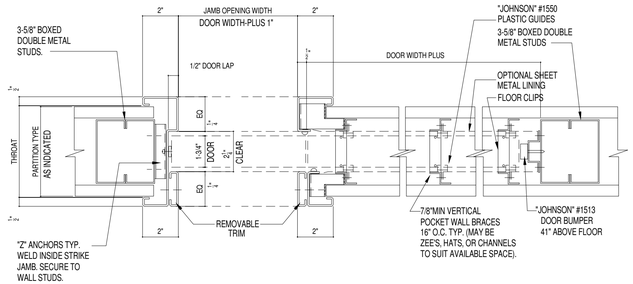
J1 Jamb Detail @ Non-furred Conc. Wall



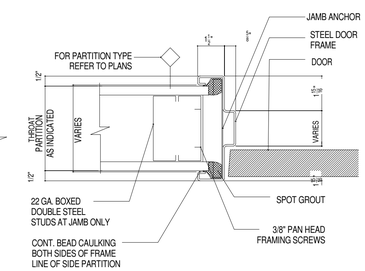
J2 Jamb Detail -@ furred Conc. Wall



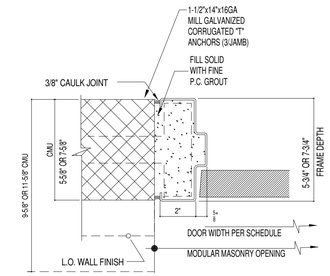
J3 Jamb Detail @ Unit Entrance Door



J4 Jamb Detail @ Pocket Door

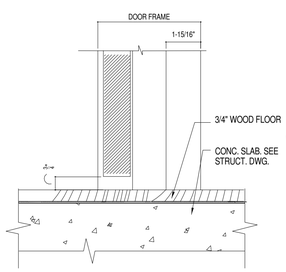


J5 Jambs @ Interior of Apartment Units

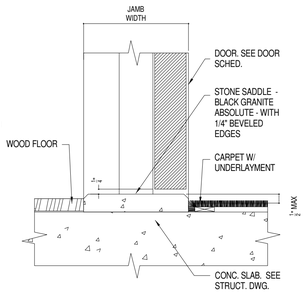


J6 Jambs @ Concrete Block Wall

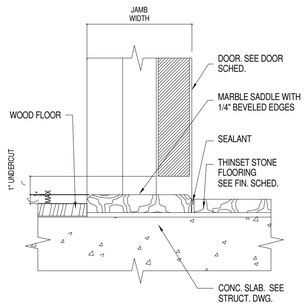
SILL DETAILS



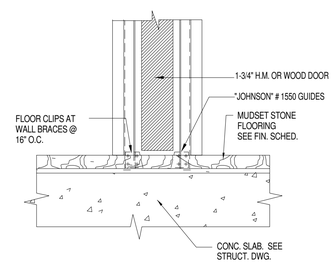
S1 Typical Wood Saddle



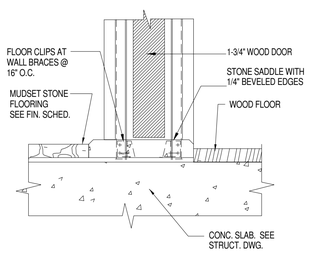
S2 Typical Saddle @ Unit Entry



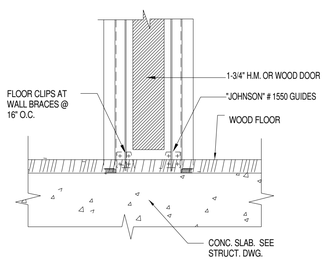
S3 Typical Saddle @ Wood to Tile



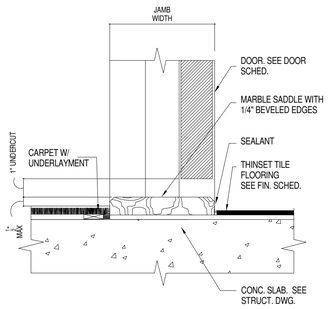
S4 Typical Saddle @ Pocket Door at Concierge



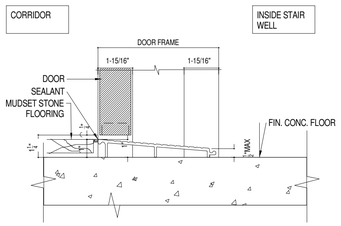
S5 Typical Saddle @ Pocket Door at Tile to Wood



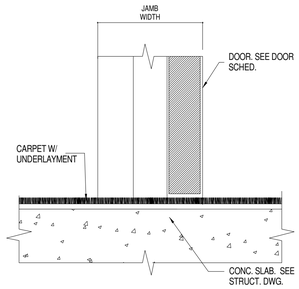
S6 Typical Saddle @ Pocket Door at Wood to Wood



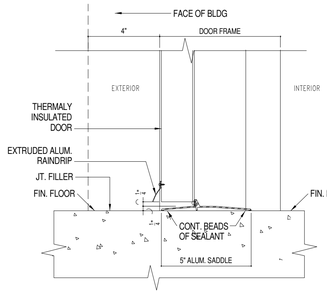
S7 Typical Saddle @ Carpet to Tile



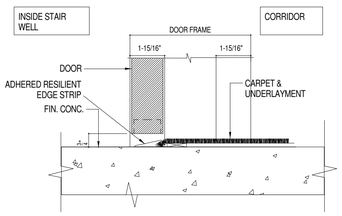
S8 Typical Saddle @ Tile and Concrete



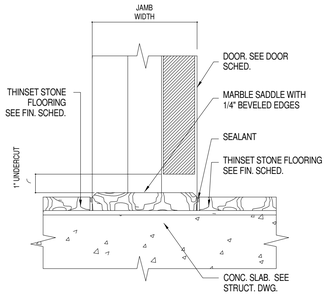
S9 Typical Saddle @ Carpet to Carpet



S10 Typical Saddle @ Exterior Door



S11 Typical Saddle @ Carpet and Concrete



S12 Typical Saddle @ Tile to Tile

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

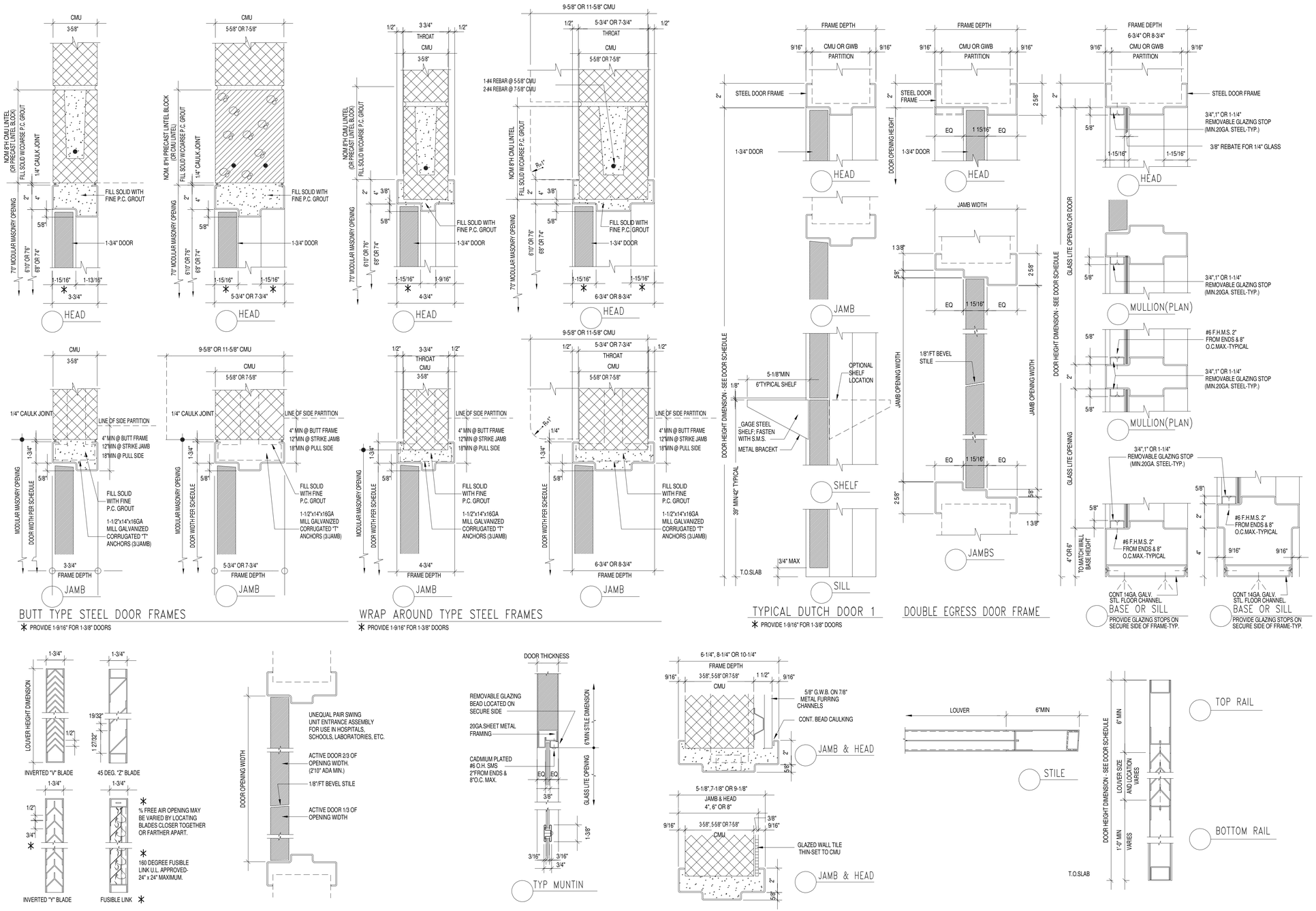
Title:
DOOR DETAILS

DWG.#
A-601.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039912 STATE OF NEW YORK

Date:	05/21/12
Scale:	3" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker



Revision No.	Date	Remarks

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320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

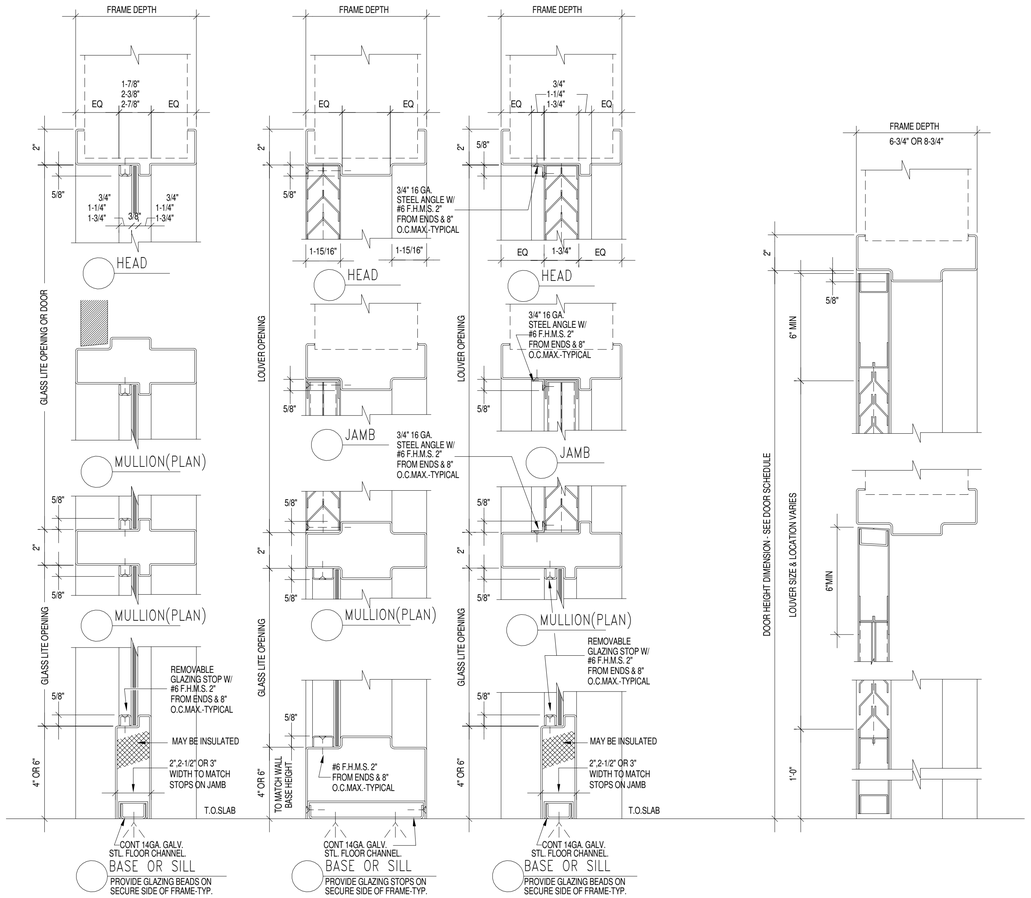
Title:
DOOR DETAILS

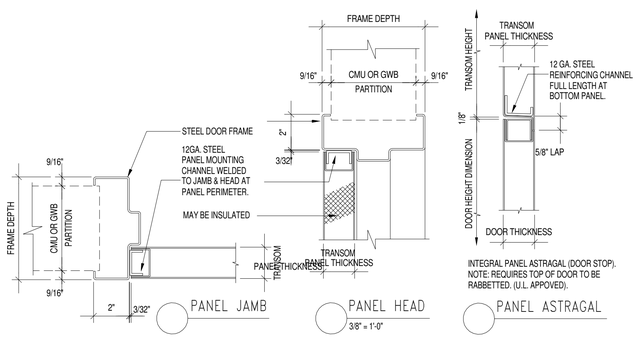
DWG.#
A-602.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 023997 STATE OF NEW YORK

Date:	05/21/12
Scale:	3" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker





Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
DOOR DETAILS

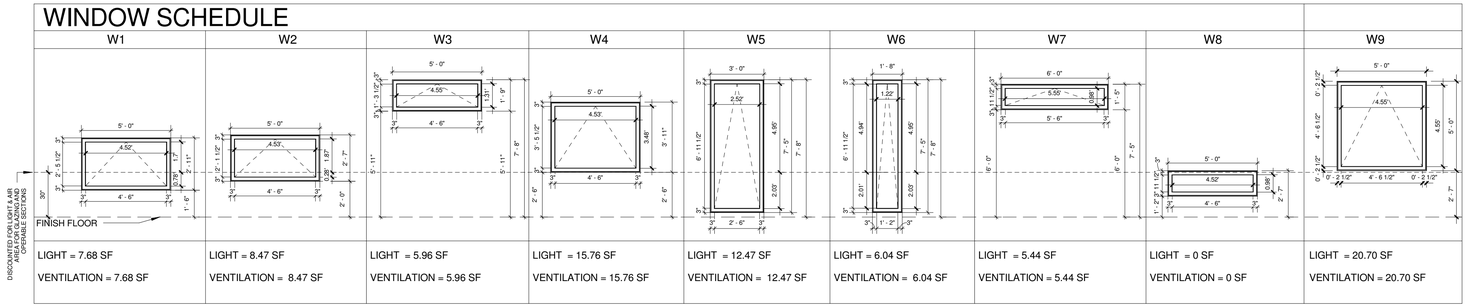
DWG #
A-603.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039137 STATE OF NEW YORK

Date:	05/21/12
Scale:	3" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

WINDOW SCHEDULE



W1	W2	W3	W4	W5	W6	W7	W8	W9
LIGHT = 7.68 SF	LIGHT = 8.47 SF	LIGHT = 5.96 SF	LIGHT = 15.76 SF	LIGHT = 12.47 SF	LIGHT = 6.04 SF	LIGHT = 5.44 SF	LIGHT = 0 SF	LIGHT = 20.70 SF
VENTILATION = 7.68 SF	VENTILATION = 8.47 SF	VENTILATION = 5.96 SF	VENTILATION = 15.76 SF	VENTILATION = 12.47 SF	VENTILATION = 6.04 SF	VENTILATION = 5.44 SF	VENTILATION = 0 SF	VENTILATION = 20.70 SF

NOTE: All windows to have min-35 dB(A) of window wall attention as per ZR 123-32 (Typ.)

Window Schedule

Type Mark	R.O. Width	R.O. Height	Type	Count	Manufacturer	Model	Material	Finish	Head	Jamb	Sill	Glazing Thickness	Glazing Type	Head Height	Comments
W1	5' - 0"	2' - 11 1/4"	32157 - Awning Window	3	Marvin Windows and Doors	CUAWN4836									
W2	5' - 0"	2' - 7 1/4"	32157 - Awning Window	3	Marvin Windows and Doors	CUAWN4836								4' - 7 1/4"	
W3	5' - 0"	1' - 9 1/4"	32157 - Awning Window	5	Marvin Windows and Doors	CUAWN4836								7' - 8 1/4"	
W4	5' - 0"	3' - 11 1/4"	32157 - Awning Window	4	Marvin Windows and Doors	CUAWN4836								6' - 5 1/4"	
W5	3' - 0"	7' - 5 1/4"	32157 - Awning Window	5	Marvin Windows and Doors	CUAWN4836								7' - 8 1/4"	
W6	1' - 8"	7' - 5 1/4"	32157 - Awning Window	5	Marvin Windows and Doors	CUAWN4836								7' - 8 1/4"	
W8	5' - 0"	1' - 5 1/4"	32157 - Awning Window_NO SWING	10	Marvin Windows and Doors	CUAWN4836									
W9	5' - 0"	5' - 0"	32157 - Awning Window	10	Marvin Windows and Doors	CUAWN4836									

Grand total: 45 45

WINDOW NOTES:

AS PER NYC BC 1008.4.3 ALL OPERABLE WINDOWS SHALL BE EQUIPED W/ SASH LOCK DESIGNED TO BE OPENED FROM INSIDE ONLY.

1. ALL WINDOWS VIEWED FROM EXTERIOR. TYPICALLY SOUTH FACADE. SEE ELEVATIONS FOR LOCATIONS

2. ALL WINDOWS ARE FIXED EXCEPT UNO, OR THUSLY:

SLIDER

OUTSWING CASEMENT/TERRACE DOOR

HINGE

SPANDREL

GP= GLASS PANE

R=WINDOW SYSTEM REVERSED (FOR NORTH FACADE)

F= FIXED WINDOW

3. ALL & WINDOW WALL FRAMING TO BE SPLIT FINISH - METAL BROWN COLOR EXTERIOR, WOOD FINISH INTERIOR. SEE SPECIFICATION FOR DETAILS

4. WINDOWS BASED ON NOMINAL M.O., REFER TO PLANS AND DETAILS FOR SPECIFIC OPENING DIMESION AND ANY JAMB/HEAD/SILL OVERLAPS.

5. MAX CASEMENT SIZE: 44" X 66"

GLASS NOTES & TYPES

ALL WINDOWS TO BE INSULATED TRIPPLE PANE GLAZING W/ U-VALUE OF 0.15 (OR BETTER) OR EQUAL U-VALUE DOUBLE PANE , LOW-E U.N.O, REFER TO SPECIFICATIONS FOR ADDI. DETAILS

G-1 ANNEALED BOTH PANES

G-2 TEMPERED INTERIOR, ANNEALED EXTERIOR

G-3 TEMPERED CLEAR BOTH PANES

G-4 TRANSLUCENT/FROSTED 2ND SURFACE

G-5 LAMINATED GLASS (CANOPY)

G-6

G-7 3/4" TEMPERED SINGLE PANE

G-8 TRANSLUCENT/FROSTED 2ND SURFACE TEMPERED BOTH PANE

SB SHADOW BOX, PAINTED GWB NTERIOR

Revision No.	Date	Remarks

Project Manager/Designer:
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DOB APPLICATION NO.
320593041

TAMAR KISILEVITZ, ARCHITECT, PLLC
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Drawing scales as indicated are for reference only and are not intended to accurately depict actual or designed conditions. Written dimensions shall govern.

Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

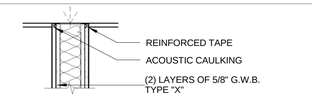
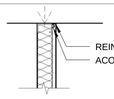
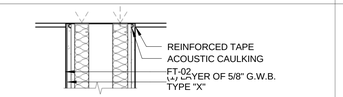
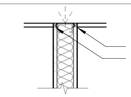
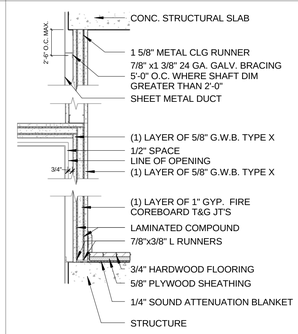
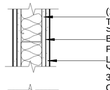
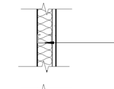
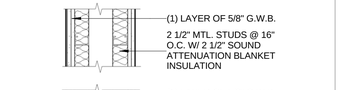
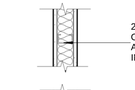
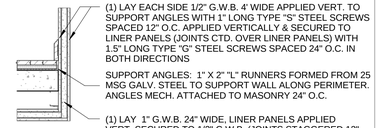
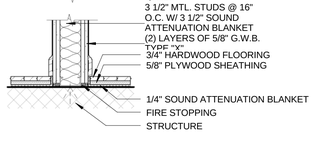
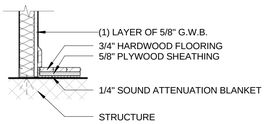
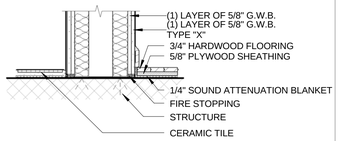
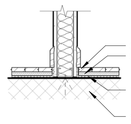
Title:
WINDOW SCHEDULE

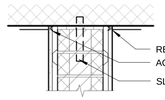
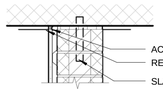
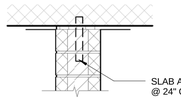
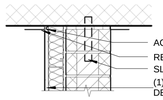
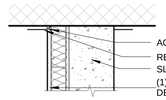
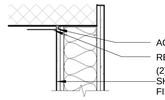
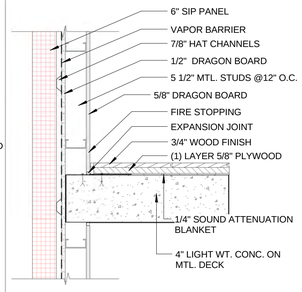
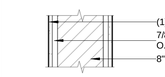
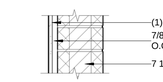
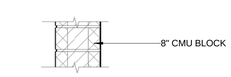
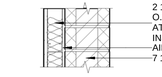
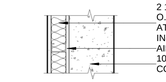
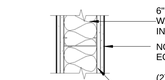
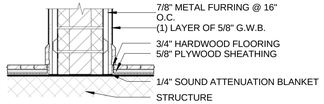
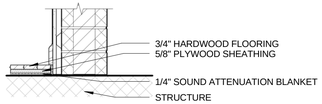
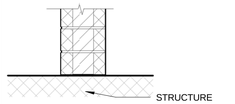
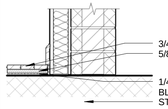
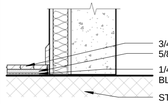
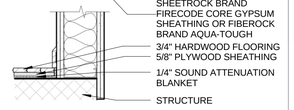
DWG #
A-604.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039127 STATE OF NEW YORK

Date:	05/30/12
Scale:	As indicated
Drawn:	Designer
Job #	32157
Checked:	Checker

	2 HR (1) (1A) (1B)	0 HR & 1 HR (2) (2A) (2B)	1 HR & 2HR (3) (3A)	0HR (4) (4A)	2 HR (5)
RATING	UL No: U404 UL No: V419	1HR FR ASSEMBLY UL No: X528	UL No: - 52 STC BSA 173-77 SM	UL No: U405	UL No: U529 STC RATING: 51
LOCATION	INTERIOR NON-LOAD BEARING PARTITION	WALL FURRING	PIPE CHASE	INTERIOR NONBEARING PARTITION	SHAFT WALL PARTITION
HEAD					
PLAN					
BASE					JOINT COMPOUND: MIXED WITH WATER, APPLIED UNIFORMLY TO BOTH SURFACES OF G.W.B. LINER PANELS WITH A NOTCHED SPREADER 1/4" HIGH BY 1/4" WIDE SPACE 1" O.C.
	(1) LAYER OF 5/8" QUITEROCK QR527 OVER (1) LAYER OF 5/8" TYPE "X" G.W.B. ON 3 1/2" MTL. STUDS @ 16" O.C. W/ E1/2" SOUND ATTENUATION BLANKET INSULATION OVER (2) LAYERS OF 5/8" TYPE"X" G.W.B. LOCATION: WITHIN APTS. 2HR RATED **1A** SAME AS **1** BUT: (1) LAYER OF 5/8" QUITEROCK QR527 ON 24 GA. 36"x48" STEEL SHEET 18" ABOVE FLOOR LINE OVER (1) LAYER OF 5/8" TYPE "X" G.W.B. (1) LAYER OF 5/8" G.W.B. OR (1) LAYER OF 5/8" DUROCK BOARD IN BATHTHROOM AND KITCHEN ON 3 1/2" MTL. STUDS @ 16" O.C. W/ E1/2" SOUND ATTENUATION BLANKET INSULATION OVER (2) LAYERS OF 5/8" TYPE"X" G.W.B. LOCATION: BETWEEN APT.& PUBLIC AREAS. 2HR RATED **1B** SAME AS **1** BUT: (2) LAYER OF 5/8" G.W.B. TYPE "X" EACH SIDE OF 3 1/2" MTL. STUDS @ 16" O.C. W/ 3 1/2" SOUND ATTENUATION BLANKET INSULATION; LOCATION: WITHIN APT. 2HR RATED **1D** SAME AS **1A** BUT: WITH (1) LAYER OF 5/8" DENSSHIELD TILE GUARD (G.P.) INSTEAD OF G.W.B. OR DESARMOR PLUS @ TUB/SHOWER LOCATION & TILED WALLS @ BATHROOMS AND POWDER ROOMS. **1E** SAME AS **1** BUT: (2) LAYER OF 5/8" G.W.B. TYPE "X" EACH SIDE OF 5 1/2" MTL. STUDS @ 16" O.C. W/ 3 1/2" SOUND ATTENUATION BLANKET INSULATION; LOCATION: BETWEEN COMMERCIAL & RESIDENTIAL USES	**2** (1) LAYER OF 5/8" GYP. WALL BOARD ON 2 1/2" MTL STUD @ 16" O.C. W/ 2 1/2" SOUND ATTENUATION BLANKET INSULATION LOCATION: ABOVE GRADE, USED W/ EXISTING EXTERIOR MASONRY WALLS **2A** SAME AS **2** BUT: (1) LAYER OF 5/8" GYP. WALL BOARD ON 7/8" MTL. FURRING W/ 7/8" SOUND ATTENUATION BLANKET INSULATION LOCATION: ABOVE GRADE, USED W/ EXISTING INTERIOR MASONRY WALLS **2B** SAME AS **2** BUT: (1) LAYER OF 5/8" GYP. WALL BOARD ON 1 1/2" MTL. STUD OVER 2" RIGID BOARD INSULATION LOCATION: BELOW GRADE, USED W/ CONCRETE FOUNDATION WALLS **2C** SAME AS **2A** BUT: (2) LAYER OF 5/8" GYP. WALL BOARD ON 2 1/2" MTL. STUD W/ 2 1/2" SOUND ATTENUATION BLANKET INSULATION LOCATION: COLUMN ENCLOSURE **2D** SAME AS **2A** BUT: WITH (1) LAYER OF 5/8" DENSSHIELD TILE GUARD (G.P.) INSTEAD OF G.W.B. OR DESARMOR PLUS @ TUB/SHOWER LOCATION & TILED WALLS @ BATHROOMS AND POWDER ROOMS.	**3** CERAMIC TILES @ BATHROOM & P.RMS OVER (1) LAYER OF 5/8" G.W.B. TYPE "X" ON 2 1/2" METAL STUDS @ 16" O.C. 2 1/2" SOUND ATTENUATION BLANKET INSULATION & OVER (1) LAYER OF TYPE "X" G.W.B. ON 1 5/8" METAL STUD @ 16" O.C. OPPOSITE SIDE (1/2" O.C. BEHIND KITCHEN CABINETS) DUROCK BD. TO BE INSTALLED INSTEAD OF GYP.BD @ TUB LOCATION. LOCATION: WITHIN APT. 1HR RATED **3A** SAME AS **3** BUT: W/ (1) LAYER OF 5/8" WR G.W.B OR TYPE "X" OVER (1) LAYER OF 5/8" G.W.B. ON 2 1/2" MTL STUDS AND (1) LAYERS OF 5/8" WR G.W.B. OR TYPE "X" OVER (1) LAYER OF 5/8" G.W.B. ON 1 5/8" MTL STUDS LOCATION: BETWEEN APT. AND PUBLIC AREAS, AND BETWEEN APTS. 2HR RATED DUROCK INSTEAD OF G.W.B. @ TUB LOCATION	**4** (1) LAYER OF 5/8" G.W.B. EACH SIDE OF 2 1/2" MTL STUD @ 16" O.C. W/ 2 1/2" SOUND ATTENUATION BLANKET INSULATION; LOCATION: WITHIN APT. **4A** SAME AS **4** BUT: (1) LAYER OF 5/8" G.W.B. EACH SIDE OF 31/2" MTL STUD @ 16" O.C. W/ 2 1/2" SOUND ATTENUATION BLANKET NSULATION; LOCATION: WITHIN APT. **4B** SAME AS **4** BUT: WITH (1) LAYER OF 5/8" DUROCK BOARD INSTEAD OF G.W.B. & CERAMIC TILES @ TUB/SHOWER LOCATION: BATHROOMS AND POWDER ROOMS.	**5** (2) LAYER SHEETROCK BRAND FIRECODE C CORE 1/2" OVER 1/2" MTL. FURRING ON C-H STUD 2 1/2" OVER (1) LAYER SHEETROCK BRAND GYPSUM LINER PANEL (SLX) 1" LOCATION: SHAFTWALL 2HR RATED STC RATING: 51 **5A** SAME AS **5** BUT: **IMPACT RESISTANT SHAFT ENCLOSURE WALL** (MASONRY EQUIVALENT): THE FIRST (INSIDE) LAYER OF WALL ENCLOSURE FACING INTERIOR OF THE STAIRS TO BE ASTMC 1629 IMPACT CLASSIFICATION LEVEL 2 WALL BOARD.

	0hr - 3 HR (6) (6A) (6B) (6C)	0hr - 3 HR (7) (7A) (7B) (7C)	0hr - 3 HR (8) (8A) (8B) (8C)	0hr - 3 HR (9) (9A) (9B) (9C)	0hr - 3 HR (10) (10A) (10B) (10C)	0hr - 2 HR (11) (11A) (11B)	(12) (12A) (12B)
RATING	UL No: - UL No: -	UL No: - UL No: -	UL No: - U-914 (3HR)	UL No: - UL No: -	UL No: - UL No: -	UL No: - UL No: -	0-2 HR
LOCATION							MEA #: 359-02-M
HEAD							
PLAN							
BASE							
	NOTE: USE MASONRY REINFORCING "BLOK-LOK"- HORIZONTALLY @ EVERY 2 COURSES * AT ALL BATHROOM TUB LOCATIONS USE 5/8" W.R. DENSSHIELD	NOTE: USE MASONRY REINFORCING "BLOK-LOK"- HORIZONTALLY @ EVERY 2 COURSES	NOTE: USE MASONRY REINFORCING "BLOK-LOK"- HORIZONTALLY @ EVERY 2 COURSES	NOTE: USE MASONRY REINFORCING "BLOK-LOK"- HORIZONTALLY @ EVERY 2 COURSES	NOTE: USE MASONRY REINFORCING "BLOK-LOK"- HORIZONTALLY @ EVERY 2 COURSES	NOTE: PROVIDE (1) LAYER 5/8" CEMENT BOARD IN LIEU OF OUTERMOST LAYER OF DENSGLASS GOLD BOARD AT ALL EXTERIOR WALLS WITH STUCCO FINISH.	
	6 4" CONCRETE MASONRY UNIT W/ 7/8" METAL FURRING & 5/8" G.W.B EACH SIDE (NO FIRE RESISTANCE RATING) **6A** SAME AS **6** BUT: 6" CONCRETE MASONRY UNIT W/ 7/8" METAL FURRING & 5/8" G.W.B EACH SIDE * **6B** SAME AS **6** BUT: 3 HR 8" CONCRETE MASONRY UNIT W/ 7/8" METAL FURRING & 5/8" G.W.B EACH SIDE * **6C** SAME AS **6** BUT: 3 HR 12" CONCRETE MASONRY UNIT W/ 7/8" METAL FURRING & 5/8" G.W.B EACH SIDE *	**7** 4" CONCRETE MASONRY UNIT W/ 7/8" METAL FURRING & 5/8" G.W.B ONE SIDE (NO FIRE RESISTANCE RATING) **7A** SAME AS **7** BUT: 6" CONCRETE MASONRY UNIT W/ 7/8" METAL FURRING & 5/8" G.W.B ONE SIDE * **7B** SAME AS **7** BUT: 3 HR 8" CONCRETE MASONRY UNIT W/ 7/8" METAL FURRING & 5/8" G.W.B ONE SIDE * **7C** SAME AS **7** BUT: 3 HR 12" CONCRETE MASONRY UNIT W/ 7/8" METAL FURRING & 5/8" G.W.B ONE SIDE *	**8** 4" CONCRETE MASONRY UNIT (NO FIRE RESISTANCE RATING) **8A** SAME AS **8** BUT: 6" CONCRETE MASONRY UNIT **8B** SAME AS **8** BUT: 3 HR 8" CONCRETE MASONRY UNIT W/ 7/8" METAL FURRING & 5/8" G.W.B ONE SIDE (UL DESIGN NUMBER UL-914) **8C** SAME AS **8** BUT: 3 HR 12" CONCRETE MASONRY UNIT	**9** 4" CONCRETE MASONRY UNIT W/ 2 1/2" METAL STUD & 5/8" GYP. BD. W/ BATT INSULATION (NO FIRE RESISTANCE RATING) **9A** SAME AS **9** BUT: 6" CONCRETE MASONRY UNIT W/ 2 1/2" METAL STUD & 5/8" GYP. BD. W/ BATT INSULATION **9B** SAME AS **9** BUT: 3 HR 8" CONCRETE MASONRY UNIT W/ 2 1/2" METAL STUD & 5/8" GYP. BD. W/ BATT INSULATION **9C** SAME AS **9** BUT: 3 HR 12" CONCRETE MASONRY UNIT W/ 2 1/2" METAL STUD & 5/8" GYP. BD. W/ BATT INSULATION		**11** 6" 16 GA COLD FORMED STEEL STUDS 16" O.C. (2) LAYER OF 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM GYPSUM PANELS, INTERIOR R19 FOIL FACED BATT INSULATION COMPLY WITH BC 27-335.1(2) LAYER OF 5/8" SHEETROCK BRAND FIRECODE CORE GYPSUM SHEATHING OR FIBEROCK BRAND AQUA-TOUGH SHEATHING, EXTERIOR SIDE **11A** SAME AS **11** BUT: WITH (1) LAYER OF 5/8" DENSSHIELD TILE GUARD (G.P.) INSTEAD OF G.W.B. OR DESARMOR PLUS (INTERIOR SIDE) @ TUB/SHOWER LOCATION AND TILED WALLS @ BATHROOMS AND P.RMS. LOCATION: BATHROOMS **11B** SAME AS **11** BUT: WITH (1) LAYER OF 5/8" DENSARMOR PLUS FIREGUARD (G.P.) INSTEAD OF G.W.B.	**12** 6" STRUCTURALLY INSULATED PANEL OVER 8" CONCRETE CAST-IN-PLACE WALL. LOCATION: EXTERIOR PERIMETER. 2HR. RATED. **12A** 6" STRUCTURALLY INSULATED PANEL. (1) LAYER OF 1/2" DRAGON BOARD W/ 5.5" MTL. STUDS AND 5/8" DRAGON BOARD . LOCATION: EXTERIOR PERIMETER. 2HR. RATED. MEA #: 359-02-M

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

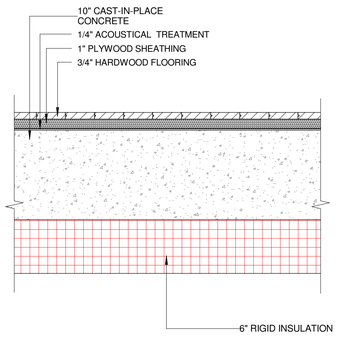
Title:
WALL TYPE SCHEDULE

DWG #
A-605.00

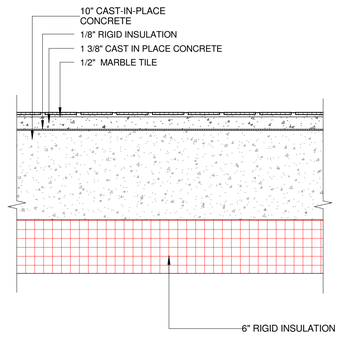
Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039107 STATE OF NEW YORK

Date:	07/22/02
Scale:	1" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

FLOOR CONSTRUCTION AT SECOND FLOOR HALWAYS



FLOOR CONSTRUCTION AT SECOND FLOOR BATHROOMS



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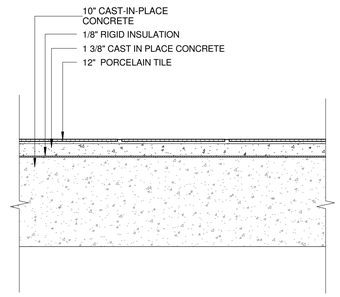
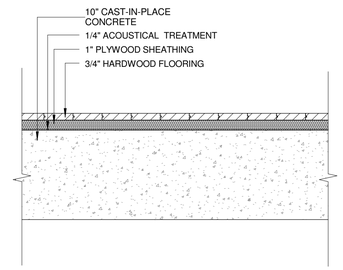
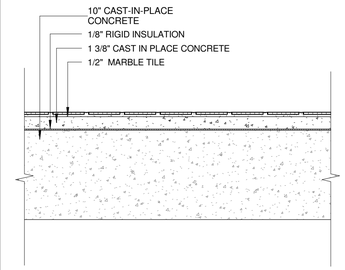


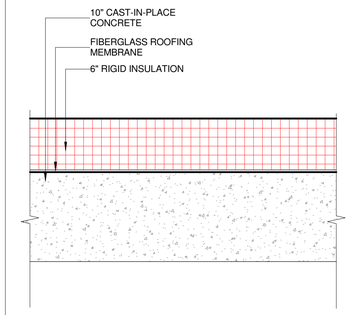
FLOOR CONSTRUCTION AT APARTMENTS (TYP.)



FLOOR CONSTRUCTION AT APARTMENTS & BATHROOMS (TYP.)



FLOOR CONSTRUCTION AT ROOF



Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
FLOOR TYPE SCHEDULE

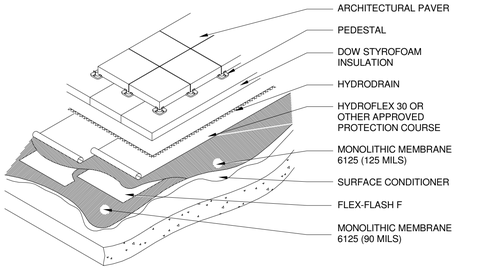
DWG #
A-606.00

Signature:

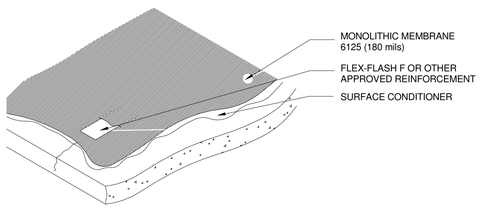
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039127 STATE OF NEW YORK

Date:	05/30/12
Scale:	1 1/2" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

NOTE:
THESE DETAILS WERE PREPARED TO SERVE AS A GUIDELINE, REPRESENTING TYPICAL DETAILING CONDITIONS. IT MAY BE NECESSARY TO MODIFY THESE DETAILS IN WHOLE OR IN PART DUE TO SPECIFIC JOBSITE CONDITIONS, DESIGN OR REQUIREMENTS. FOR REVIEW OF ANY ATYPICAL DETAILING CONDITIONS OR FOR SPECIFIC DETAILING REQUIREMENTS, CONSULT AMERICAN HYDROTECH, INC.

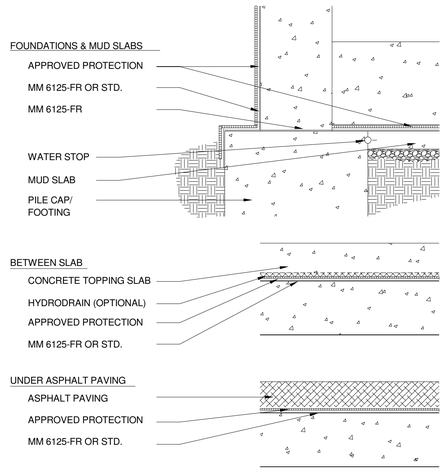


FABRIC REINFORCED ASSEMBLY
FOR NEW CONCRETE SUBSTRATES AND ALL REHAB APPLICATIONS



STANDARD ASSEMBLY
FOR NEW CONCRETE SUBSTRATES

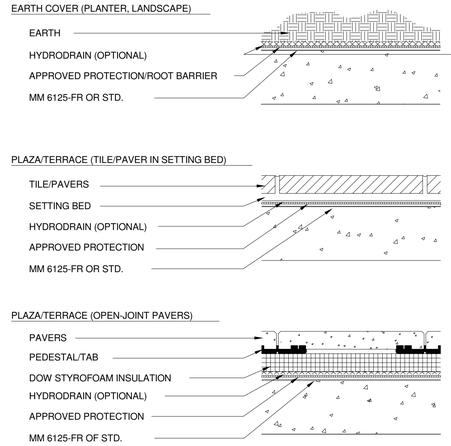
1 MATERIAL APPLICATION



NOTES: WHEN DOW STYROFOAM IS INSTALLED DIRECTLY UNDER AN IMPERVIOUS SURFACE (i.e., TOPPING SLAB, SETTING BED, ETC.) AN AIR LAYER (HYDRODRAIN) MUST BE INSTALLED ON TOP OF THE FOAM.

IF HYDRODRAIN OR INSULATION IS TO BE INSTALLED UNDER ASPHALT PAVEMENT A COMPACTED STONE BASE IS REQUIRED. CONTACT HYDROTECH FOR ADDITIONAL SUGGESTIONS REHARDING PLACEMENT OF ASPHALT PAVEMENT DIRECTLY OVER MM 6125.

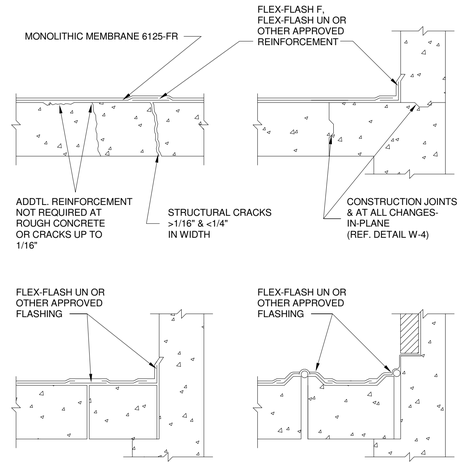
2 TYPICAL APPLICATION



NOTES: WHEN DOW STYROFOAM IS INSTALLED DIRECTLY UNDER AN IMPERVIOUS SURFACE (i.e., TOPPING SLAB, SETTING BED, ETC.) AN AIR LAYER (HYDRODRAIN) MUST BE INSTALLED ON TOP OF THE FOAM.

REFERENCE HYDROTECH'S TERRA PAVER GUIDELINE DETAILS FOR SPECIFIC PAVER APPLICATION DETAILS.

3 TYPICAL APPLICATION



EXPANSION JOINTS UP TO 1" IN WIDTH AND MAX. 50% TOTAL MOVEMENT ANTICIPATED

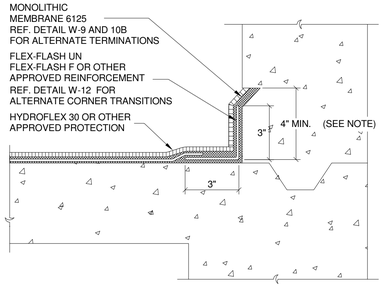
(REF. DETAIL W-6A)

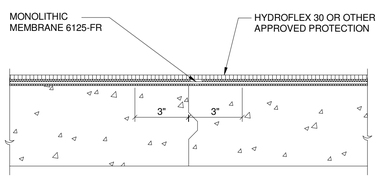
EXPANSION JOINTS 1" TO 2" IN WIDTH AND MAX. 50% TOTAL MOVEMENT ANTICIPATED

(REF. DETAILS W-6B, 6C, & 6D)

NOTES: FOR EXPANSION JOINTS GREATER THAN 2", EXPANSION JOINTS ANTICIPATING GREATER THAN 50% TOTAL MOVEMENT AND FOR SEISMIC EXPANSION JOINTS, THE USE OF PRE-FABRICATED, PROPRIETARY JOINT SYSTEMS SHOULD BE CONSIDERED. (REF. DETAILS W-6D)

4 GENERAL CONCRETE CRACK AND JOINT TREATMENT



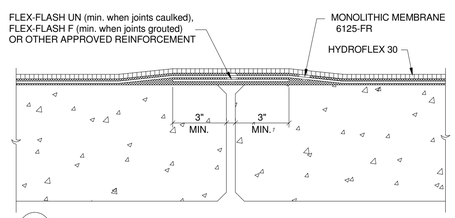


NOTES: IN COVERED/BURIED CONDITIONS, MM 6125 IS EXTENDED AS CONTINUOUS FLASHING AS HIGH AS POSSIBLE. FLASHING MUST BE TERMINATED NO LESS THAN 4" ABOVE SUBSTRATE.

REGLETS CAN BE CAST/FORMED OR CUT INTO THE CONCRETE. REGLETS SHOULD BE MIN. 1/2" DEEP AND PROVIDE AN EASY TRANSITION FOR THE MEMBRANE FLASHING.

ADDITIONAL REINFORCEMENT NOT REQUIRED AT TYPICAL CONSTRUCTION/ CONTROL JOINTS WITH THE FR (FABRIC REINFORCED) MEMBRANE ASSEMBLY.

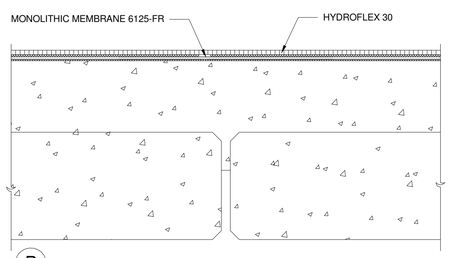
5 CONCRETE CONSTRUCTION JOINTS



A WITHOUT TOPPING SLAB

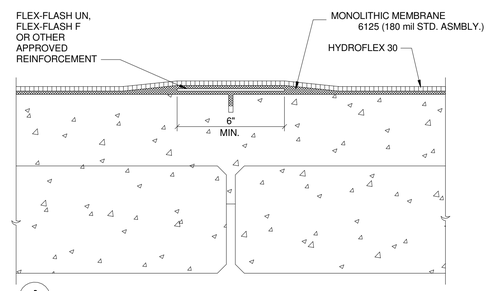
NOTES: JOINTS MUST BE GROUTED OR CAULKED FLUSH.

JOINT REINFORCING REQUIRED PRIOR TO APPLICATION OF STANDARD OR FABRIC REINFORCED MEMBRANE ASSEMBLY.

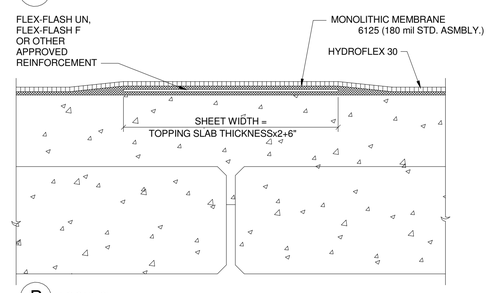


B WITH TOPPING SLAB

6 PRECAST CONCRETE PLANK/PANEL JOINT TREATMENT

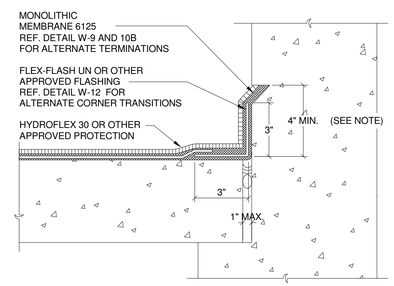


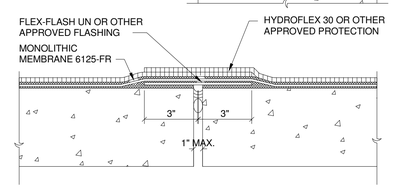
A SAW CUT TOPPING SLAB 1/4 SLAB THICKNESS



B NO SAW CUT

7 PRECAST PLANK/PANEL W/TOPPING SLAB JOINT TREATMENT





NOTES: DETAIL DESIGNED TO ACCOMMODATE MAX. 50% TOTAL MOVEMENT.

BACKER ROD AND SEALANT ARE REQUIRED IN JOINT PRIOR TO MM 6125/ FLEX-FLASH UN INSTALLATION.

IN COVERED/BURIED CONDITIONS, MM 6125 IS EXTENDED AS CONTINUOUS FLASHING AS HIGH AS POSSIBLE. FLASHING MUST BE TERMINATED NO LESS THAN 4" ABOVE SUBSTRATE. IN ADDITION, ADEQUATE PROTECTION MUST BE PROVIDED FOR FLASHING FROM SUBSEQUENT TOPPING/BACKFILL. (SEE W-6B) WHENEVER POSSIBLE THE EXPANSION JOINT SHOULD BE EXTENDED UP THROUGH ALL TOPPING LAYERS.

REGLETS CAN BE CAST/FORMED OR CUT INTO THE CONCRETE. REGLETS SHOULD BE MIN. 1/2" DEEP AND PROVIDE AN EASY TRANSITION FOR THE MEMBRANE FLASHING.

8 EXPANSION JOINTS UP TO 1" AS-BUILT WIDTH

Revision No.	Date	Remarks

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Mechanical Engineer:
TSF Engineering P.C.
George Skandalakis
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New York, NY 10003
PH: (212)253-7303 Fax: (212)253-6512

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ROOFING DETAILS

DWG #
A-800.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039812 STATE OF NEW YORK

Date:	05/21/12
Scale:	3" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

NOTE:
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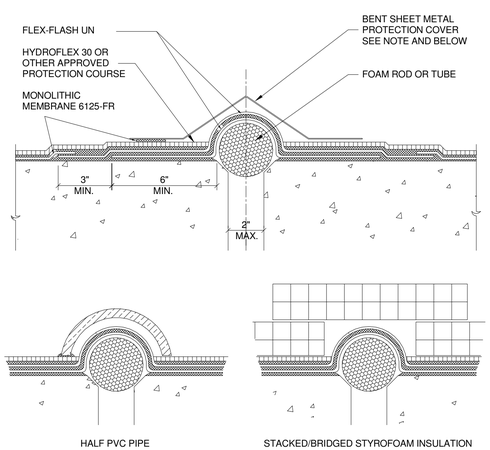
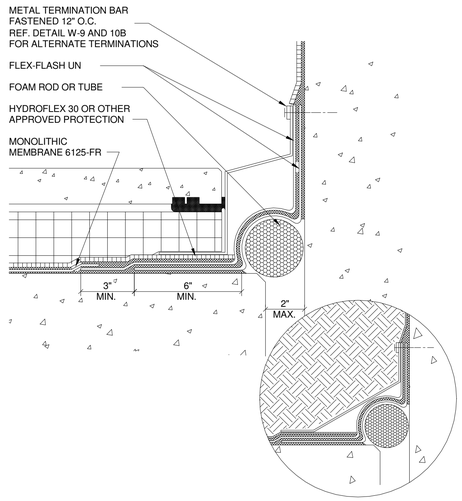


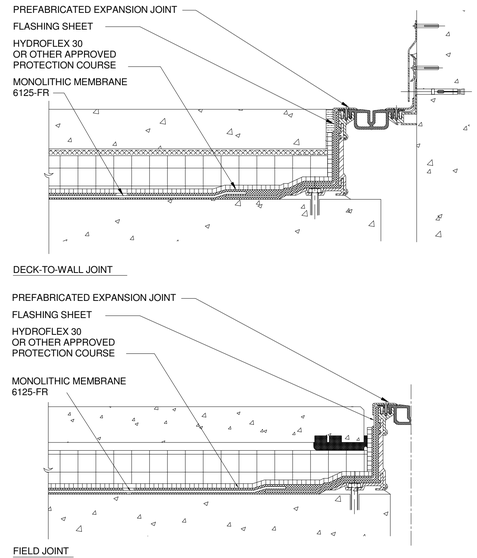
NOTES: DETAIL DESIGNED TO ACCOMMODATE MAXIMUM 50% TOTAL MOVEMENT.
BACKER ROD SHOULD BE A MINIMUM 1" LARGER IN DIAMETER THAN MAXIMUM AS-BUILT JOINT OPENING.
IN COVERED/BURIED CONDITIONS, ADEQUATE PROTECTION MUST BE PROVIDED FOR FLASHING FROM SUBSEQUENT TOPPING/BACKFILL. WHENEVER POSSIBLE THE EXPANSION JOINT SHOULD BE EXTENDED UP THROUGH ALL TOPPING LAYERS.

1 FILED EXPANSION JOINTS 1"-2" MAX. AS-BUILT WIDTHS



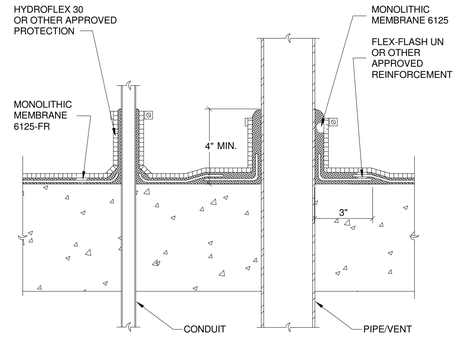
NOTES: DETAIL DESIGNED TO ACCOMMODATE MAXIMUM 50% TOTAL MOVEMENT.
BACKER ROD SHOULD BE A MINIMUM 1" LARGER IN DIAMETER THAN MAXIMUM AS-BUILT JOINT OPENING.
IN COVERED/BURIED CONDITIONS, ADEQUATE PROTECTION MUST BE PROVIDED FOR FLASHING FROM SUBSEQUENT TOPPING/BACKFILL. WHENEVER POSSIBLE THE EXPANSION JOINT SHOULD BE EXTENDED UP THROUGH ALL TOPPING LAYERS.

2 DECK-TO-WALL EXPANSION JOINTS 1"-2" MAX. AS-BUILT WIDTHS



NOTES: MANUFACTURERS OF PREFABRICATED EXPANSION JOINT SYSTEMS MUST BE CONSULTED FOR SPECIFIC PRODUCT AND INSTALLATION INFORMATION.

3 ALTERNATE PREFABRICATED EXPANSION JOINTS

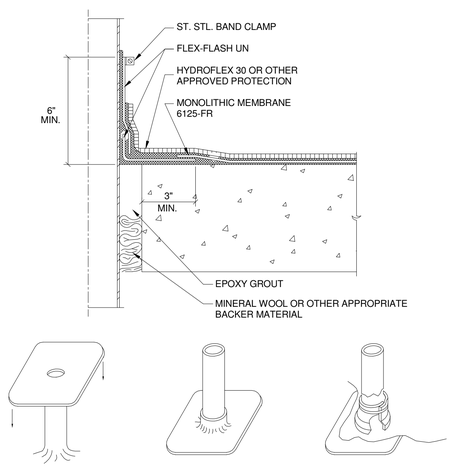


NOTES: SOME PIPE MATERIALS (PVC, COPPER, BRASS) MAY REQUIRE ROUGHENING/ SANDING, IN ADDITION TO PRIMING W/SURFACE CONDITIONER, FOR PROPER ADHESION OF MM 6125.

METAL PIPES MUST FREE OF ALL OIL AND RUST.

THE SAME DETAILING ABOVE WOULD BE EMPLOYED FOR PENETRATIONS THROUGH VERTICAL/FOUNDATION WALL APPLICATIONS.

4 TYP. CAST-IN-PLACE PENETRATIONS (PIPE, CONDUIT, ETC.)



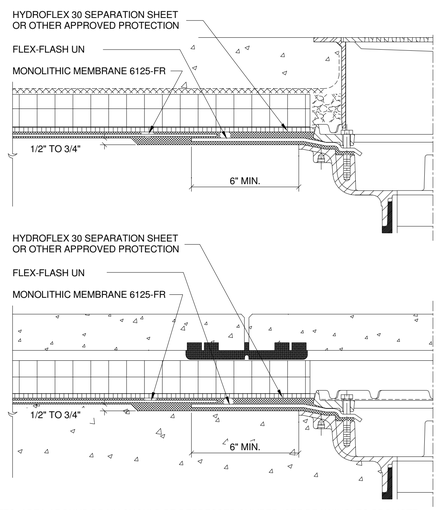
NOTES: PENETRATION MUST BE PROPERLY SECURED TO STRUCTURE TO PREVENT VERTICAL OR LATERAL MOVEMENT. EXPOSED DECK CLAMPS ARE NOT APPROPRIATE.

SOME PIPE MATERIALS (PVC, COPPER, BRASS) MAY REQUIRE ROUGHENING/ SANDING, IN ADDITION TO PRIMING W/SURFACE CONDITIONER FOR PROPER ADHESION OF MM6125.

METAL PIPES MUST BE FREE OF ALL OIL AND RUST.

THE SAME DETAILING ABOVE WOULD BE EMPLOYED FOR PENETRATIONS THROUGH VERTICAL/FOUNDATION WALL APPLICATIONS.

5 TYPICAL NON CAST-IN-PLACE PENETRATIONS (PIPE, VENT, ETC.)

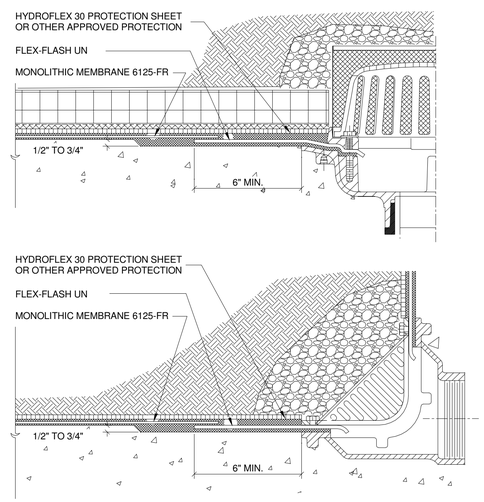


NOTES: AREA AROUND DRAIN SHOULD BE DEPRESSED/SUMPED (SEE DRAWING) TO PROMOTE POSITIVE WATER DRAINAGE.

REINFORCEMENT SHALL BE ONE SHEET EXTENDING A MINIMUM OF 6" BEYOND THE DRAIN FLANGE ON ALL SIDES AND SECURED IN CLAMPING RING AT DRAIN.

ALL DRAINS ARE REQUIRED TO HAVE FLASHING CLAMPING RING ASSEMBLIES. CONSULT SPECIFIC DRAIN MANUFACTURER FOR ADDL. ACCESSORIES (i.e., DEBRIS SCREENS, LOW-PROFILE DOMES, EXTENSIONS, ETC.)

6 TYPICAL DRAIN DETAILS

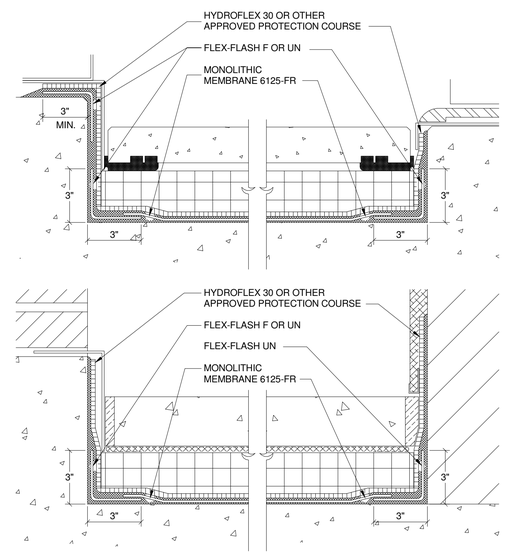


NOTES: AREA AROUND DRAIN SHOULD BE DEPRESSED/SUMPED (SEE DRAWING) TO PROMOTE POSITIVE WATER DRAINAGE.

REINFORCEMENT SHALL BE ONE SHEET EXTENDING A MINIMUM OF 6" BEYOND THE DRAIN FLANGE ON ALL SIDES AND SECURED IN CLAMPING RING AT DRAIN.

ALL DRAINS ARE REQUIRED TO HAVE FLASHING CLAMPING RING ASSEMBLIES. CONSULT SPECIFIC DRAIN MANUFACTURER FOR ADDL. ACCESSORIES (i.e., DEBRIS SCREENS, LOW-PROFILE DOMES, EXTENSIONS, ETC.)

7 TYPICAL DRAIN DETAILS



NOTE: FLEX-FLASH F MAY BE USED AT ALL CONCRETE-TO-CONCRETE AND CONCRETE-TO-CONCRETE BLOCK TRANSITIONS. FLEX-FLASH UN MUST BE USED AT ALL OTHER TRANSITIONS (i.e., CONC. DECK-TO-GYPSUM BOARD, ETC.).

8 TYPICAL CURB DETAILS

Revision No.	Date	Remarks

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Drawing scales as indicated are for reference only and are not intended to accurately depict actual or designed conditions. Written dimensions shall govern.

Project:
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Title:
ROOFING DETAILS

DWG #
A-801.00

Signature:
Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039812 STATE OF NEW YORK

Date:	05/21/12
Scale:	3" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

NOTE:
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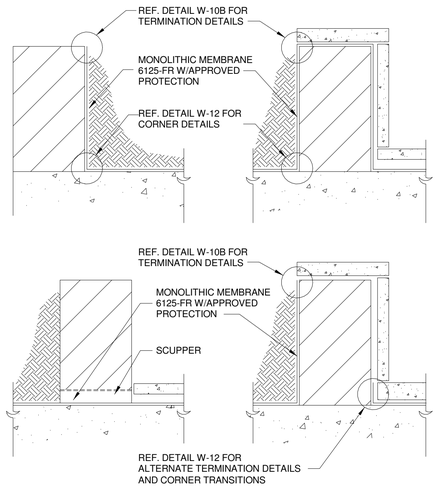
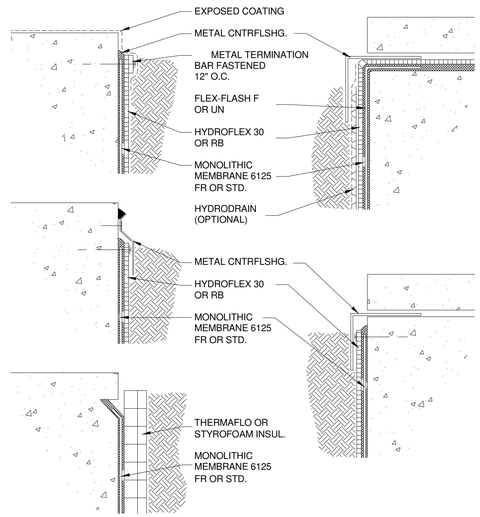


NOTES: WHEN PLANTER WALLS ARE CONSTRUCTED OF CONCRETE BLOCK (CMU), MM 6125 MUST BE INSTALLED IN FABRIC REINFORCED MEMBRANE ASSEMBLY.

APPROPRIATE PROTECTION MATERIALS INCLUDE HYDROFLEX 30, HYDROFLEX RB, STYROFOAM INSULATION, TERMAFLO INSULATION DRAINAGE PANELS. (SEE W-10B)

1 TYPICAL PLANTER DETAIL

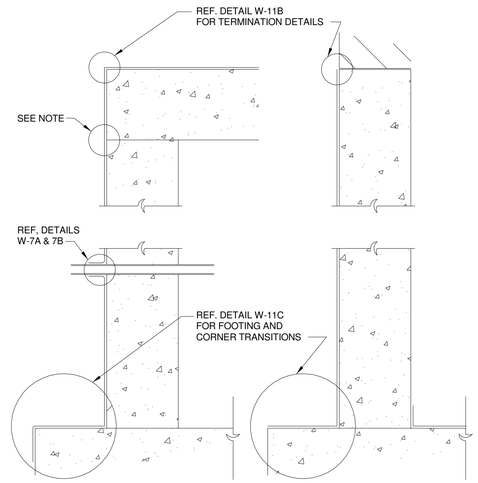


NOTES: WHEN PLANTER WALLS ARE CONSTRUCTED OF CONCRETE BLOCK (CMU), MM 6125 MUST BE INSTALLED IN FABRIC REINFORCED MEMBRANE ASSEMBLY.

IT WILL TYPICALLY BE NECESSARY TO MECHANICALLY FASTEN THE HYDROFLEX PROTECTION MATERIALS TO PREVENT SEPARATION/SLIPPING.

THE TERMINATION DETAILS DEPICTED ARE SOME OF THE MORE COMMON ENCOUNTERED. FOR ALTERNATIVE TERMINATION OPTIONS, CONTACT HYDROTECH.

2 TYPICAL PLANTER TERMINATION DETAIL

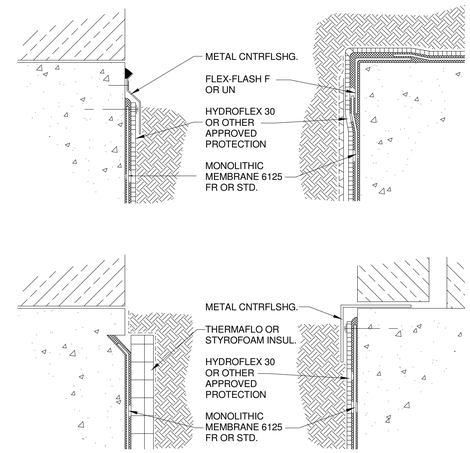


NOTES: WHEN FOUNDATION WALLS ARE CONSTRUCTED OF CONCRETE BLOCK (CMU), MM 6125 MUST BE INSTALLED IN FABRIC REINFORCED MEMBRANE ASSEMBLY.

APPROPRIATE PROTECTION MATERIALS INCLUDE HYDROFLEX 30, HYDROFLEX RB, STYROFOAM INSULATION, TERMAFLO INSULATION DRAINAGE PANELS. (SEE W-11B AND 11C)

ALL COLD/CONSTRUCTION JOINTS MUST BE REINFORCED WITH FLEX-FLASH F OR FLEX-FLASH UN.

3 TYPICAL FOUNDATION WALL APPLICATIONS



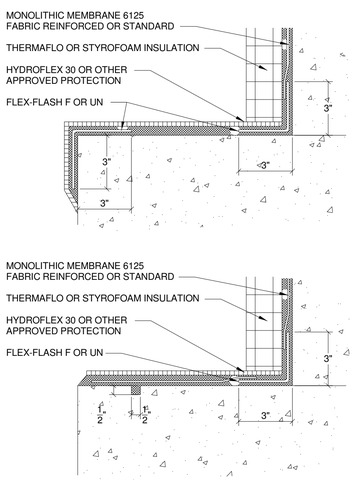
NOTES: WHEN FOUNDATION WALLS ARE CONSTRUCTED OF CONCRETE BLOCK (CMU), MM 6125 MUST BE INSTALLED IN FABRIC REINFORCED MEMBRANE ASSEMBLY.

IT WILL TYPICALLY BE NECESSARY TO MECHANICALLY FASTEN THE HYDROFLEX PROTECTION MATERIALS TO PREVENT SEPARATION/SLIPPING.

THE TERMINATION DETAILS DEPICTED ARE SOME OF THE MORE COMMON ENCOUNTERED. FOR ALTERNATIVE TERMINATION OPTIONS, CONTACT HYDROTECH.

REGLETS CAN BE CAST/FORMED OR CUT INTO THE CONCRETE. REGLETS SHOULD BE MIN. 1/2" DEEP AND PROVIDE AN EASY TRANSITION FOR THE MEMBRANE FLASHING.

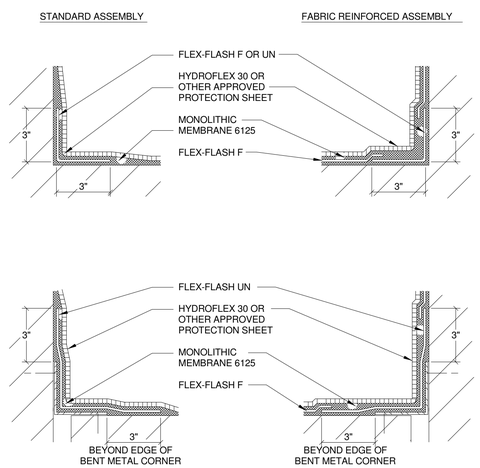
4 TYPICAL FOUNDATION WALL DETAILING AT GRADE



NOTES: WHEN FOUNDATION WALLS ARE CONSTRUCTED OF CONCRETE BLOCK (CMU), MM 6125 MUST BE INSTALLED IN FABRIC REINFORCED MEMBRANE ASSEMBLY.

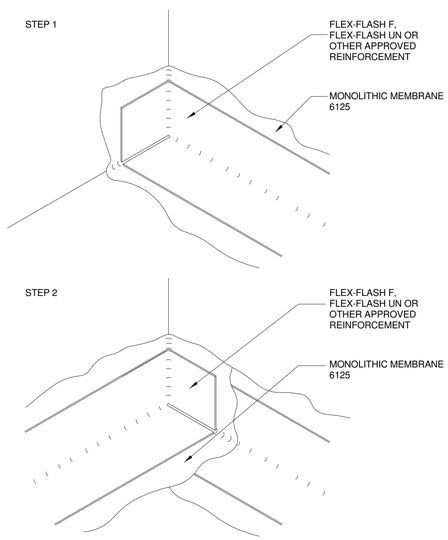
WHEN THE FACE OF THE FOOTING IS NOT ACCESSIBLE, A 1/2" X 1/2" SHOULD BE CUT/FORMED INTO THE FOOTING TO PROVIDE A WATER STOP FOR THE MEMBRANE.

5 TYPICAL FOUNDATION WALL DETAILING AT FOOTING



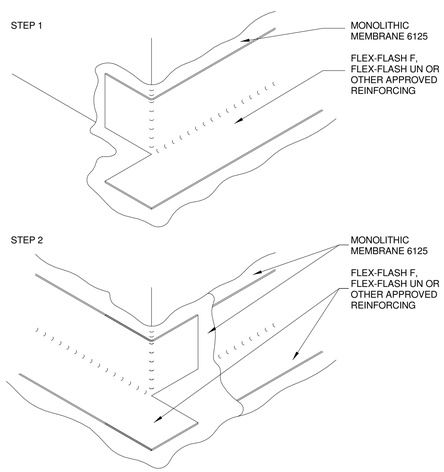
NOTE: FLEX-FLASH F MAY BE USED AT ALL CONCRETE-TO-CONCRETE AND CONCRETE-TO-CONCRETE BLOCK TRANSITIONS. FLEX-FLASH UN MUST BE USED AT ALL OTHER TRANSITIONS.

6 ALTERNATE CORNER TRANSITIONS



STEP 3 COMPLETELY ENCAPSULATE ALL EXPOSED REINFORCING WITH A TOP COATING OF MONOLITHIC MEMBRANE 6125. NO REINFORCING SHOULD BE LEFT EXPOSED OVERNIGHT.

7 INSIDE CORNER REINFORCEMENT



STEP 3 COMPLETELY ENCAPSULATE ALL EXPOSED REINFORCING WITH A TOP COATING OF MONOLITHIC MEMBRANE 6125. NO REINFORCING SHOULD BE LEFT EXPOSED OVERNIGHT.

8 OUTSIDE CORNER REINFORCEMENT

Revision No.	Date	Remarks

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Title:
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DWG #
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Signature:
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Scale: 3" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

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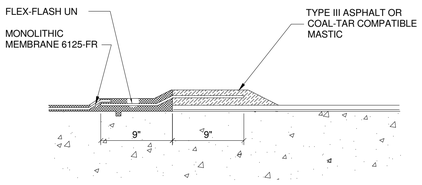
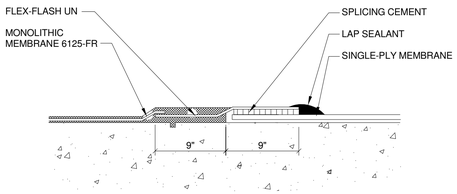


BUILT UP MEMBRANE (ASPHALT OR COAL TAR)

NOTE: CHECK WITH OTHER WATERPROOFING MATERIAL SUPPLIER FOR SPECIFIC TIE-IN INSTRUCTIONS.

FOR HORIZONTAL TIE-INS, A 1/2" X 1/2" REGLET MUST BE CUT INTO THE DECK TO PROVIDE A WATER STOP FOR THE MEMBRANE.

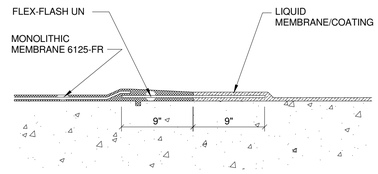


SINGLE-PLY MEMBRANE

NOTE: CHECK WITH OTHER WATERPROOFING MATERIAL SUPPLIER FOR SPECIFIC TIE-IN INSTRUCTIONS.

FOR HORIZONTAL TIE-INS, A 1/2" X 1/2" REGLET MUST BE CUT INTO THE DECK TO PROVIDE A WATER STOP FOR THE MEMBRANE.

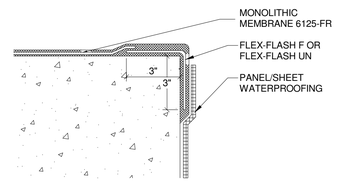
1 TYPICAL TIE-IN DETAIL



LIQUID MEMBRANE/COATING

NOTE: CHECK WITH OTHER WATERPROOFING MATERIAL SUPPLIER FOR SPECIFIC TIE-IN INSTRUCTIONS.

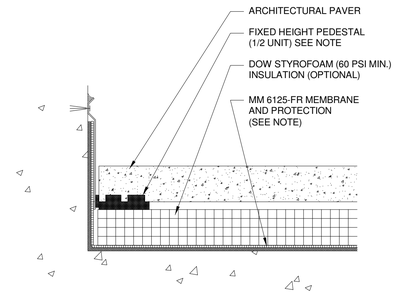
FOR HORIZONTAL TIE-INS, A 1/2" X 1/2" REGLET MUST BE CUT INTO THE DECK TO PROVIDE A WATER STOP FOR THE MEMBRANE.



VERTICAL WALL

NOTE: CHECK WITH OTHER WATERPROOFING MATERIAL SUPPLIER FOR SPECIFIC TIE-IN INSTRUCTIONS.

2 TYPICAL FLASH DETAIL TERMINATION DETAIL



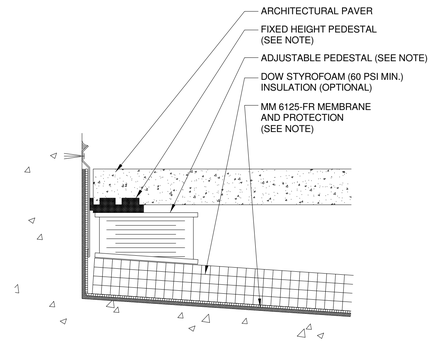
NOTES: IF DOW STYROFOAM INSULATION IS USED, IT MUST BE 60 PSI (COMPRESSIVE STRENGTH) BOARD MINIMUM.

THE PEDESTAL SHOWN IS 1/2 A TYPICAL UNIT, WITH THE TRANSVERSE SPACER LUGS LEFT INTACT TO MAINTAIN THE APPROPRIATE JOINT SPACE AT TERMINATION.

MINOR LEVEL ADJUSTMENTS CAN BE MADE BY PLACING SHIMS UNDERNEATH THE PEDESTAL. SHIMS PLACED ON TOP OF THE PEDESTAL MUST NOT EXCEED THE HEIGHT OF THE SPACER LUGS.

REFER TO APPLICABLE MM 6125-FR ROOFING OR WATERPROOFING GUIDELINE DETAILS FOR PROPER MEMBRANE/FLASHING DETAILS AND ALTERNATIVES.

3 TYPICAL TERMINATION AT WALL/ PARAPET/ CURB



NOTES: IF DOW STYROFOAM INSULATION IS USED, IT MUST BE 60 PSI (COMPRESSIVE STRENGTH) BOARD MINIMUM.

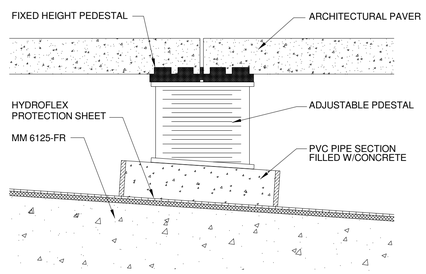
THE FIXED HEIGHT PEDESTAL SHOWN IS 1/2 A TYPICAL UNIT, WITH THE TRANSVERSE SPACER LUGS LEFT INTACT TO MAINTAIN THE JOINT SPACE AT TERMINATION.

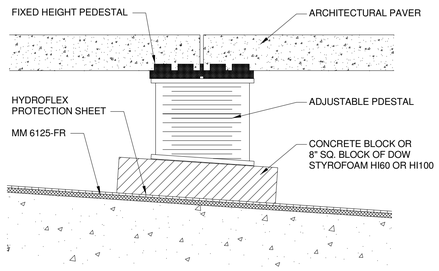
VARIOUS ADJUSTABLE PEDESTAL SYSTEMS ARE AVAILABLE, ALLOWING HEIGHT ADJUSTMENTS >2" - SOME HAVE INTEGRAL JOINT SPACERS, ELIMINATING THE NEED FOR FIXED HEIGHT PEDESTALS ON TOP.

ADJUSTMENTS FOR SLOPE CAN BE MADE IN A NUMBER OF WAYS DEPENDING UPON THE ADJUSTABLE PEDESTAL SYSTEM USED. SHIMS ARE USED FOR MINOR LEVEL ADJUSTMENTS.

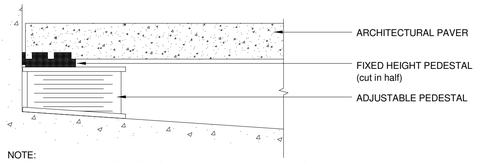
REFER TO APPLICABLE MM 6125-FR ROOFING OR WATERPROOFING GUIDELINE DETAILS FOR PROPER MEMBRANE/FLASHING DETAILS AND ALTERNATIVES.

4 TYPICALTERM. W/ ADJUST. PEDESTAL AT WALL / PARAPET/ CURB

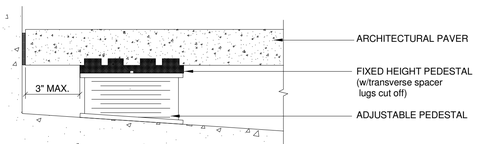




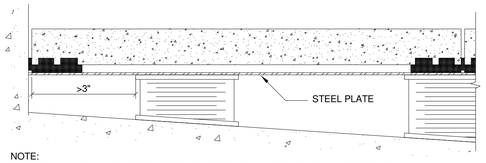
5 ADDITIONAL PEDESTAL EXTENSION MATERIALS



NOTE:
AT TYPICAL TERMINATION POINTS, THE ADJUSTABLE PEDESTALS ARE PLACED SUCH THAT 1/2 OF A FIXED HEIGHT PED. MAY BE BUTTED UP TO THE STRUCTURE (curb, wall, etc.).



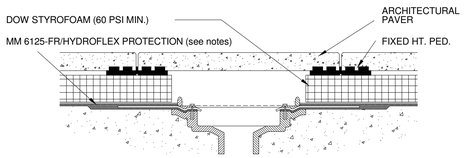
NOTE:
IF NECESSARY, THE PAVER MAY BE CANTILEVERED OUT PAST THE LAST ROW OF SUPPORTS. THE CANTILEVER SHOULD NOT EXCEED 3" W/O ADDITIONAL SUPPORT. PROPER EXPANSION/BUFFER MATERIAL SHOULD BE PLACED BETWEEN PAVER AND FLASHING.



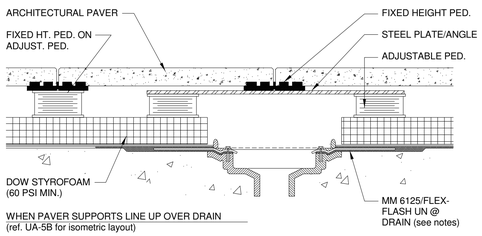
NOTE:
WHEN THE LAST PAVER NEEDS TO CANTILEVER > 3", A STEEL PLATE, 5" X 26" X 3/8", SHOULD BE LAID TO BRIDGE BETWEEN THE LAST 2 ADJUST. PED. FIXED HEIGHT PEDS. ARE THEN PLACED ON TOP OF THE STEEL PLATE TO SUPPORT AND SPACE THE PAVERS.

THE HEIGHT OF THE LAST 2 ROWS OF ADJUST. PEDS. NEEDS TO BE LOWERED, BY THE THICKNESS OF THE STEEL PLATE.

6 CANTILEVERED TERMINATION



WHEN PAVER SUPPORTS CAN BE PLACED AROUND THE DRAIN



WHEN PAVER SUPPORTS LINE UP OVER DRAIN
(ref. UA-5B for isometric layout)

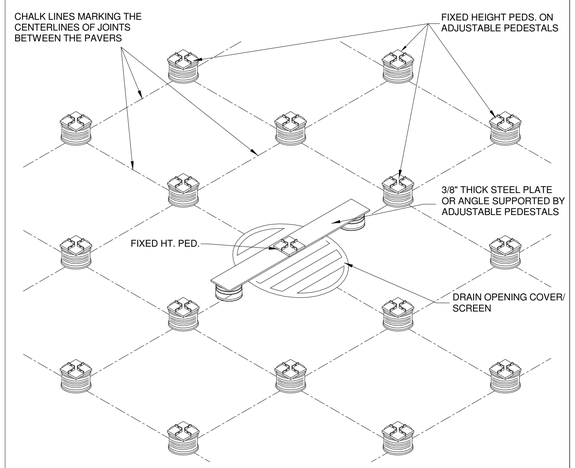
NOTES: IF DOW STYROFOAM INSULATION IS USED, IT MUST BE 60 PSI (COMPRESSIVE STRENGTH) BOARD MINIMUM.

VARIOUS ADJUSTABLE PEDESTAL SYSTEMS ARE AVAILABLE, ALLOWING HEIGHT ADJUSTMENTS >2" - SOME HAVE INTEGRAL JOINT SPACERS, ELIMINATING THE NEED FOR FIXED HEIGHT PEDESTALS ON TOP.

ADJUSTMENTS FOR SLOPE CAN BE MADE IN A NUMBER OF WAYS DEPENDING UPON THE ADJUSTABLE PEDESTAL SYSTEM USED. SHIMS ARE USED FOR MINOR LEVEL ADJUSTMENTS.

REFER TO APPLICABLE MM 6125-FR ROOFING OR WATERPROOFING GUIDELINE DETAILS FOR PROPER MEMBRANE/FLASHING DETAILS AND ALTERNATIVES.

7 INSTALLATION DETAIL AT DRAIN



NOTE: THE ADJUSTABLE PEDESTALS THAT ARE PLACED TO SUPPORT THE STEEL PLATE MUST BE SET TO THE HEIGHT OF THE SURROUNDING PEDESTALS, MINUS THE THICKNESS OF THE STEEL PLATE.

8 INSTALLATION AT DRAIN ISOMETRIC LAYOUT

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
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BROOKLYN N.Y. 11222

Title:
ROOFING DETAILS

DWG #
A-803.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039812 STATE OF NEW YORK

Date:	05/21/12
Scale:	3" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

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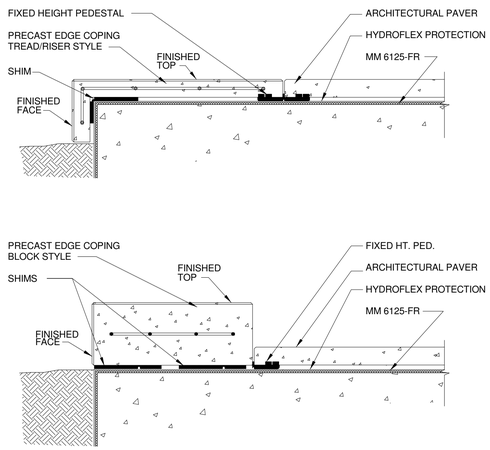
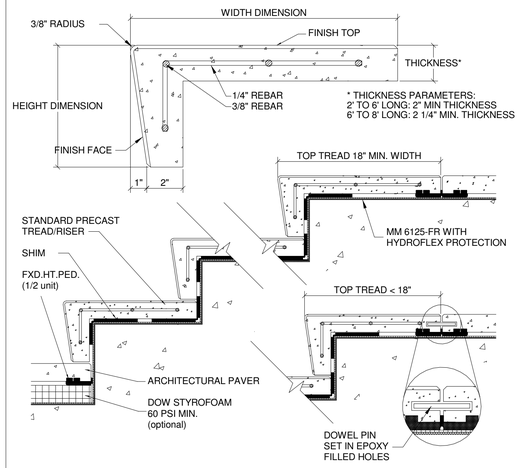


NOTES: PRECAST PIECES ARE MANUFACTURED TO CLOSELY RESEMBLE PAVER FINISHES. PLEASE CONSULT HYDROTECH FOR AVAILABLE FINISHES. PRECAST PIECES CAN BE MANUFACTURED TO MAX. 8' LENGTHS.

IF DOW STYROFOAM INSULATION IS USED, IT MUST BE 60 PSI (COMPRESSIVE STRENGTH) BOARD MINIMUM.

REFER TO APPLICABLE MM 6125-FR ROOFING OR WATERPROOFING GUIDELINE DETAILS FOR PROPER MEMBRANE/FLASHING DETAILS AND ALTERNATIVES.

1 ALTERNATE DECK EDGE TERMINATIONS

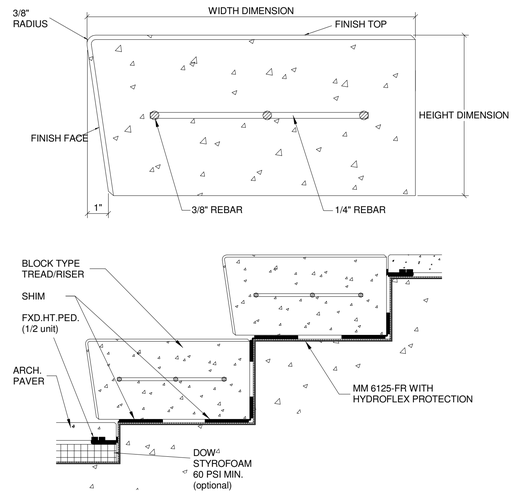


NOTES: WHEN THE TOP TREADS ARE MINIMUM 18" WIDE, THEY MAY BE SIMPLY PEDESTAL SET. IF THE TOP TREAD IS LESS THAN 18" IT MUST BE PINNED TO THE PAVER OR MORTAR SET.

PRECAST PIECES ARE MANUFACTURED TO CLOSELY RESEMBLE PAVER FINISHES. PLEASE CONSULT HYDROTECH FOR AVAILABLE FINISHES. PRECAST PIECES CAN BE MANUFACTURED TO MAX. 8' LENGTHS.

REFER TO APPLICABLE MM 6125-FR ROOFING OR WATERPROOFING GUIDELINE DETAILS FOR PROPER MEMBRANE/FLASHING DETAILS AND ALTERNATIVES.

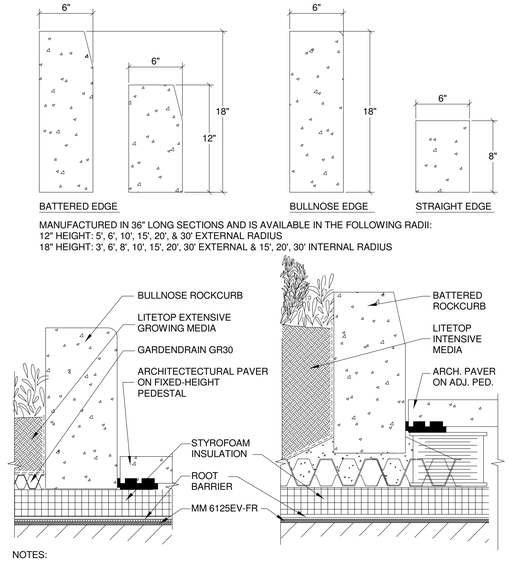
2 STANDARD PRECAST TREAD / RISER



NOTES: PRECAST PIECES ARE MANUFACTURED TO CLOSELY RESEMBLE PAVER FINISHES. PLEASE CONSULT HYDROTECH FOR AVAILABLE FINISHES. PRECAST PIECES CAN BE MANUFACTURED TO MAX. 8' LENGTHS.

REFER TO APPLICABLE MM 6125-FR ROOFING OR WATERPROOFING GUIDELINE DETAILS FOR PROPER MEMBRANE/FLASHING DETAILS AND ALTERNATIVES.

3 BLOCK TYPE TREAD / RISER



MANUFACTURED IN 36" LONG SECTIONS AND IS AVAILABLE IN THE FOLLOWING RADII:
12" HEIGHT: 5', 6', 10', 15', 20', & 30' EXTERNAL RADIUS
18" HEIGHT: 3', 6', 8', 10', 15', 20', 30' EXTERNAL & 15', 20', 30' INTERNAL RADIUS

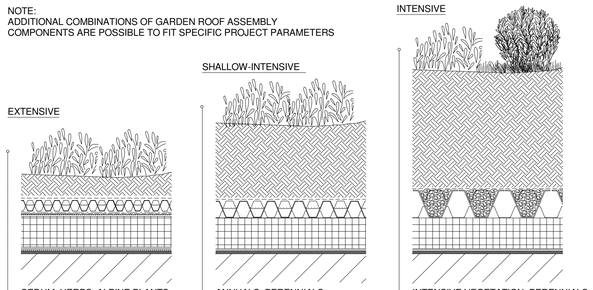
NOTES:

ROCKCURB IS AVAILABLE IN STANDARD HANOVER TUDOR FINISH AND COLORS.

REFER TO APPLICABLE MM 6125-FR ROOFING/WATERPROOFING AND GARDEN ROOF ASSEMBLY GUIDELINE DETAILS FOR PROPER MEMBRANE/FLASHING DETAILS AND ALTERNATIVES AND GARDEN ROOF ASSEMBLY COMPONENT DETAILS AND ALTERNATIVES.

4 ROCK CURB STANDARD PRECAST

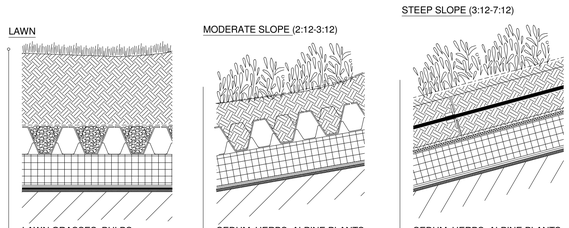
NOTE:
ADDITIONAL COMBINATIONS OF GARDEN ROOF ASSEMBLY COMPONENTS ARE POSSIBLE TO FIT SPECIFIC PROJECT PARAMETERS



EXTENSIVE	SHALLOW-INTENSIVE	INTENSIVE
SEDUM, HERBS, ALPINE PLANTS	ANNUALS, PERENNIALS, SMALL WOODY PLANTS	INTENSIVE VEGETATION: PERENNIALS SHRUBS, SMALL TREES
LITETOP EXTENSIVE MEDIA (3"-6")	LITETOP SEMI-INTENSIVE MEDIA (6"-10")	LITETOP INTENSIVE MEDIA (10"+)
SYSTEMFILTER	SYSTEMFILTER	SYSTEMFILTER
GARDENDRAIN GR15 OR GR30	GARDENDRAIN GR30 OR GR50 (filled w/lt.wt. aggregate)	GARDENDRAIN GR50 (filled w/lt.wt. aggregate)
MOISTURE MAT (AS REQUIRED)	STYROFOAM INSULATION	STYROFOAM INSULATION
HYDRODRAIN (AS REQUIRED)	HYDROFLEX RB OR HYDROFLEX 30 & ROOT STOP HD	HYDROFLEX RB OR HYDROFLEX 30 & ROOT STOP HD
STYROFOAM INSULATION	MM 6125EV-FR	MM 6125EV-FR
HYDROFLEX 30 & ROOT STOP	SUBSTRATE (concrete, gyp.bd., plywood)	SUBSTRATE (concrete, gyp.bd., plywood)
MM 6125EV-FR		
SUBSTRATE (concrete, gyp.bd., plywood)		

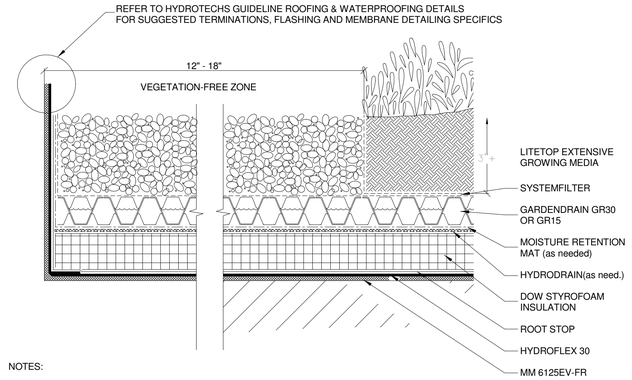
5 TYP. STANDARD GARDEN ROOF ASSEMBLIES

NOTE:
ADDITIONAL COMBINATIONS OF GARDEN ROOF ASSEMBLY COMPONENTS ARE POSSIBLE TO FIT SPECIFIC PROJECT PARAMETERS



LAWN	MODERATE SLOPE (2:12-3:12)	STEEP SLOPE (3:12-7:12)
LAWN GRASSES, BULBS	SEDUM, HERBS, ALPINE PLANTS	SEDUM, HERBS, ALPINE PLANTS
LITETOP LAWN MEDIA (6"-10")	GARDMAT EROSION BLANKET	GARDMAT EROSION BLANKET
SYSTEMFILTER	LITETOP EXTENSIVE MEDIA (3"-4")	GARDNET INFILLED WITH LITETOP EXTENSIVE MEDIA (4"-13")
GARDENDRAIN GR30 OR GR50 (filled w/lt.wt. aggregate)	GARDENDRAIN GR50 (media directly in cups)	HYDRODRAIN 302
STYROFOAM INSULATION	STYROFOAM INSULATION	STYROFOAM INSULATION
HYDROFLEX 30 & ROOT STOP	HYDROFLEX RB	HYDROFLEX RB
MM 6125EV-FR	MM 6125EV-FR	MM 6125EV-FR
SUBSTRATE (concrete, gyp.bd., plywood)	SUBSTRATE (concrete, gyp.bd., plywood)	SUBSTRATE (concrete, gyp.bd., plywood)

6 TYP. STANDARD GARDEN ROOF ASSEMBLIES



NOTES:

ROOT STOP IS LOOSE LAID OVER THE HYDROFLEX 30 AND LAPPED A MINIMUM OF 5' OR 1' WITH LAPS TAPED.

IF INSULATION IS NOT INSTALLED, THE HYDRODRAIN AIR LAYER MAY BE OMITTED. HYDRODRAIN IS REQUIRED WHENEVER MOISTURE RETENTION MAT IS TO BE INSTALLED OVER THE INSULATION

THE VEGETATION-FREE ZONE MAY BE COMPOSED OF TYPICAL STONE BALLAST OR CONCRETE PAVERS. CONTACT HYDROTECH FOR BALLAST DESIGN REQUIREMENTS. V-F ZONES ARE REQUIRED AT ALL ROOF PERIMETERS AND ALL PENETRATIONS (PIPES, SKYLIGHTS, ETC.). METAL EDGE RESTRAINT, CONCRETE CURBS, LANDSCAPE TIMBERS, ETC. MAY BE USED AT V-F ZONE/GROWING MEDIA TRANSITIONS.

7 TYP. EXTENSIVE GARDEN ROOF TERMINATION (WALL,CURB,PIPE)

Revision No.	Date	Remarks

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ROOFING DETAILS

DWG.#
A-804.00

Signature:
Seal:
REGISTERED ARCHITECT TAMAR KISILEVITZ 039812 STATE OF NEW YORK

Date:	05/21/12
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Job #	32157
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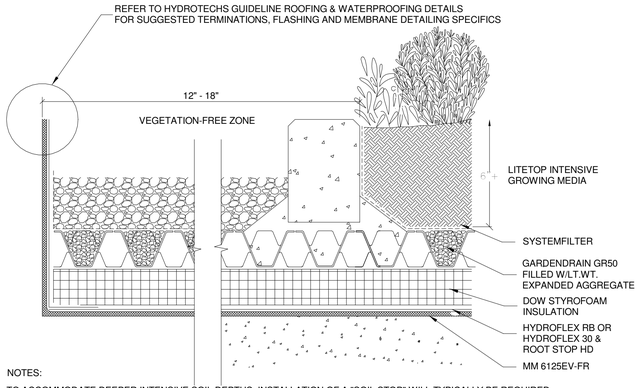
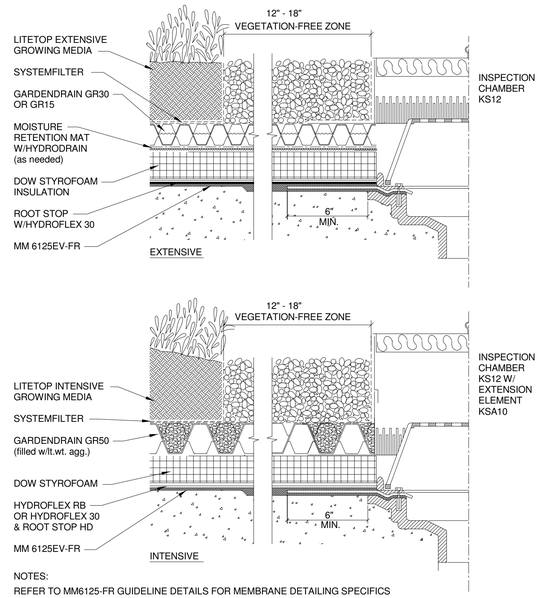


NOTES:

TO ACCOMMODATE DEEPER INTENSIVE SOIL DEPTHS, INSTALLATION OF A "SOIL STOP" WILL TYPICALLY BE REQUIRED. THE SOIL STOP CAN BE PRECAST OR POURED-IN-PLACE CONCRETE CURBS, LANDSCAPING TIMBERS, ETC. IF SECUREMENT OF THE SOIL STOP IS NECESSARY, A CONCRETE FOOTING CAN BE POURED USING THE GR50 AS THE FORM.

THE VEGETATION-FREE ZONE MAY BE COMPOSED OF TYPICAL STONE BALLAST OR CONCRETE PAVERS. CONTACT HYDROTECH FOR BALLAST DESIGN REQUIREMENTS. V-F ZONES ARE REQUIRED AT ALL ROOF PERIMETERS AND ALL PENETRATIONS (PIPES, SKYLIGHTS, ETC.). METAL EDGE RESTRAINT, CONCRETE CURBS, LANDSCAPE TIMBERS, ETC. MAY BE USED AT V-F ZONE/GROWING MEDIA TRANSITIONS.

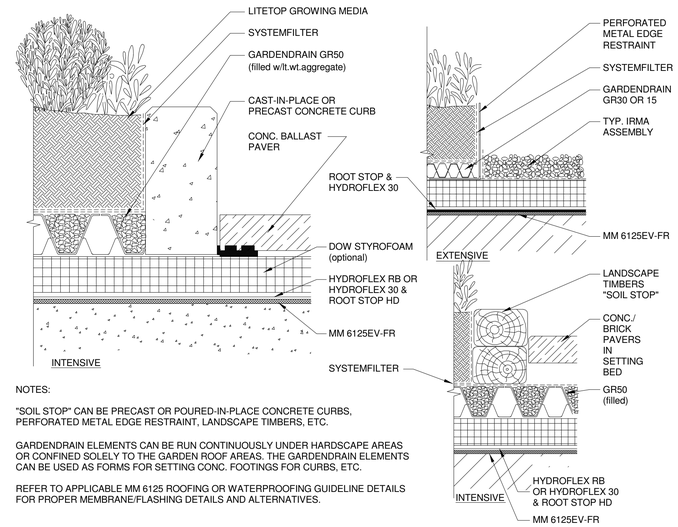
1 TYP. INTENSIVE GARDEN ROOF TERMINATION (WALL,CURB,PIPE)



NOTES:

REFER TO MM6125-FR GUIDELINE DETAILS FOR MEMBRANE DETAILING SPECIFICS

2 TYPICAL DRAIN



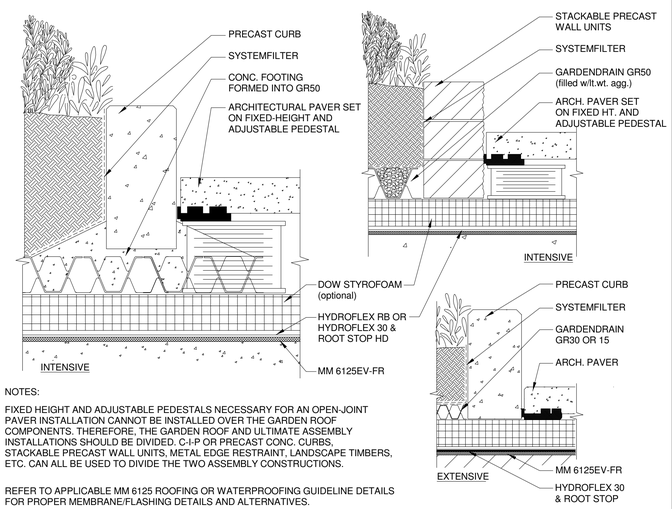
NOTES:

"SOIL STOP" CAN BE PRECAST OR POURED-IN-PLACE CONCRETE CURBS, PERFORATED METAL EDGE RESTRAINT, LANDSCAPE TIMBERS, ETC.

GARDENDRAIN ELEMENTS CAN BE RUN CONTINUOUSLY UNDER HARDSCAPE AREAS OR CONFINED SOLELY TO THE GARDEN ROOF AREAS. THE GARDENDRAIN ELEMENTS CAN BE USED AS FORMS FOR SETTING CONC. FOOTINGS FOR CURBS, ETC.

REFER TO APPLICABLE MM 6125 ROOFING OR WATERPROOFING GUIDELINE DETAILS FOR PROPER MEMBRANE/FLASHING DETAILS AND ALTERNATIVES.

3 GENERIC TRANSITION OPTIONS - SOFTSCAPE- TO-HARDSCAPE

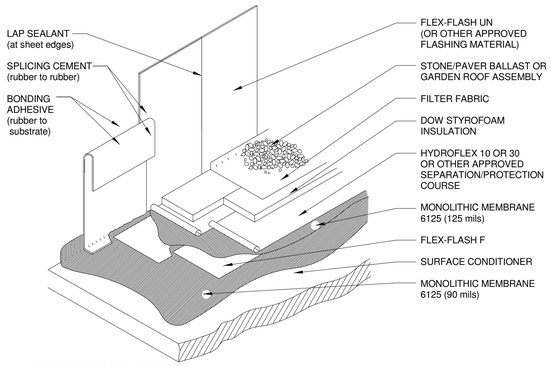


NOTES:

FIXED HEIGHT AND ADJUSTABLE PEDESTALS NECESSARY FOR AN OPEN-JOINT PAVER INSTALLATION CANNOT BE INSTALLED OVER THE GARDEN ROOF COMPONENTS. THEREFORE, THE GARDEN ROOF AND ULTIMATE ASSEMBLY INSTALLATIONS SHOULD BE DIVIDED. C-I-P OR PRECAST CONC. CURBS, STACKABLE PRECAST WALL UNITS, METAL EDGE RESTRAINT, LANDSCAPE TIMBERS, ETC. CAN ALL BE USED TO DIVIDE THE TWO ASSEMBLY CONSTRUCTIONS.

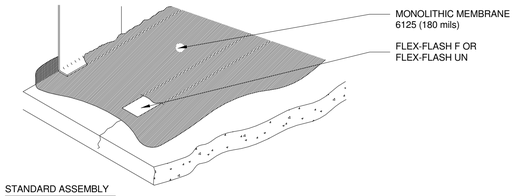
REFER TO APPLICABLE MM 6125 ROOFING OR WATERPROOFING GUIDELINE DETAILS FOR PROPER MEMBRANE/FLASHING DETAILS AND ALTERNATIVES.

4 TYP. TRANSITION OPTIONS - GARDEN ROOF/ ULTIMATE ASSEMBLY



FABRIC REINFORCED ASSEMBLY

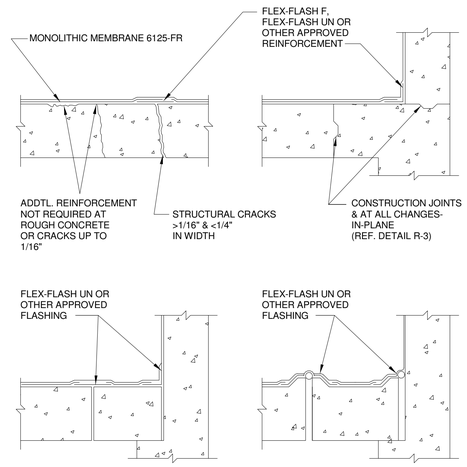
FOR NEW CONCRETE, ALL REHAB APPLICATIONS, TONGUE & GROOVE PLYWOOD OR GYPSUM BOARD (i.e., DENSDECK) ON METAL DECK SUBSTRATES.



STANDARD ASSEMBLY

FOR NEW CONCRETE SUBSTRATES

5 MATERIAL APPLICATION



NOTES: FOR EXPANSION JOINTS GREATER THAN 2", EXPANSION JOINTS ANTICIPATING GREATER THAN 50% TOTAL MOVEMENT AND FOR SEISMIC EXPANSION JOINTS, THE USE OF PRE-FABRICATED, PROPRIETARY JOINT SYSTEMS SHOULD BE CONSIDERED. (REF. DETAILS R-6C AND R-6D)

6 GENERAL CRACK AND JOINT TREATMENT

Revision No.	Date	Remarks

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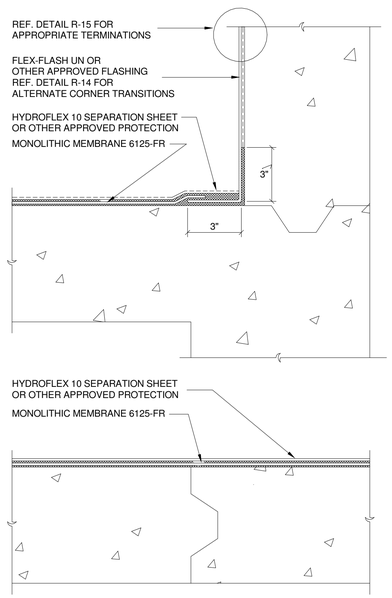
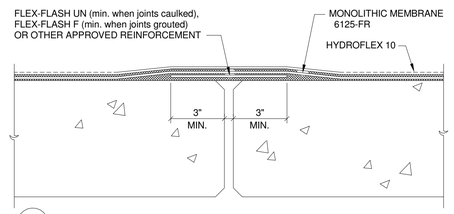


NOTE: ADDITIONAL REINFORCEMENT NOT REQUIRED AT TYPICAL CONSTRUCTION/ CONTROL JOINTS WITH THE FR (FABRIC REINFORCED) MEMBRANE ASSEMBLY.

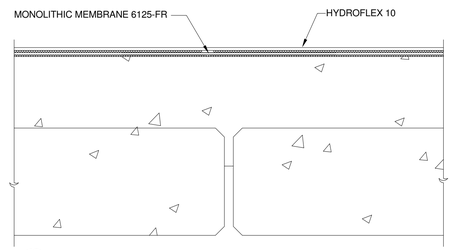
1 CONCRETE CONSTRUCTION JOINTS



WITHOUT TOPPING SLAB

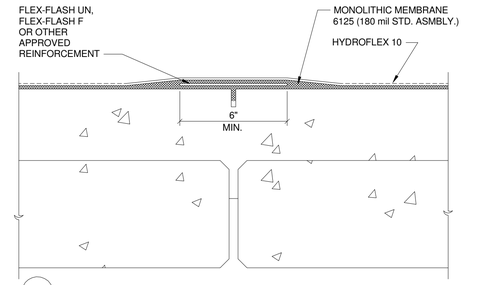
NOTES: JOINTS MUST BE GROUTED OR CAULKED FLUSH.

JOINT REINFORCING REQUIRED PRIOR TO APPLICATION OF STANDARD OR FABRIC REINFORCED MEMBRANE ASSEMBLY.

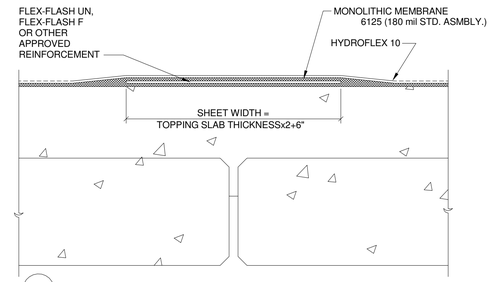


WITH TOPPING SLAB

2 PRECAST CONCRETE PLANK/ PANEL JOINT TREATMENT

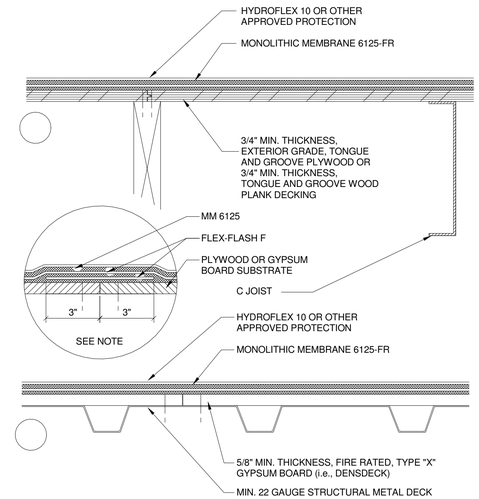


SAW CUT TOPPING SLAB 1/4 SLAB THICKNESS



NO SAW CUT

3 PRECAST PLANK DECK W/TOP SLAB JOINT TREATMENT

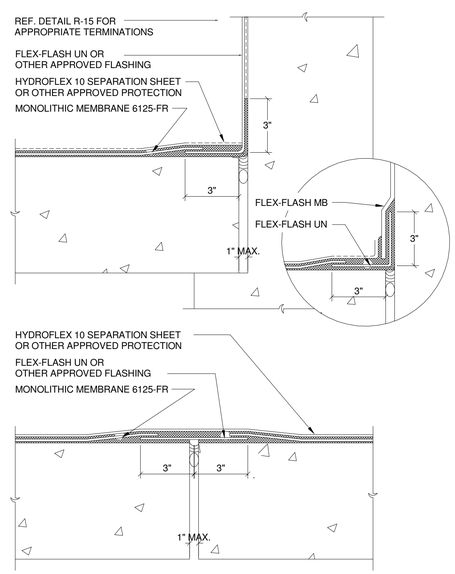


NOTES: ADEQUATE STRUCTURAL SUPPORTS AND THE NUMBER AND TYPE OF FASTENERS REQUIRED TO COMPLY WITH APPLICABLE CODES, SHOULD BE DETERMINED AND VERIFIED BY PROJECT ARCHITECT/ENGINEER.

ADDITIONAL REINFORCING (MM 6125 W/6" WIDE FLEX-FLASH F) IS REQUIRED OVER SUBSTRATE BOARD JOINTS FOR EXTENDED (10+ YEARS) WARRANTIES. (SEE INSET DETAIL)

THE FR (FABRIC REINFORCED) MEMBRANE ASSEMBLY IS ALSO REQUIRED IN ANY REHAB/RETROFIT APPLICATION AND MAY ALSO BE USED ON NEW CONCRETE.

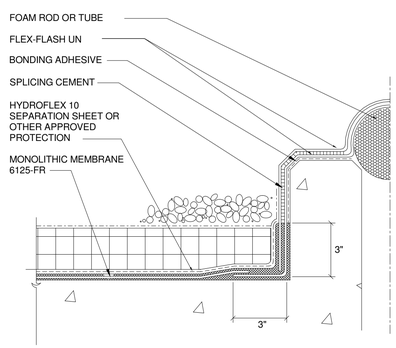
4 ALTERNATE SUBSTRATE APPLICATIONS



NOTES: DETAIL DESIGNED TO ACCOMMODATE MAX. 50% TOTAL MOVEMENT.

BACKER ROD AND SEALANT ARE REQUIRED IN JOINT PRIOR TO MM6125/FLEX-FLASH UN INSTALLATION.

5 EXPANSION JOINTS UP TO 1" AS-BUILT

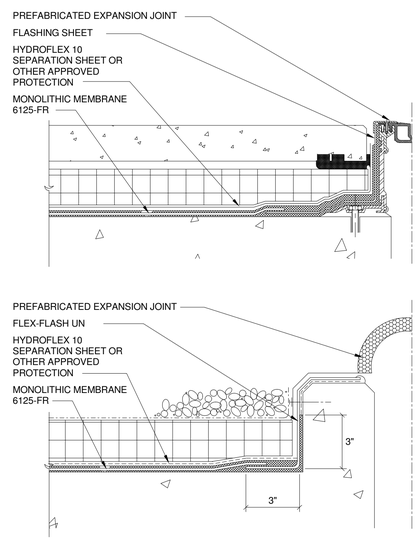


NOTES: TREATED WOOD BLOCKING, CONCRETE MASONRY UNITS, ETC., CAN BE SUBSTITUTED FOR P.I.P. CONCRETE CURB.

DETAIL DESIGNED TO ACCOMMODATE MAX. 50% TOTAL MOVEMENT.

DIAMETER OF FOAM ROD OR TUBE SHOULD BE 1" LARGER THAN MAXIMUM AS-BUILT JOINT OPENING.

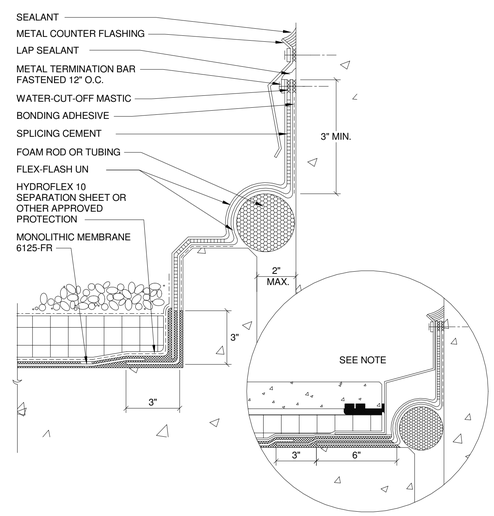
6 FIELD EXPANSION JOINTS 1"-2" MAX. AS-BUILT WIDTHS



NOTES: TREATED WOOD BLOCKING, CONCRETE MASONRY UNITS, ETC. MAY BE SUBSTITUTED FOR P.I.P. CONCRETE CURB.

MANUFACTURERS OF PREFABRICATED EXPANSION JOINT SYSTEMS MUST BE CONSULTED FOR SPECIFIC PRODUCT AND INSTALLATION INFORMATION.

7 ALTERNATE PRE-FABRICATED FIELD EXPANSION JOINTS



NOTES: TREATED WOOD BLOCKING, CONCRETE MASONRY UNITS, ETC., CAN BE SUBSTITUTED FOR P.I.P. CONCRETE CURB.

IF CURBING THE DETAIL IS NOT FEASIBLE, APPROPRIATE PROTECTION IS REQUIRED TO DIVERT WATER AWAY AND PREVENT MECHANICAL DAMAGE. (SEE INSET DETAIL)

DETAIL DESIGNED TO ACCOMMODATE MAXIMUM 50% TOTAL MOVEMENT.

DIAMETER OF FOAM ROD OR TUBE SHOULD BE 1" LARGER THAN MAXIMUM AS-BUILT JOINT OPENING.

8 DECK-TO-WALL EXPANSION JOINTS 1"-2" MAX. AS BUILT WIDTHS

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ROOFING DETAILS

DWG #
A-806.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039137 STATE OF NEW YORK

Date:	05/21/12
Scale:	3" = 1'-0"
Drawn:	Designer
Job #	32157
Checked:	Checker

NOTE:

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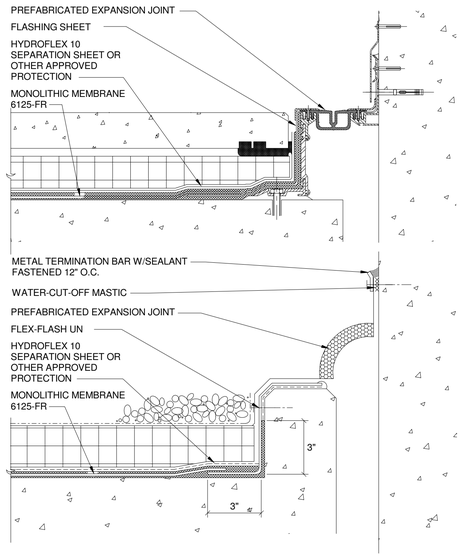
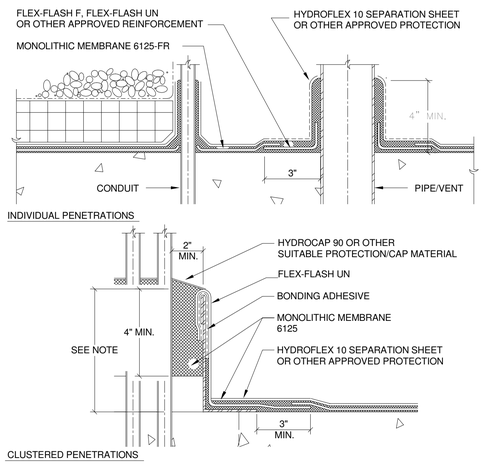


NOTES: TREATED WOOD BLOCKING, CONCRETE MASONRY UNITS, ETC. MAY BE SUBSTITUTED FOR P.I.P. CONCRETE CURB.

MANUFACTURERS OF PREFABRICATED EXPANSION JOINT SYSTEMS MUST BE CONSULTED FOR SPECIFIC PRODUCT AND INSTALLATION INFORMATION.

1 ALTERNATE PREFABRICATED DECK-TO-WALL EXPANSION JOINTS



NOTES: TOP OF PITCH POCKET (TOTAL HEIGHT) SHOULD BE AT OR HIGHER THAN THE SURFACE OF THE BALLAST/TOPPING. MEMBRANE "FILL" MUST BE A MINIMUM OF 4" DEEP. EXCESS DEPTH MAY BE FILLED WITH A NON-SHRINK GROUT.

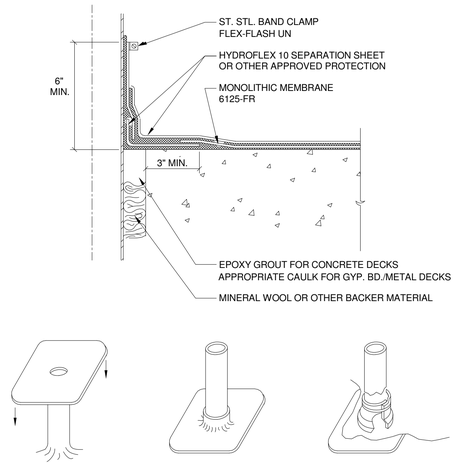
ALL SURFACES WITHIN THE PITCH POCKET MUST FIRST BE "PRIMED" WITH MM 6125 PRIOR TO FILLING POCKET WITH MEMBRANE. USING A BRUSH LOADED WITH MM 6125, ALL PENETRATION, POCKET & DECK SURFACES MUST BE COATED.

POCKET SHOULD BE FILLED SO AS TO PROVIDE A POSITIVE WATER SHED (SLOPE).

SOME PIPE MATERIALS (PVC, COPPER, BRASS) REQUIRE ROUGHENING/SANDING, IN ADDITION TO PRIMING W/SURFACE CONDITIONER, FOR PROPER ADHESION OF MM6125.

METAL PIPES MUST BE FREE OF ALL OIL AND RUST.

2 TYPICAL CAST-IN-PLACE PENETRATIONS & PITCH POCKET (PIPE/ VENT)

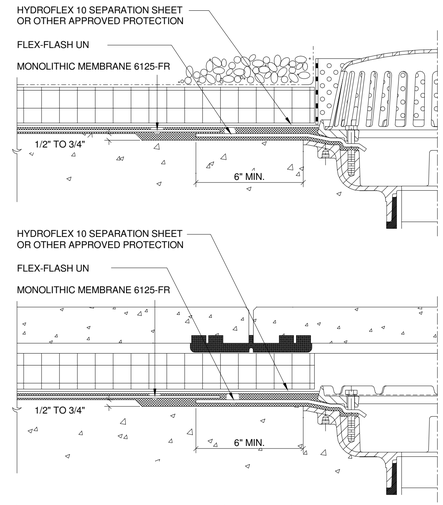


NOTES: PENETRATION MUST BE PROPERLY SECURED TO STRUCTURE TO PREVENT VERTICAL OR LATERAL MOVEMENT.

SOME PIPE MATERIALS (PVC, COPPER, BRASS) MAY REQUIRE ROUGHENING/SANDING, IN ADDITION TO PRIMING WITH SURFACE CONDITIONER, FOR PROPER ADHESION OF THE MM6125.

METAL PIPES MUST BE FREE OF ALL OIL AND RUST.

3 TYPICAL NON CAST-IN-PLACE PENETRATIONS (PIPE/ VENT)

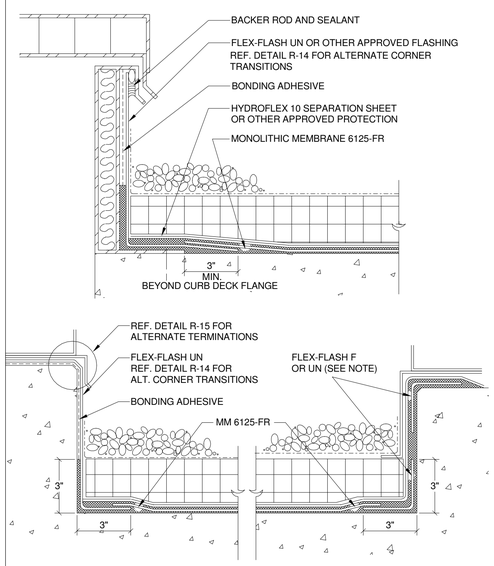


NOTES: AREA AROUND DRAIN SHOULD BE DEPRESSED/SUMPED (SEE DRAWING) TO PROMOTE POSITIVE WATER DRAINAGE.

REINFORCEMENT SHALL BE ONE SHEET EXTENDING A MINIMUM OF 6" BEYOND THE DRAIN FLANGE ON ALL SIDES AND SECURED IN CLAMPING RING AT DRAIN.

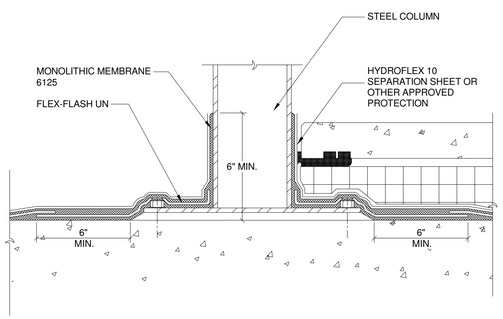
ALL DRAINS ARE REQUIRED TO HAVE FLASHING CLAMPING RING ASSEMBLIES. CONSULT SPECIFIC DRAIN MANUFACTURER FOR ADDL. ACCESSORIES (i.e., PERFORATED GRAVEL COLLARS, UNDERDECK CLAMPS FOR METAL DECKS, ETC.)

4 TYPICAL DRAIN DETAILS



NOTE: FLEX-FLASH F MAY BE USED AT ALL CONCRETE-TO-CONCRETE AND CONCRETE-TO-CONCRETE BLOCK TRANSITIONS. FLEX-FLASH UN MUST BE USED AT ALL OTHER TRANSITIONS (i.e., CONC.-TO-GYP. BOARD, GYP. BOARD-TO-GYP. BOARD, ETC.).

5 TYPICAL CURB DETAILS



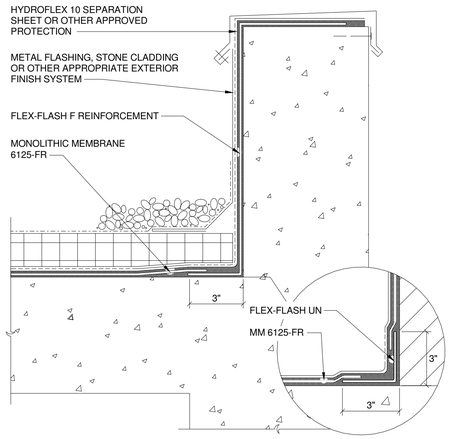
NOTES:

DAVIT SURFACE MUST BE CLEAN AND FREE OF ALL RUST AND OTHER CONTAMINANTS

USE LARGEST SHEETS OF UNCURED NEOPRENE POSSIBLE. WHEN POSSIBLE, A HOLE SMALLER THAN THE PENETRATION SHOULD BE CUT IN THE CENTER OF THE SHEET OF NEOPRENE AND THE SHEET PULLED DOWN OVER THE DAVIT.

CUT A SLIT OR "X" INTO THE NEOPRENE SHEET DIRECTLY OVER THE BOLT HEADS TO ALLOW EMBEDDING/FORMING TIGHTLY AROUND BOLT HEAD.

6 TYPICAL DAVIT DETAILS

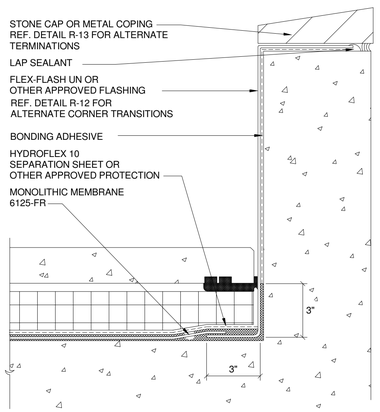


NOTES: MONOLITHIC MEMBRANE 6125 CAN BE USED TO FLASH PERIMETER PARAPET/ CURB DETAILS BUT MUST NOT BE LEFT EXPOSED.

FLEX-FLASH F MAY BE USED AT ALL CONCRETE-TO-CONCRETE AND CONCRETE-TO-CONCRETE BLOCK TRANSITIONS. FLEX-FLASH UN MUST BE USED AT ALL OTHER TRANSITIONS (i.e., CONC.-TO-GYP. BOARD, GYP. BOARD-TO-GYP. BOARD, ETC.).

PARAPETS/CURBS COMPOSED OF CONCRETE BLOCK (CMU) MUST BE FLASHED WITH MM 6125-FR (FABRIC REINFORCED) MEMBRANE. (SEE INSET DETAIL)

7 TYPICAL PARAPET - COVERED FLASHING CONDITIONS



NOTES: REFERENCE GUIDELINE DETAIL R-13 FOR ALTERNATIVE TERMINATIONS.

REFERENCE GUIDELINE DETAIL R-12 FOR ALTERNATE CORNER TRANSITION DETAILS, TIE-IN WITH MM 6125-FR (FABRIC REINFORCED) MEMBRANE AND FLASHING WITH FLEX-FLASH MB.

8 TYPICAL PARAPET - EXPOSED FLASHING CONDITIONS

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
ROOFING DETAILS

DWG #
A-807.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039812 STATE OF NEW YORK

Date:	05/21/12
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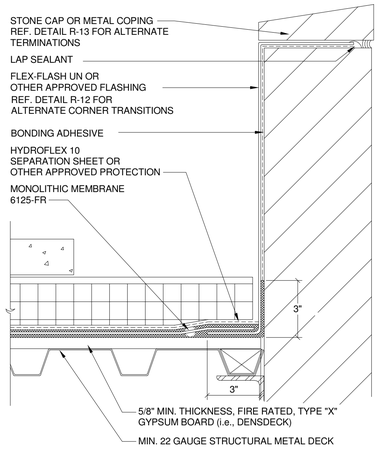
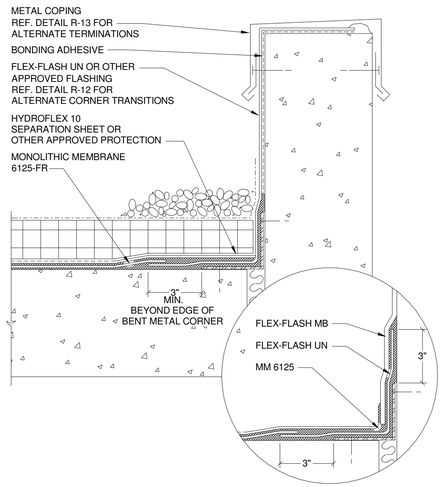


NOTES: ADEQUATE STRUCTURAL SUPPORTS AND THE NUMBER AND TYPE OF FASTENERS REQUIRED TO COMPLY WITH APPLICABLE CODES, SHOULD BE DETERMINED AND VERIFIED BY PROJECT ARCHITECT/ENGINEER.

ADDITIONAL REINFORCING (MM 6125 W/6" WIDE FLEX-FLASH F) IS REQUIRED OVER SUBSTRATE BOARD JOINTS FOR EXTENDED (10+ YEARS) WARRANTIES.

THE FR (FABRIC REINFORCED) MEMBRANE ASSEMBLY IS ALSO REQUIRED IN ANY REHAB/RETROFIT APPLICATION AND MAY ALSO BE USED ON NEW CONCRETE.

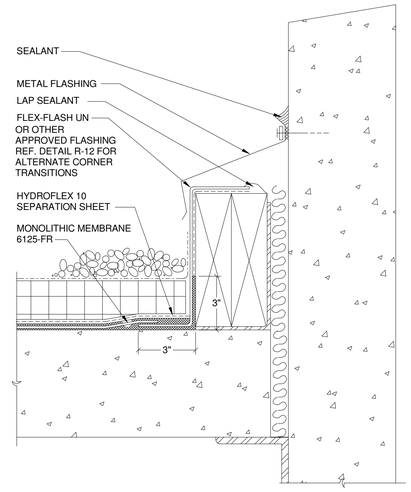
1 TYPICAL PARAPET - GYPSUM BOARD/ METAL DECK SUBSTRATE



NOTES: BENT SHEET METAL CORNER MUST BE OF SUFFICIENT GAUGE AND SECURED TO THE DECK AND WALL SUFFICIENTLY TO PREVENT BUCKLING.

FLEX-FLASH UN MUST BE USED TO REINFORCE THE MM 6125 OVER THE BENT METAL CORNER.

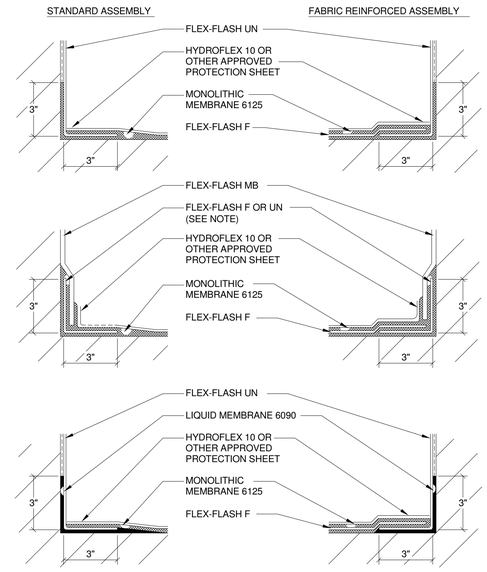
2 TYPICAL PARAPET - AT PRECAST WALL



NOTES: POURED-IN-PLACE CONCRETE OR CONCRETE BLOCK (CMU) MAY BE SUBSTITUTED FOR TREATED WOOD BLOCKING.

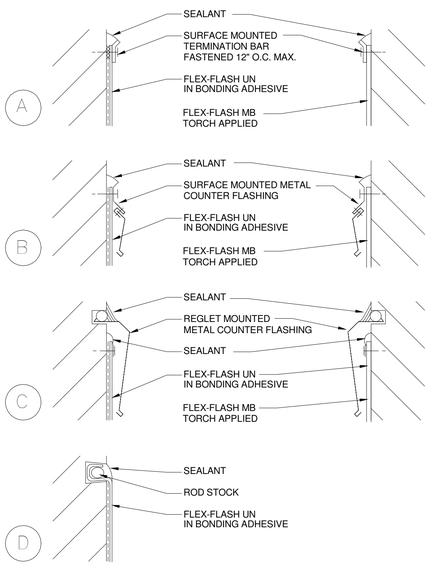
REFERENCE GUIDELINE DETAIL R-12 FOR ALTERNATE CORNER TRANSITION DETAILS, TIE-IN WITH MM 6125-FR (FABRIC REINFORCED) MEMBRANE AND FLASHING WITH FLEX-FLASH MB.

3 TYPICAL PARAPET - AT PRECAST WALL

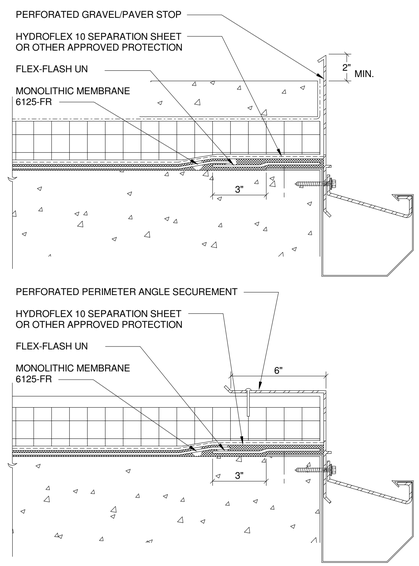


NOTE: FLEX-FLASH F MAY BE USED AT ALL CONCRETE-TO-CONCRETE AND CONCRETE-TO-CONCRETE BLOCK TRANSITIONS. FLEX-FLASH UN MUST BE USED AT ALL OTHER TRANSITIONS (i.e., CONC.-TO-GYP. BOARD, GYP. BOARD-TO-GYP. BOARD, ETC.).

4 ALTERNATE FLASHING CORNER TRANSITIONS



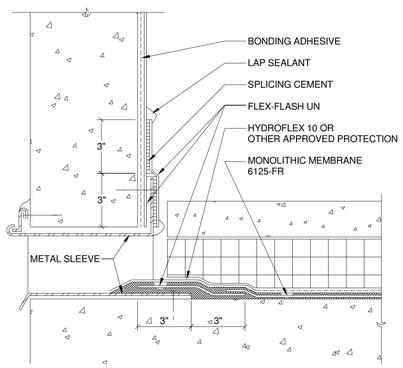
5 ALTERNATE FLASHING TERMINATIONS



NOTES: EMBED GUTTER/GRAVEL STOP DECK FLANGE IN MM 6125 WHENEVER POSSIBLE.

REFER TO HYDROGUARD INSTALLATION GUIDELINES FOR ADDITIONAL INSTALLATION AND PERIMETER SECUREMENT REQUIREMENTS.

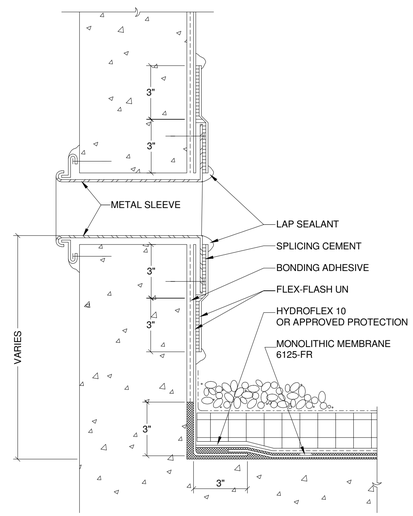
6 ROOF EDGE TERMINATION- TYP.GRAVEL/PAVER STOP



NOTES: IF CONCRETE PAVER BALLAST >10% OF TOTAL ROOF AREA, THE PAVERS CANNOT BE INSTALLED DIRECTLY ON THE SURFACE OF THE STYROFOAM INSULATION UNLESS STYROFOAM RIBBED ROOFMATE IS USED. PAVER PEDESTALS (i.e., TERRA TABS) MAY ALSO BE USED TO INCORPORATE REQUIRED AIR SPACE.

WHEN GRAVEL/STONE BALLAST IS USED, A FILTER FABRIC MUST BE INSTALLED BETWEEN THE BALLAST AND STYROFOAM INSULATION.

7 THRU-WALL SCUPPER FLASHING



NOTES: REFERENCE GUIDELINE DETAIL R-12 FOR ALTERNATE CORNER TRANSITION DETAILS AND R-13 FOR ALTERNATE TERMINATION DETAILS.

8 OVERFLOW SCUPPER FLASHING

Revision No.	Date	Remarks

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DOB APPLICATION NO.
320593041

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

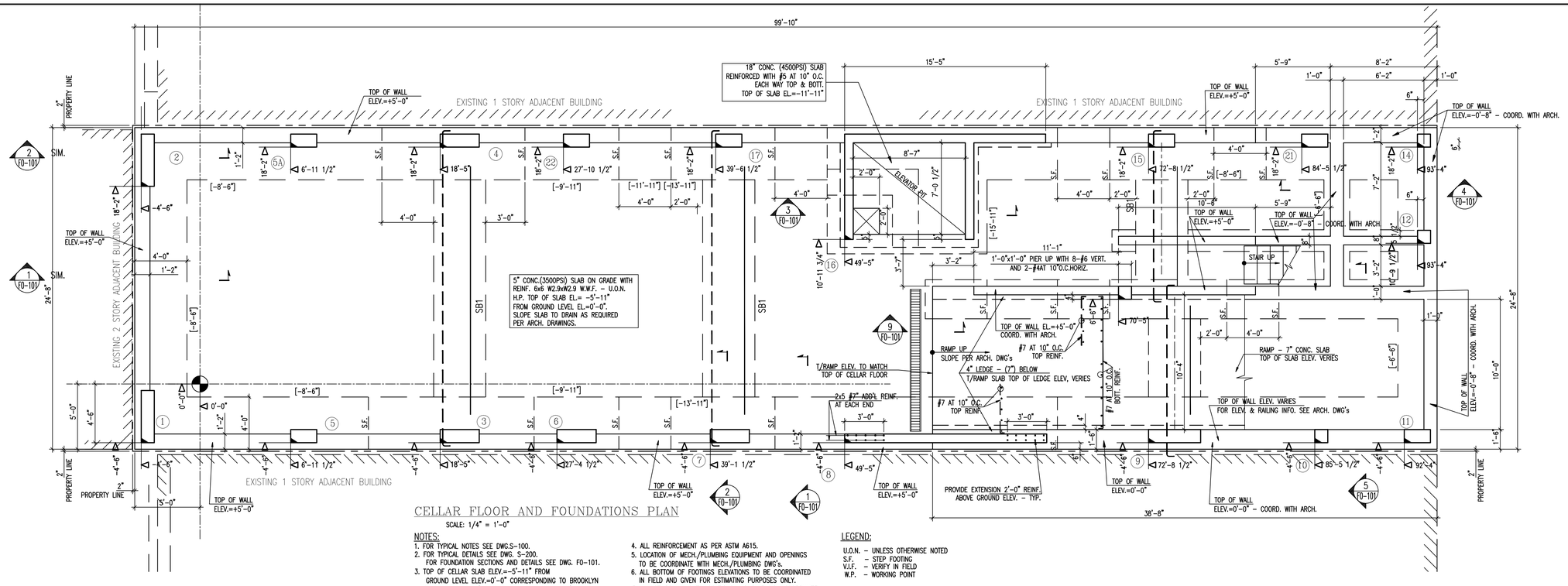
Title:
ROOFING DETAILS

DWG #
A-808.00

Signature:

Seal: REGISTERED ARCHITECT TAMAR KISILEVITZ 039127 STATE OF NEW YORK

Date: 05/21/12
Scale: 3" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker



CELLAR FLOOR AND FOUNDATIONS PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG.S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200. FOR FOUNDATION SECTIONS AND DETAILS SEE DWG. F0-101.
3. TOP OF CELLAR SLAB ELEV.=-5'-11" FROM GROUND LEVEL ELEV.=0'-0" CORRESPONDING TO BROOKLYN DATUM ELEV.=11.97'; COORDINATE WITH ARCH. DWG's.
4. ALL REINFORCEMENT AS PER ASTM A615.
5. LOCATION OF MECH./PLUMBING EQUIPMENT AND OPENINGS TO BE COORDINATE WITH MECH./PLUMBING DWG's.
6. ALL BOTTOM OF FOOTINGS ELEVATIONS TO BE COORDINATED IN FIELD AND GIVEN FOR ESTIMATING PURPOSES ONLY.
7. ALL STAIRS LAY OUT, LOCATIONS AND DIMENSION COORDINATE WITH ARCHITECTURAL DRAWINGS.
8. THICKENED SLAB UNDER PARTITION WALL PER TYPICAL DETAILS. SEE WERE SHOWN ON PLAN.

LEGEND:

U.O.N. - UNLESS OTHERWISE NOTED
S.F. - STEP FOOTING
V.I.F. - VERIFY IN FIELD
W.P. - WORKING POINT

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

No.	Revision	Date
0	For Coordination	9/27/11

Architect and/or engineer not retained for inspections or supervision. Contractor shall verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with the work. Do not scale drawing, use dimensions. Contractor shall obtain all necessary permits from the authorities having jurisdiction before starting work and he shall obtain either a certificate of compliance or a certificate of occupancy upon completion of work.

The architect and/or engineer shall not have control or charge of and shall not be responsible for safety precautions, methods, deviation, techniques, sequences or procedures, or for safety precautions and programs in connection with the work for the acts or omission of the contractor subcontractors or any other persons performing any of the work, nor shall the failure of any of them to carry out the work in accordance with contract documents

Project:

415 Manhattan Avenue
Brooklyn N.Y. 11229

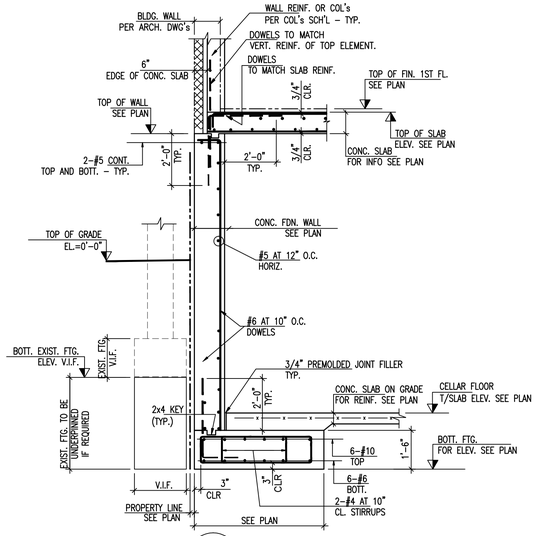
LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

Drawing Title

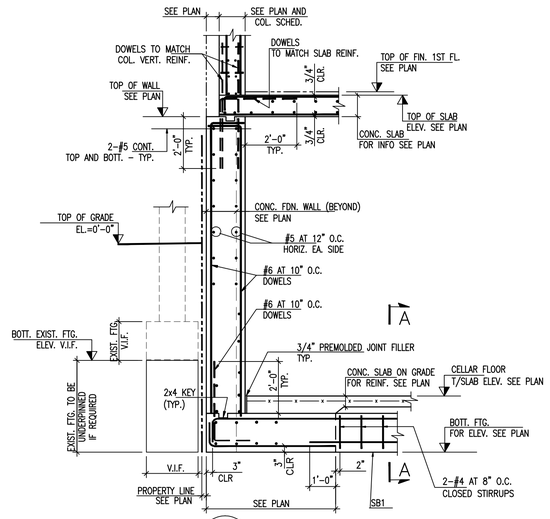
FOUNDATION PLAN.

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	F0-100.00

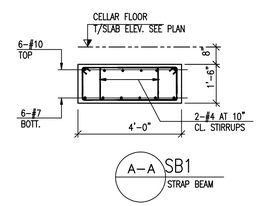
1 OF 2



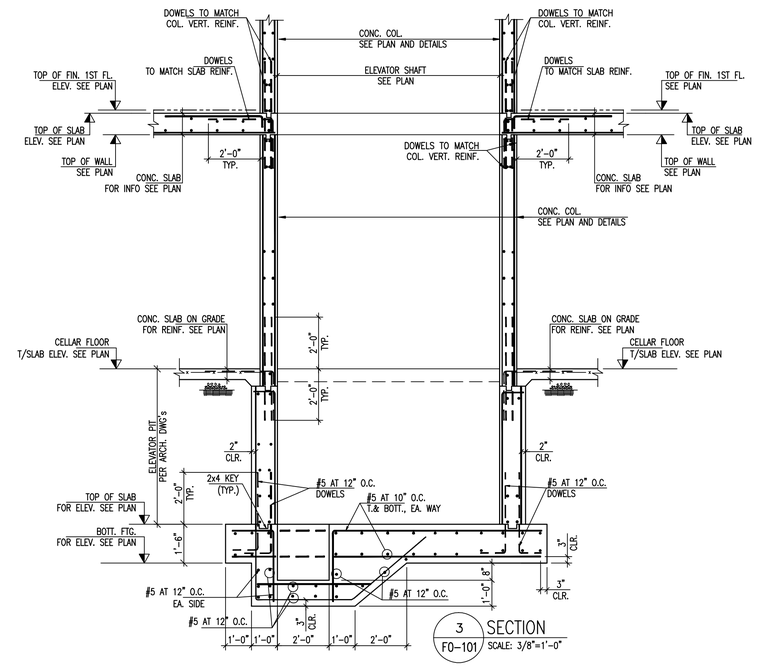
1 SECTION F0-101 SCALE: 3/8"=1'-0"



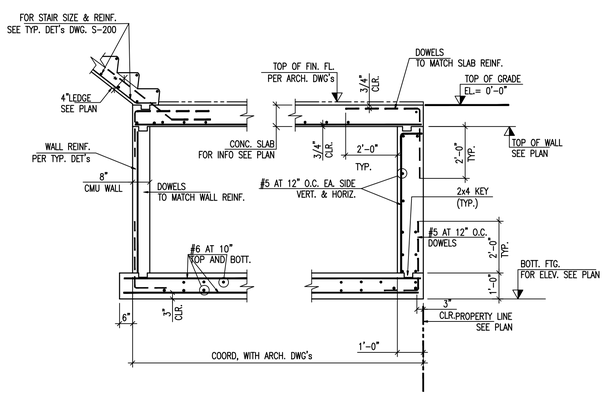
2 SECTION F0-101 SCALE: 3/8"=1'-0"



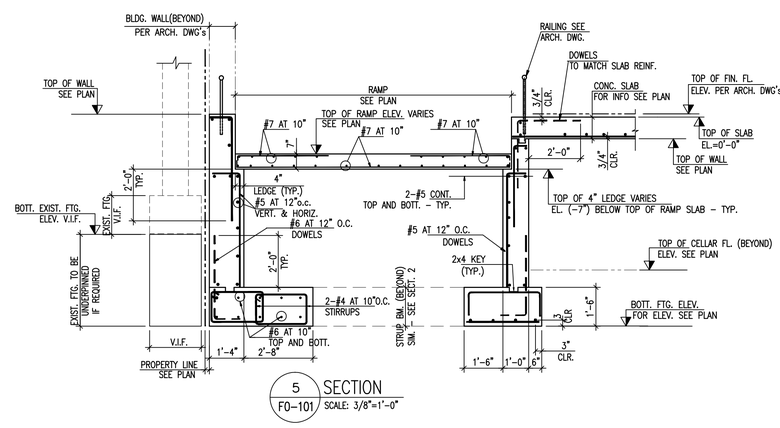
A–A SB1 STRAP BEAM



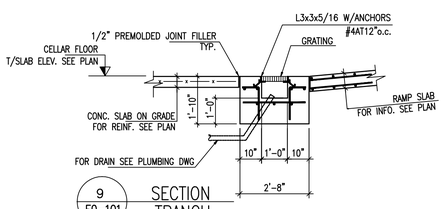
3 SECTION F0-101 SCALE: 3/8"=1'-0"



4 SECTION F0-101 SCALE: 3/8"=1'-0"



5 SECTION F0-101 SCALE: 3/8"=1'-0"



9 SECTION TRANCH F0-101 SCALE: 3/8"=1'-0"

No.	Revision	Date
0	For Coordination	9/27/11

Architect and/or engineer not retained for construction. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with work.
Do not scale drawing, use dimensions.
Contractor shall obtain all necessary permits, pay all fees and comply with all jurisdiction before starting work and he shall obtain either a certificate of compliance or a certificate of occupancy upon completion of work.

The architect and/or engineer shall not be responsible for construction means, methods, deviation, techniques, sequences or procedures or for safety precautions and programs in connection with the work for the acts or omission of the contractor subcontractors or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with contract documents

Project:
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Brooklyn N.Y. 11222

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Drawing Title
SECTIONS AND DETAILS.

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	F0-101.00

2 OF 2

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

GENERAL NOTES:

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.

2. THE LATEST EDITIONS OF THE FOLLOWING CODES SHALL APPLY:
   A. THE CITY OF NEW YORK BUILDING CODE.
   B. BUILDING REQUIREMENTS FOR REINFORCED CONCRETE – ACI 318-89 MODIFIED BY THE NYC . NYC BUILDING CODE, LOCAL LAW 1/1995. THE STRUCTURE WAS DESIGNED USING A SITE SPECIFIC COEFFICIENT S=1.2 AND FACTOR Rw=5 (FOR CONCRETE SHEAR WALLS WITH CONCRETE OMRF).
   C. BUILDING REQUIREMENTS FOR CONCRETE MASONRY – ACI 531.
   D. AISI – SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.

IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

3. FIELD MEASUREMENTS SHALL BE TAKEN AT THE SITE TO VERIFY AND SUPPLEMENT ALL DIMENSIONS AND ADDITIONS AFFECTED BY EXISTING WORK OR NEW WORK THAT HAS BEEN ALREADY INSTALLED. ANY DISCREPANCIES FROM THE INFORMATION SHOWN ON PLANS SHALL BE REPORTED TO AND COORDINATED WITH THE ENGINEER.

4. BEFORE COMMENCEMENT OF FOUNDATION WORK, THE CONTRACTOR SHALL FILE AN AMENDMENT WITH THE BUILDING DEPARTMENT CERTIFYING THAT HIS PROFESSIONAL ENGINEER ASSUMES THE RESPONSIBILITY FOR FOR THE INSPECTION OF CONCRETE WORK AS PER 27-607 OF THE NEW YORK CITY BUILDING CODE.

5 THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR HIS APPROVAL CONCRETE MIX DESIGNS AND SHOP DRAWINGS OF ALL PERTAINING TRADES.

6. THE CONTRACTOR SHALL ADEQUATELY BRACE AND SUPPORT THE STRUCTURE DURING THE ENTIRE CONSTRUCTION PERIOD.

7. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ROOF AND FLOOR PENETRATIONS, PATCHING, REPAIRING AND FLASHING AS REQUIRED.

8. THE GENERAL CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE ENGINEER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF THE WORK.

9. IN CASE OF DISCREPANCY BETWEEN STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS. NO WORK SHALL BE DONE PRIOR TO NOTIFICATION OF THE ENGINEER.

10. ALL WORK SHALL CONFORM TO NYC BUILDING CODE SEISMIC REQUIREMENTS, NYC BUILDING CODE LOCAL LAW 17/1995.

CONTROLLED INSPECTIONS AND TECHNICAL REPORTS

SPECIAL INSPECTION ITEMS:

LISTED BELOW ARE REQUIRED TECHNICAL REPORTS:
1. STRUCTURAL STEEL– WELDING BC 1704.3.1
2. STRUCTURAL STEEL–ERECTION–BOLTING BC1704.3.2, 1704.3.3
3. FOOTINGS AND FOUNDATIONS BC 109.3.1.
4. EXCAVATION SHEETING SHORING AND BRACING BC 1704.19 BC 3304.4.1.
5. CONCRETE CAST–IN–PLACE BC 1704.4
6. CONCRETE DESIGN MIX BC 1905.3
7. CONCRTE TEST CYLINDERS BC 1905.6

1. PRIOR TO COMMENCEMENT OF ANY WORK THE CONTRACTOR SHALL RETAIN AT HIS EXPENSE SERVICES OF THE NY STATE PROFESSIONAL ENGINEER TO PROVIDE CONTROLLED INSPECTION SERVICES ABOVE.

2. THE CONTRACTOR SHALL GIVE 48 HOURS NOTIFICATION TO THE STRUCTURAL ENGINEER 48 HOURS OR ANY OTHER INSPECTING AGENCY SELECTED BY THE GENERAL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.

MASONRY NOTES:

1. MASONRY WALL MATERIAL STRENGTHS SHALL CONFORM TO THE FOLLOWING:
–BRICK .....MIN. COMP. STRENGTH 3,500 PSI;
–6 " CONCRETE BLOCK MIN. COMP. STRENGTH 2,500 PSI ON NET AREA AS PER ASTM C90 LIGHTWEIGHT AGGREGATE
–MORTAR –ASTM C270 TYPE S COMPRESSIVE STRENGTH 1,800 PSI.

2. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN ALTERNATE COURSES. LAP REINFORCEMENT AT ALL CORNERS AND INTERSECTIONS.

3. WALL REINFORCEMENT SHALL BE AS FOLLOWS:
–PROVIDE VERTICAL REINFORCEMENT AS SHOWN ON PLANS OR #4 AT 8'–0"(MIN.);
–PROVIDE VERTICAL REINFORCEMENT 1–#4 BAR AT EACH CORNER, EACH SIDE OF EACH OPENING, AND ENDS OF THE WALLS;
–PROVIDE 1–#4 BAR ABOVE AND BELOW WINDOW EACH OPENING. #4 BAR TO EXTEND 26 INCHES BEYOND THE EDGE OF THE OPENING AT EACH SIDE;
–PROVIDE 1–#4 BAR ABOVE OF EACH DOOR OPENING. EXTEND BAR 26 INCHES BEYOND THE EDGE OF THE OPENING AT EACH SIDE;
–PROVIDE 2–#4 BARS HORIZONTAL CONTINUOUS REINFORCEMENT AT 8 INCH DEEP BOND BEAM AT EACH FLOOR.

4. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ROOF AND FLOOR PENETRATIONS, PATCHING, REPAIRING AND FLASHING AS REQUIRED.

FOUNDATION NOTES:

1. MAT FOOTING SHALL BEAR ON SOIL WITH A MINIMUM BEARING CAPACITY OF ONE AND ONE THRIRD TONS PER SQUARE FOOT. IF MATERIAL OF THIS CAPACITY IS NOT FOUND AT THE ELEVATIONS INDICATED THE FOOTING SHALL BE LOWERED AT THE DIRECTION OF THE ENGINEER.

2. ALL ORGANIC AND/OR UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS. THESE AREAS SHALL BE BACKFILLED WITH ACCEPTABLE GRANULAR FILL, COMPACTED TO (95) PERCENT OF MAXIMUM DENSITY.

3. A GEOTECHNICAL EXPLORATION REPORT CONTAINING SOIL BORINGS DATA HAS BEEN PREPARED BY STATEN ISLAND TESTING CORP. 211 ARLINGTON AVENUE STATEN ISLAND, 10303 TEL. (718) 447–6406.

LATERAL LOADS DATA:

FLAT–ROOF SNOW LOAD	Pf 25 PSF
SNOW EXPOSURE FACTOR	Ce 0.9
SNOW LOAD IMPORTANCE FACTOR	Is 1.0
THERMAL FACTOR	Ct 1.0
BASIC WING SPEED	98MPH
WIND IMPORTANCE FACTOR	Iw 1.0
STRUCTURAL OCCUPANCY CATEGORY	II
WIND EXPOSURE	B
INTERNAL PRESSURE COEFICIENT	±0.18
DESIGN PRESURE FOR COMPONENTS AND CLADING 30/20PSF PRESSURE OR SUCTION.	
MAPPED SPECTRAL RESPONCE ACCELERATION	Ss=0.365g, Sd1=0.071g
SEISMIC USE GROUP	II
SEISMIC IMPORTANCE FACTOR	Ie=1.0
SITE CLASS	D
SPECIAL RESPONCE COEFFICIENTS	Ssd = 0.367 Sd=0.114
SEISMIC DESIGN CATEGORY	C
BASIC SEISMIC–FORCE–RESISTING SYSTEM:	
STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETALED FOR SEISMOC RESISTANCE	
DESIGN BASE SHEAR	190 KIPS MAX
RESPONCE MODIFICATION FACTOR	R=5
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE	

CONCRETE NOTES:

1. ALL CONCRETE SHALL BE – 5000 PSI STONE 9COLUMNS – 5000 PSI SLABS, –4000 PSI WALLS AND FOOTINGS UNLESS OTHERWISE NOTED ON PLANS. WITH 0.50 WATER–CEMENT RATIO AND 5% OF AIR–ENTRAINMENT.

2. BAR REINFORCEMENT SHALL CONFORM TO ASTM–615, GRADE 60.

3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A–185 WITH MINIMUM ULTIMATE TENSILE STRENGTH 70,000 PSI.

4. CONCRETE SHALL BE PLACED MONOLITHICALLY EXCEPT WHERE OTHERWISE SHOWN.

5. REINFORCING BARS SHALL HAVE THE FOLLOWING MINIMUM CONCRETE PROTECTION:
   CONCRETE PLACED AGAINST EARTH – 3 IN.
   EXPOSED TO EARTH OR WEATHER – 2 IN.
   NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH – 3/4" IN SLABS, WALLS. – 1 1/2" IN COLUMNS.

6. ALL CONTINUOUS REINFORCING SHALL BE LAPPED AT SPLICES, BENT AROUND CORNERS AND FULLY EMBEDDED IN CONCRETE. (SEE TYPICAL DETAILS FOR EMBEDMENT AND SPLICE LENGTH). THE SPLICE BETWEEN SPLICED BARS SHALL NOT EXCEED 1/ OF THE REQUIRED LENGTH OF LAP NOR 6 IN.

7. CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL COMPLY WITH ACI 318–89, SECTION 6.3 UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD. EMBEDDED PIPES OR CONDUITTS SHALL 1/3 THICKNESS OF THE SLAB IN WITH THEY ARE EMBEDDED, NOR THEY SHALL BE CLOSER THAN 3 IN. OF OTHER CONDUITS OR PIPING, NOR THEY SHALL PASS CLOSER THAN 24 IN. OF COLUMNS.

7. CONCRETE MAY BE CONVEYED BY PUMPING. PUMPING METHODS SHALL CONFORM TO REQUIREMENTS ESTABLISHED BY ACI COMMITTEE 304, PLACING CONCRETE PUMPING METHODS.

8. PRIOR TO PLACING CONCRETE, ALL REINFORCING SHALL BE FREE OF LOOSE FLAKY RUST, MUD, OIL OR OTHER COATING THAT WILL REDUCE FULL BOND CAPACITY.

9. MAXIMUM LENGTH OF CONCRETE POUR (DISTANCE BETWEEN CONSTRUCTION JOINTS) SHALL BE 50 FEET DURING JUNE THROUGH SEPTEMBER AND 75 FEET REST OF THE YEAR.

10. ALL TOP AND BOTTOM REINFORCEMENT AT BALCONY AND GARAGE SLABS AND STAIRS SHALL BE EPOXY COATED. ALL SPLICE AND EMBEDMENT LENGTH OF EPOXY–COATED REINFORCEMENT SHALL BE INCREASED BY 33% OF THE LENGTH SHOWN IN STANDARD SCHEDULES OR TYPICAL DETAILS.

11. ALL EXPOSED TO WEATHER REINFORCEMENT SHALL BE SUPPORTED ON GALVINAZED CHAIRS WITH PLASTED TIPS.

12. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, ANCHOR BOLTS, ETC. AS REQUIRED BY TRADES BEFORE CONCRETE IS POURED,

13. THE CONTRACTOR SHALL PROVIDE SLAB BOLSTERS, HIGH CHAIRS, AND ALL ACCESSORIES REQUIRED FOR PROPER PLACEMENT OF WIRE MESH AND REINFORCING AS PER ACI & CRSI STANDARDS, LOCATION OF CONSTRUCTION JOINTS IF REQUIRED SHALL BE APPROVED BY THE ENGINEER OF RECORD.

14. THE INDEPENDENT TESTING LADORATORY RETAINED BY THE GENERAL CONTRACTOR AND APPROVED THE ENGINEER SHALL INSPECT THE FOLLOWING WORK:

A. PRELIMINARY TESTS OF CONCRETE.
B. BATCH PLANT INSPECTION.
C. ON SITE INSPECTION, INCLUDING CYLINDER PREPARATION, SLUMP TEST, AIR CONTENT AND TEMPERATURE MEASUREMENTS DURING CONCRETE PLACEMENT.
D. FORM SIZE AND DIMENSIONS INSPECTION.
E. REINFORCEMENT PLACEMENT INSPECTION.
F. CONCRETE PLACEMENT INSPECTION. CONCRETE PLACEMENT.

ALL CONCRETE CONTROLLED INSPECTION REPORTS SHALL BE SIGNED AND SEALED BY THE LABORATORY RETAINED ENGINEER.

LOADING SCHEDULE: (PSF)

ITEM \ LEVEL	FLOOR LOADS 1–st FL.	FLOOR LOADS Typ. Fl..s	ROOF	CELLAR	SIDEWALK	STAIR
SUB–FLOOR–1"	4	4	–			
PARTITIONS/ROOF	6	6	5			
CEILING/MISC.	–	–	4			
HVAC DUCTS	–	–				
CONC. SLAB	100	100	100	88		18
OPEN WEB FRMNG.	–	–	–			
LIVE LOAD	100	40	30	50/100	250	100
TOTAL	210	160	149	138/188	250	118

CONCENTRATED AND LIVE LOADS HAVE BEEN DESIGNED IN ACCORDANCE WITH TABLE 1607.1 OF THE N.Y.C. BUILDING CODE.

SCHEDULE OF CONCENTRATED LOADS

FLOOR AND/OR LOCATION OF LOAD	DESCRIPTION OF CONCENTRATED LOADS	WEIGHT IN POUNDS	REMARKS
ROOF	———	250 LBS. (ON AREA OF 4 SQUARE INCHES)	NON–CONCURRENT WITH UNIFORM LIVE LOAD
BOILER ROOM	———	3000 LBS.	WEIGHT OF EQUIPMENT (PUMPS, ETC.)
ELEVATOR LOBBY	———	300 LBS. (ON AREA OF 2.5 SQUARE FEET)	NON–CONCURRENT WITH UNIFORM LIVE LOAD
FLOOR REGISTERS SIMILAR PL. INSERTS	———	250 LBS. (ON AREA OF 4 SQUARE INCHES)	NON–CONCURRENT WITH UNIFORM LIVE LOAD
STAIR	———	300 LBS. (ON AREA OF 4 SQUARE INCHES)	NON–CONCURRENT WITH UNIFORM LIVE LOAD

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Project: 415 Manhattan Avenue Brooklyn N.Y. 11229

LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393–9679

Drawing Title: TYPICAL NOTES

Drawn: LK
Checked: LK
Date: 6/02/13
Scale: AS NOTED
Job No.: ..–..
Drawing No.: S–100.00
1 OF 19

STATE OF NEW YORK · LEONID KRUPNIK · LICENSED PROFESSIONAL ENGINEER · 065639

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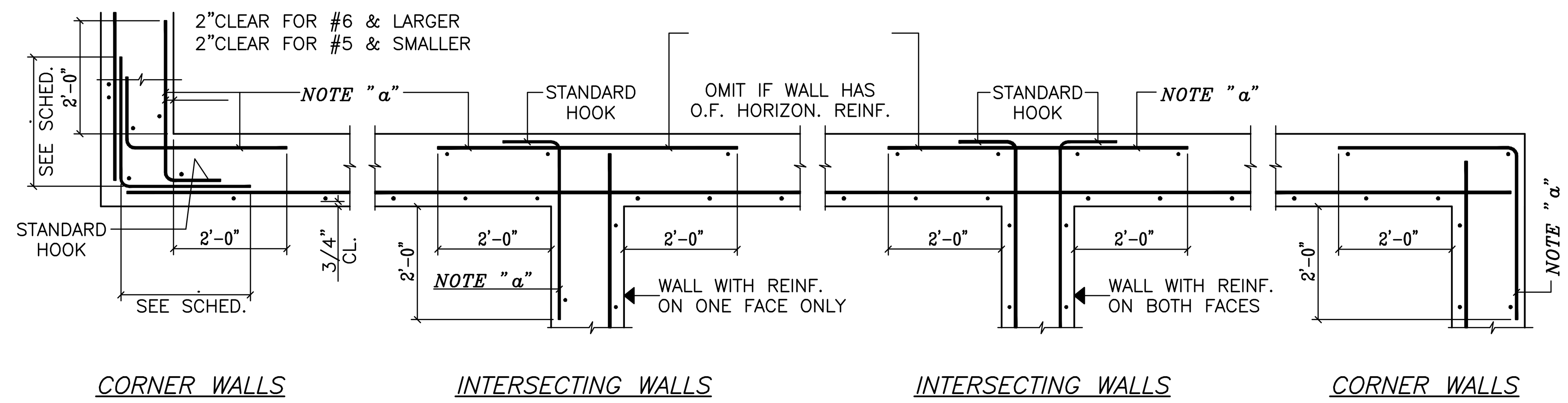
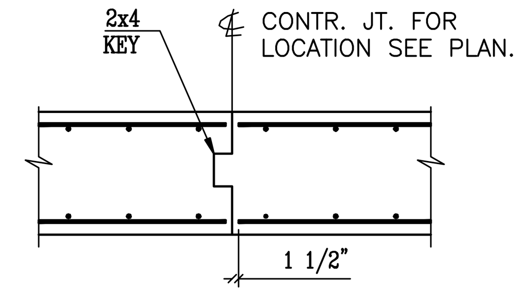
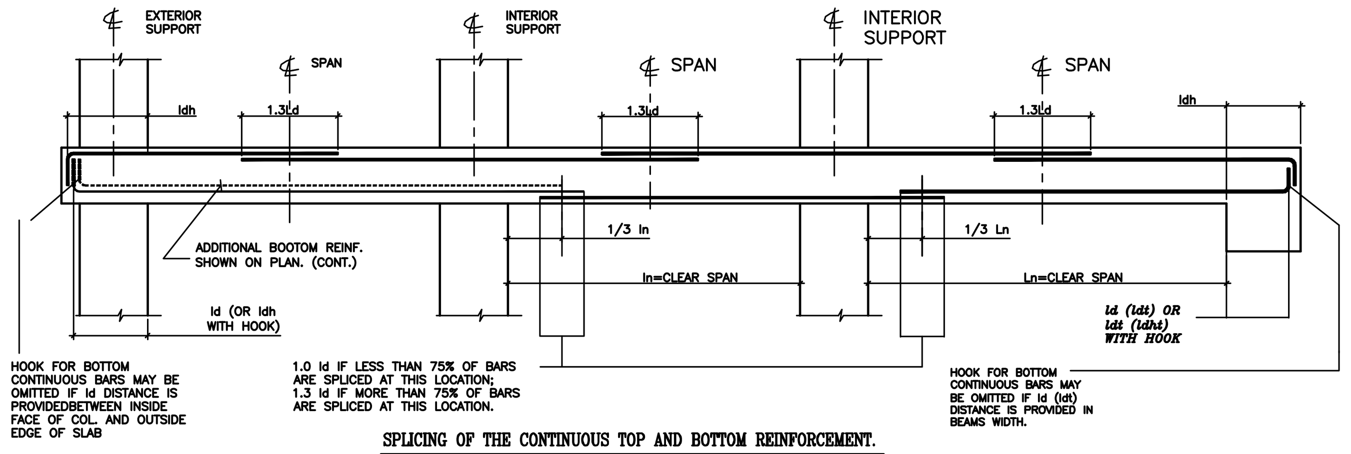


DETAIL OF REINFORCING AT WALL CORNERS

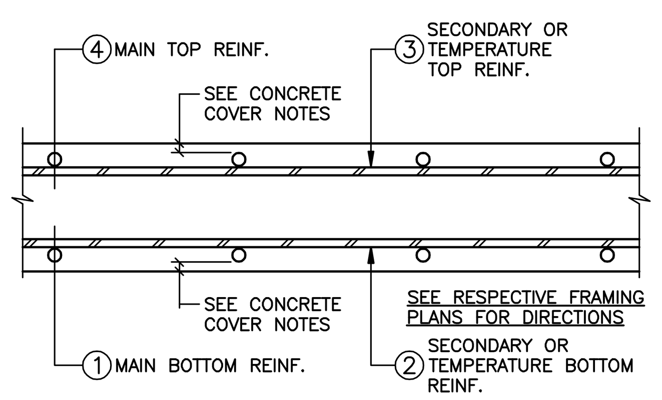
NOTE "a":
CORNER BARS EQUAL TO HORIZONTAL O.F. BARS OR MINIMUM OF #4@18"o.c. WHERE NOT INDICATED



TYPICAL CONTRACTION JOINT DETAIL.



SPLICING OF THE CONTINUOUS TOP AND BOTTOM REINFORCEMENT.



DETAIL "X"

(n SEQUENCE OF PLACEMENT FOR SLAB REINFORCEMENT.)

CONCRETE COVER FOR SLAB:

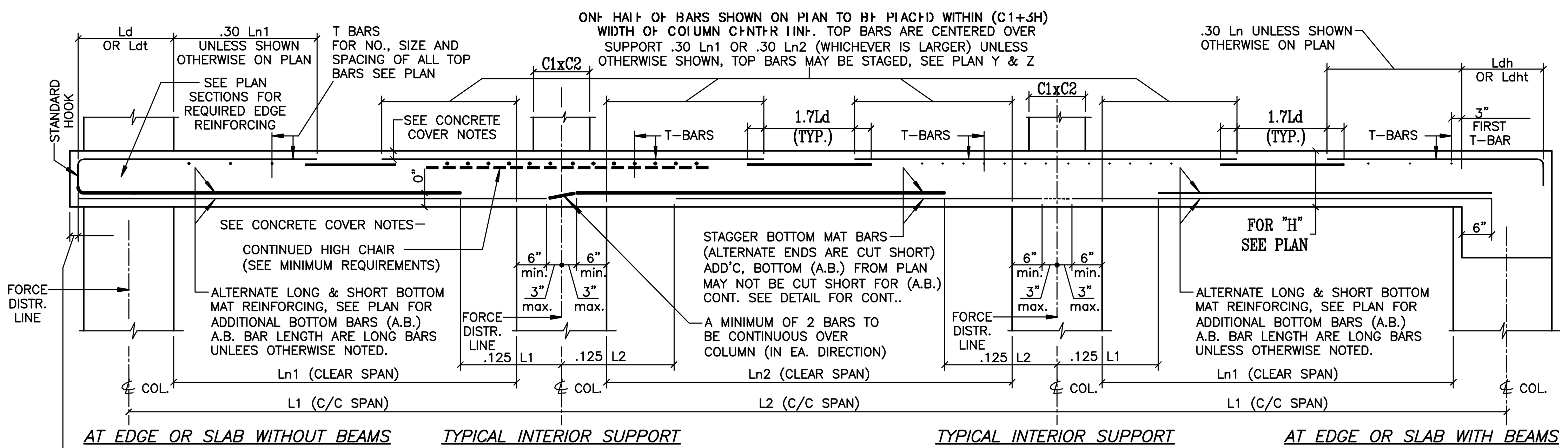
MAXIMUM CLEAR COVER SHALL BE 3/4" EXCEPT:

a) IS SURFACE IS TO REMAIN EXPOSED TO THE WEATHER, INCREASE MINIMUM COVER TO 1 1/2" FOR #5 OR SMALLER BARS AND TO 2" FOR LARGER BARS.

b) IF SURFACE IS EXPOSED TO DEICING OR OTHER CORROSIVE (SUCH AS SEA WATER SPRAY) ELEMENTS, INCREASE MINIMUM COVER TO 2" FOR ALL BARS AND USE EPOXY-COATED REINFORCEMENT.

c) IF 3 HR FIRE RATING IS REQUIRED INCREASE MINIMUM COVER TO 1".

SEE DETAIL "X" FOR PLACEMENT OF SLAB REINFORCING AND MINIMUM COVER



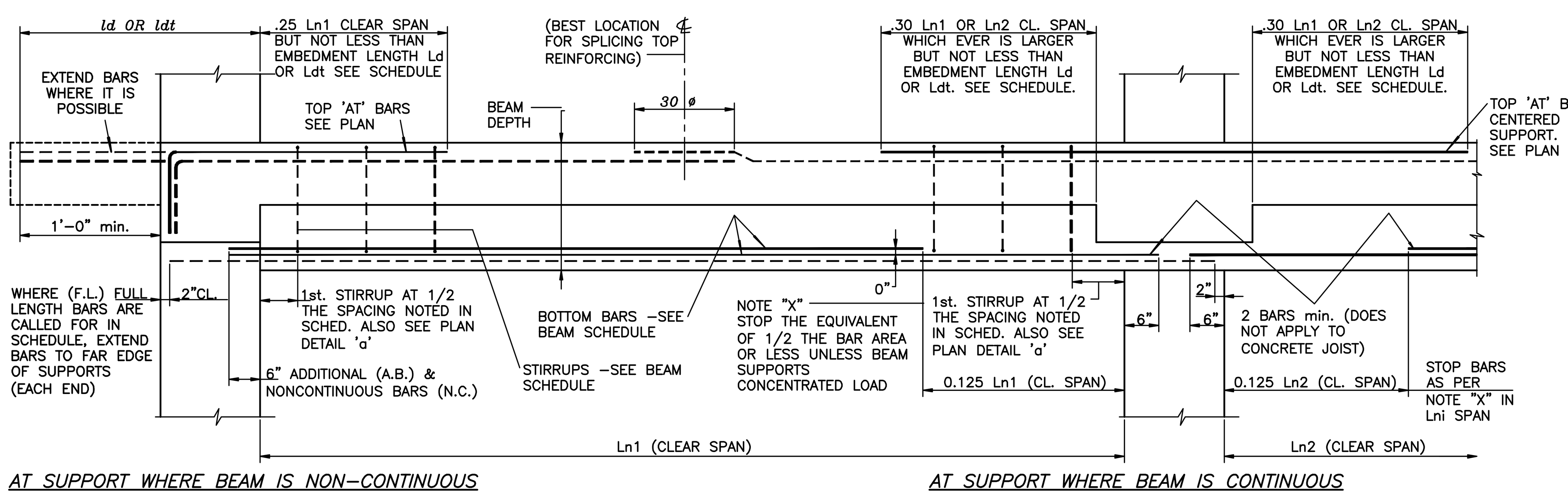
ALL TOP & BOTTOM BARS TO EXTEND TO 1-1/2" OF EDGE OF SLAB (2" COVER FOR #6 AND LARGER BARS IF CONCRETE IS EXPOSED TO WEATHER)

NOTES FOR COLUMN AND MIDDLE STRIPS:

1. MINIMUM BAR LENGTH TO BE 6'-0" SHORT BARS SHALL BE ELIMINATED BY EXTENDING THROUGH ADJACENT SLAB;
2. WHEN PLANS CALL FOR BOTTOM MAT REINFORCING TO BE CONTINUOUS REPLACE LAYOUT OF BOTTOM REINF. WITH LAYOUT SHOWN IN CASE "H" LAYOUT;
3. SEE DETAIL FOR PLACEMENT OF WITH REINF. (*) OVER COLUMNS;
4. SPAN SUPPORTING CONCENTRATED LOADS SHALL NOT HAVE BOTTOM BARS CUT SHORT.

MINIMUM REINFORCEMENT FOR :
CONTINUOUS HIGH CHAIR SHALL BE #2 TOP WIRE,#2LEG WIRE AT 8" o.c. AND SHALL BE SPACED:
-@4'-0" FOR #5 BARS, -@ 2'-6" FOR #4 BARS,
AND AT LEAST 4 ROWS IF BARS ARE MORE THAN 9'-0" LONG IF SUPPORTED BARS WITH CHAIRS ARE SUBSTITUTED FOR CONT. HIGH CHAIRS, THE SUPPORT SHALL BE #5 BARS SPACED AS NOTED ABOVE ON HIGH CHAIRS AT 4'-0" MAXIMUM.

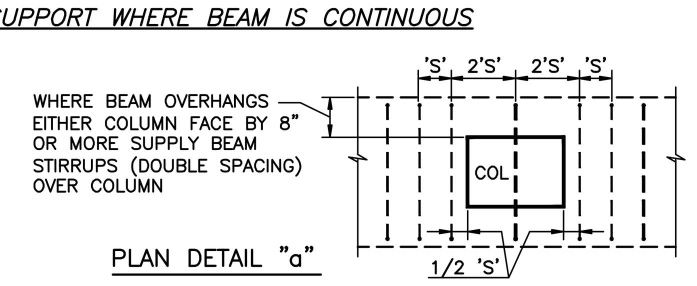
COLUMN STRIP



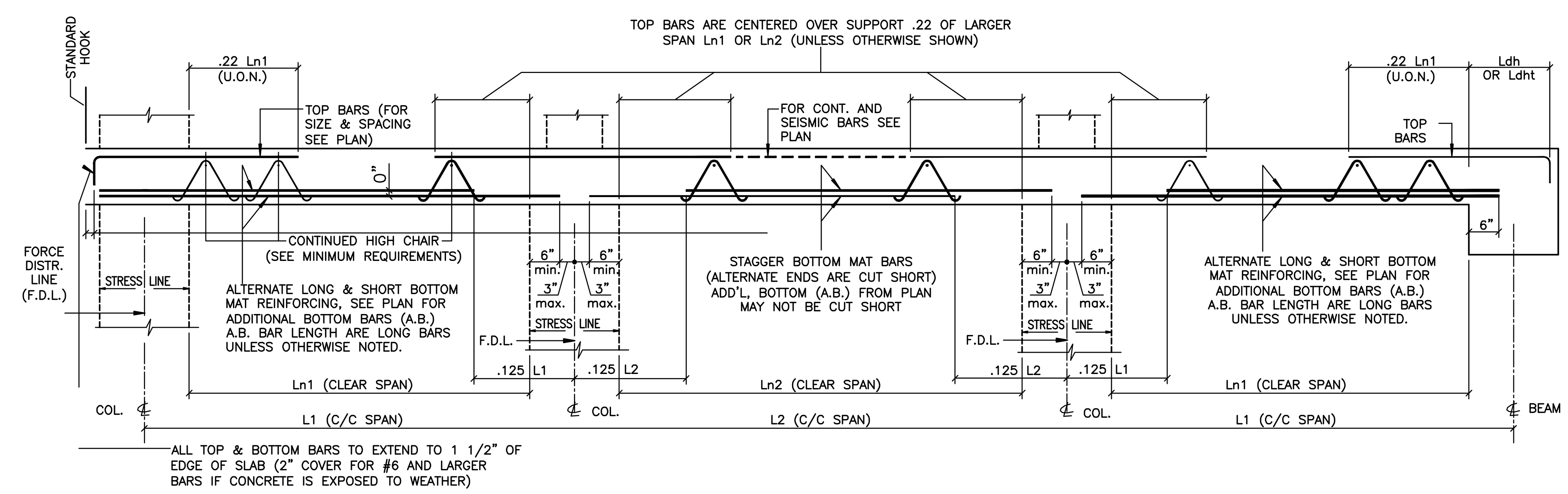
NOTE: FOR INDENTIFYING BEAM MARKS, SEE FLOOR PLANS.

ONLY NON-CONTINUOUS (N.C.) AND FULL LENGTH (F.L.) BAR DETAILS ARE SHOWN. FOR DETAILS OF CONTINUOUS BARS SEE CASE "H" OR CASE "V" LAYOUTS.

TYPICAL CONCRETE BEAM DETAIL



PLAN DETAIL "a"

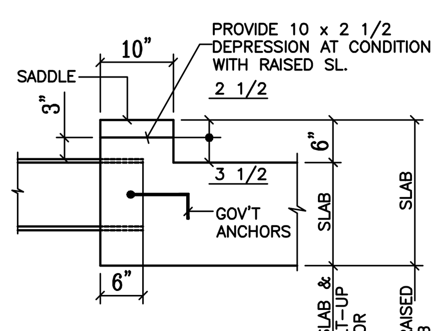


ALL TOP & BOTTOM BARS TO EXTEND TO 1 1/2" OF EDGE OF SLAB (2" COVER FOR #6 AND LARGER BARS IF CONCRETE IS EXPOSED TO WEATHER)

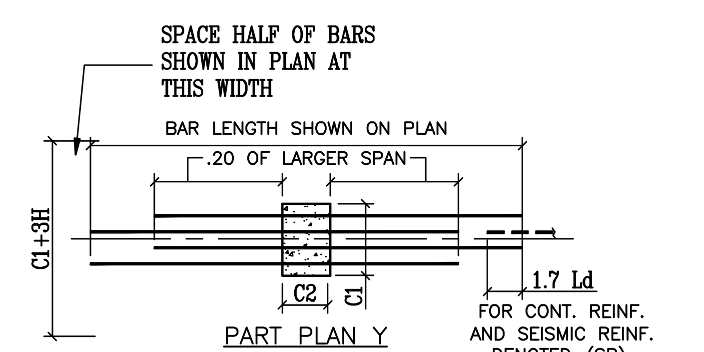
AT EDGE OR SLAB WITHOUT BEAMS — TYPICAL INTERIOR SUPPORT — TYPICAL INTERIOR SUPPORT — AT EDGE OR SLAB WITH BEAMS

MIDDLE STRIP

TYPICAL FLAT PLATE SLAB DETAILS (TWO WAY SLABS, OR FLAT SLAB)

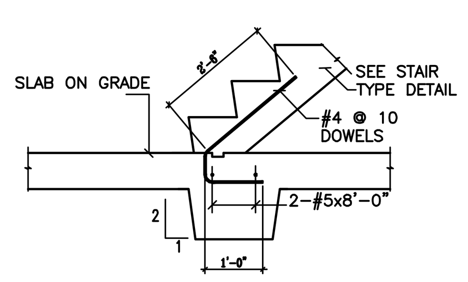


DETAIL OF ELEVATOR DIVIDER BEAM CONNECTION

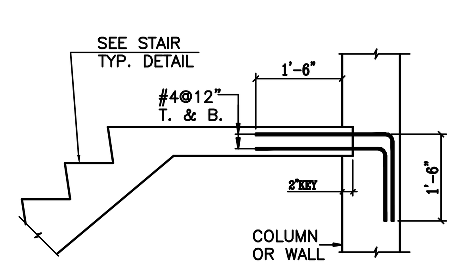


CONTRACTOR'S OPTION FOR STAGGERING TOP BARS.

AND SEISMIC REINFORCEMENT SPLICING DETAIL.

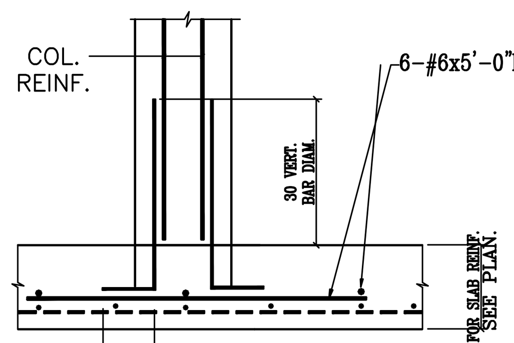


DETAIL AT START OF STAIR

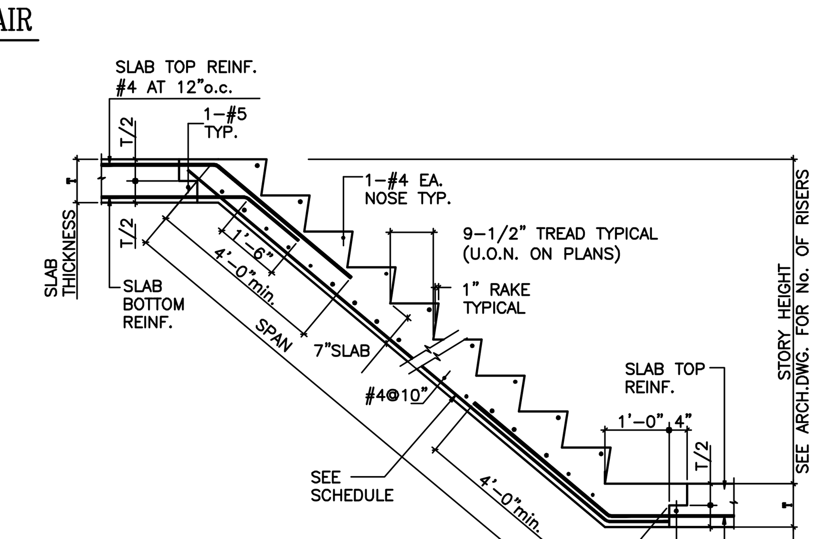


DETAIL OF PLATFORM KEYED

INTO COLUMN ENCASEMENT OR WALL



DETAIL OF POST SUPPORTED ON CONCRETE SLAB.



TYPICAL STAIR REINFORCEMENT.

SINGLE RUN STAIR

STAIR REINFORCING SCHEDULE (DESIGN LIVE LOAD =100 P.S.F.)

STAIR No.	REINF. AND SPACING.	REMARKS
ST1	#5 @ 6"	L=12'
ST2	#5 @ 10"	L=10'
ST3	#5 @ 12"	L=7'

* TOP AND BOTTOM LAYERS IN PLATFORM SHALL BE IN DIRECTION OF SUPPORTING RUN

STAIR NOTES:
1. FOR ORIENTATION, DIMENSIONS, NUMBER OF TREADS AND RISERS IN EACH RUN-SEE ARCH. DWGS.
2. FOR PORTIONS OF STAIRS POURED WITH FLOOR SLAB. SEE PLANS FOR SECTION AND DETAILS.

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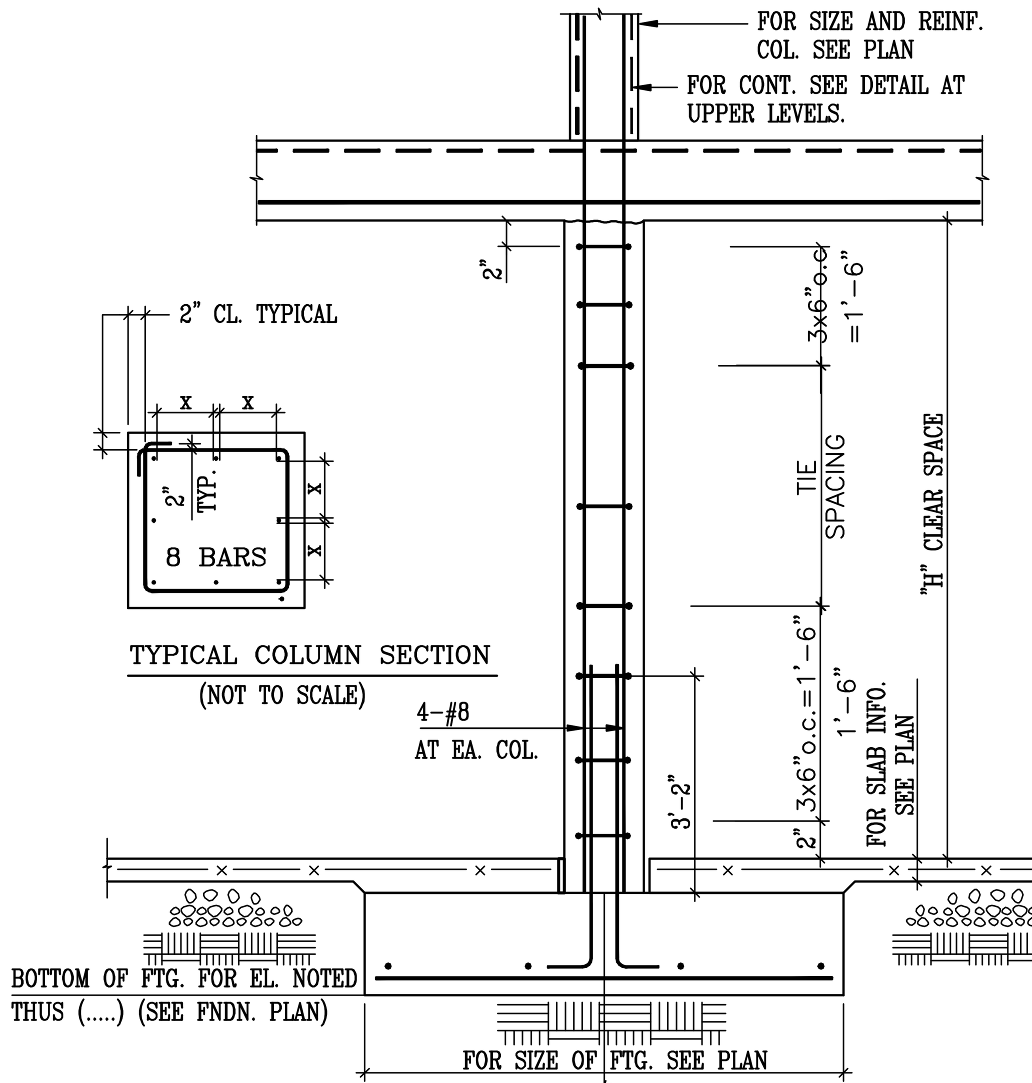
Scale: AS NOTED
Job No.: 13-18
Drawing No.: S-200.00



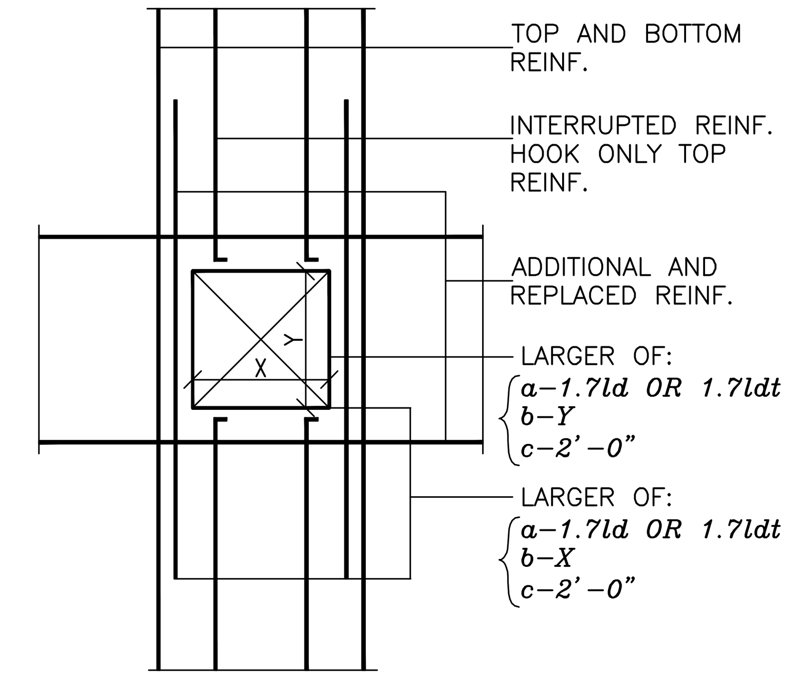
TYPICAL COLUMN DETAIL AT CELLAR LEVEL

COLUMN TIE SCHEDULE				
VERTICAL BAR SIZE	SIZE AND SPACING OF TIES IN INCHES (MAX. SPACING NOT TO EXCEED LEAST COLUMN DIMENSION NOR 16 BAR DIAM.)			
		#3	#4	#5
#6		12"	–	–
#8		14"	–	–
#10		18"	–	–
#11		–	18"	–
			–	–
				–

NOTE:

1. ALTERNATE TIES MAY BE OMITTED, WHERE "X" DISTANCE IS 6" OR LESS.

2. PLACE TIES WITH TIE SPACING AT 1/2 LENGTH *Lo*. *Lo* – SHALL NOT BE LESS THAN: H/6 (SEE DETAIL), MAX. COLUMN DIMENSION, NOR 13".



DETAIL OF ADDED REINFORCING AT OPNGS. IN FLOOR SLAB

NOTE: SEE PLAN FOR REINF. INFO.

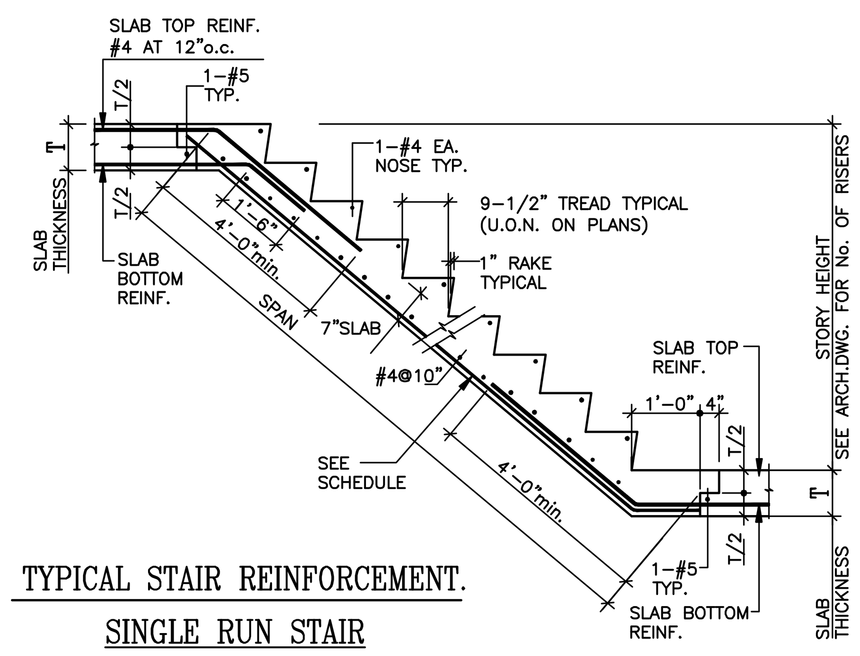
NOTES:

1. IF REINF. IS INTERRUPTED (TOP OR BOTTOM) 1/2 THE EQUIVALENT AREA SHALL BE REPLACED ON EACH SIDE OF OPNG. (1–#4 min. EA SIDE).

2. IF OPENING IS LOCATED IN AREA OF NO TOP REINF. & OPENING IS LARGER THEN 16"x16" PROVIDE 1–#4 TOP EA. SIDE OF OPENING.

3. IF OPENING IS SMALLER THAN SPACING OF SLAB BARS, NO ADDITIONAL REINF. IS REQ'D. SLAB BARS TO BE PLACED AT ADGES OF OPENING.

4. IF OPNG. IS NEAR OR AGAINST EXTERIOR BEAM OR COLUMNS & REINF. CANNOT BE EXTENDED, HOOK ADDITIONAL BARS.



TYPICAL STAIR REINFORCEMENT.

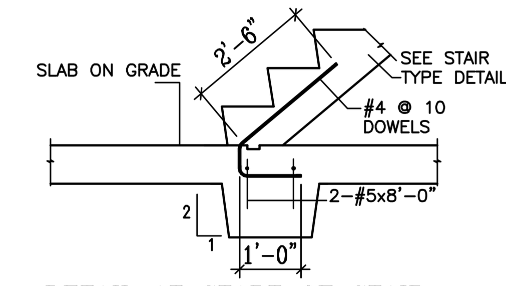
SINGLE RUN STAIR

STAIR REINFORCING SCHEDULE (DESIGN LIVE LOAD =100 P.S.F.)		
STAIR No.	REINF. AND SPACING.	REMARKS
ST1	#5 @ 12"	
ST2	#5 @ 6"	
ST3	#5 @ 10"	

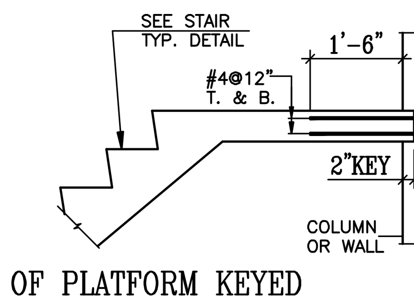
* TOP AND BOTTOM LAYERS IN PLATFORM SHALL BE IN DIRECTION OF SUPPORTING RUN

STAIR NOTES:

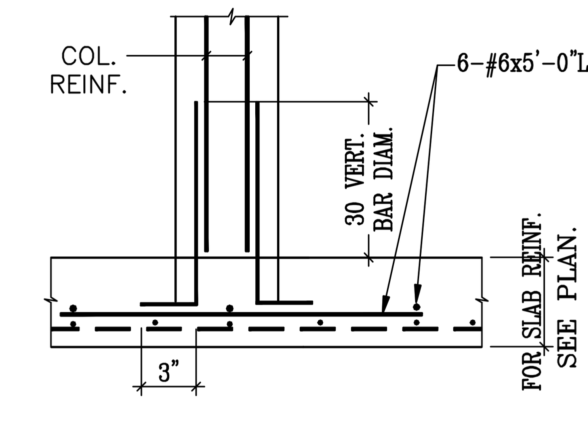
1. FOR ORIENTATION, DIMENSIONS, NUMBER OF TREADS AND RISERS IN EACH RUN–SEE ARCH. DWGS.
2. FOR PORTIONS OF STAIRS POURED WITH FLOOR SLAB. SEE PLANS FOR SECTION AND DETAILS.



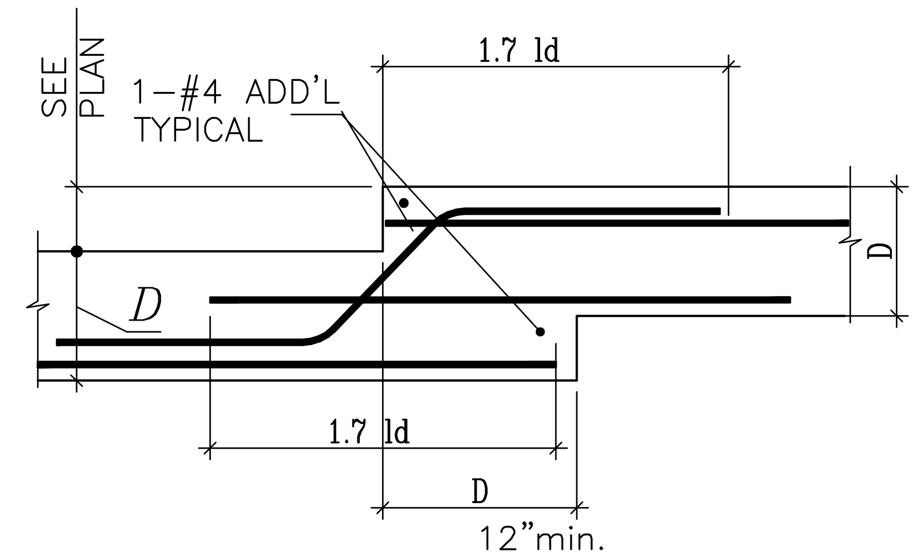
DETAIL AT START OF STAIR

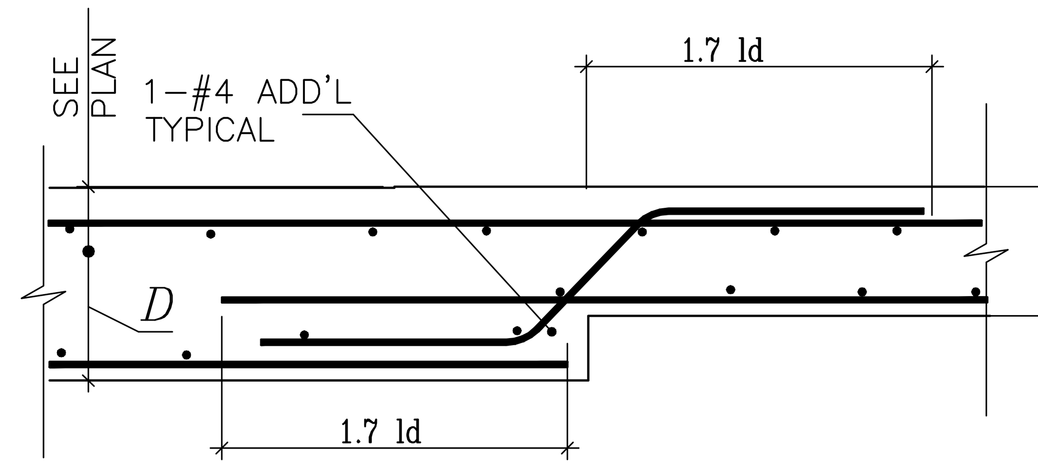


DETAIL OF PLATFORM KEYED INTO COLUMN ENCASEMENT OR WALL

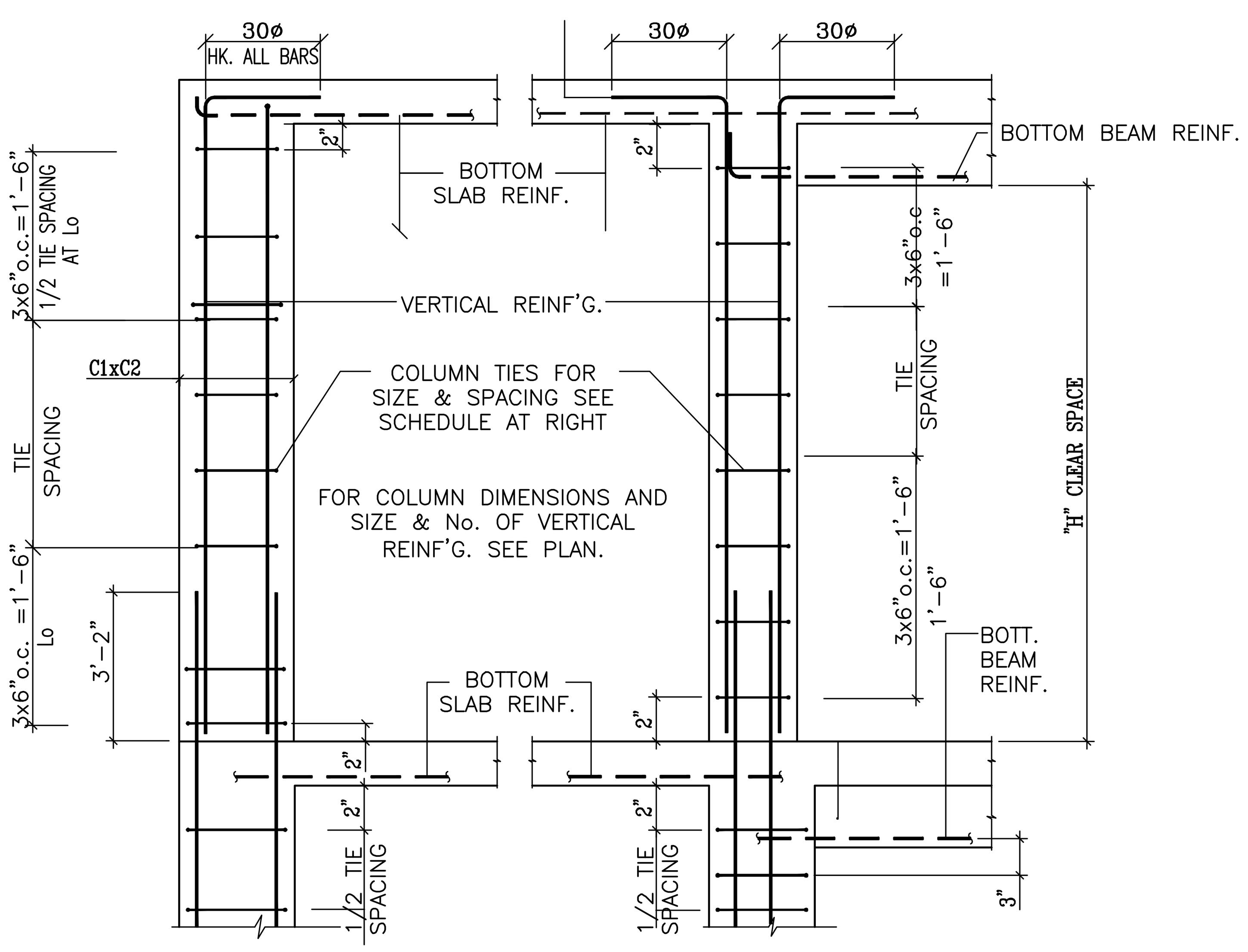


DETAIL OF POST SUPPORTED ON CONCRETE SLAB.





DETAILS OF DROP IN SLAB



TYPICAL COLUMN DETAIL AT UPPER LEVELS.

NOTES FOR CONTINUOUS REINF. DETAIL:

1. IF BARS ARE SPLICED AT ANY LOCATIONS OTHER THAN THOSE INDICATED PROVIDE:
   a) 1.3 Ld (OR 1.3 Ldt) IF NO MORE THAN 50% OF BARS ARE SPLICED AT ANY ONE LOCATION AND
   b) 1.7 Ld (OR 1.7 Ldt) IF MORE THAN 50% OF BARS ARE SPLICED AT ANY ONE LOCATION.

2. THE DISTANCE BETWEEN SPLICED BARS SHALL NOT EXCEED 6" NOR 1/5 OF THE SPLICE LENGTH.

3. IN CASE OF SPAN SUPPORTING CONCENTRATED LOAD RELOCATE BOTTOM REINF SPLICE AWAY FROM THIS LOAD OR (USE 1.7 Ld SPLICES).

REINFORCEMENT ANCHORAGE SCHEDULE*

*TABULATES VALUES ARE GIVEN IN INCHES AND ARE CALCULATED FOR fy 60,000 P.S.I.

	STONE CONCRETE											
C'c	3000 P.S.L.				4000 P.S.L.				5000 P.S.L.			
BAR SIZE	ld	ldt	ldh	ldc	ld	ldt	ldh	ldc	ld	ldt	ldh	ldc
#3	12	13	6/8	8	12	13	6/7	8	12	13	6/6	8
#4	12	17	8/11	11	12	17	7/9	9	12	17	6/8	9
#5	15	21	10/14	14	15	21	8/12	12	15	21	7/11	11
#6	19	27	11/16	16	18	25	10/14	14	18	25	9/13	14
#7	26	37	13/19	19	23	32	12/17	17	21	29	10/15	16
#8	35	48	15/22	22	30	42	13/19	19	27	38	12/17	18
#9	44	61	17/25	25	38	53	15/21	21	34	48	13/19	20
#10	56	78	19/28	28	48	67	17/24	24	43	60	15/22	23
#11	68	96	22/31	31	59	83	19/27	27	53	74	17/24	25
NOTES	A & B		C	D	A & B		C	D	A & B		C	D

GLOSSARY:

- *ld* = DEVELOPMENT LENGTH (IN.) = LENGTH REQUIRED TO ANCHOR REINFORCING AT EACH END;
- *ldt* = DEVELOPMENT LENGTH (IN.) = LENGTH REQUIRED TO ANCHOR TOP BARS HAVING MORE THAN 12" OF FRESH CONCRETE PLACED UNDER THEM;
- *ldh* = DEVELOPMENT LENGTH (IN.) OF HOOKED BARS (TO PERIMETER OF HOOK);
- *ldc* = DEVELOPMENT LENGTH (IN.) FOR BARS IN COMPRESSION.

NOTE A:

USE Ld TABULATED VALUES WHEN BARS HAVE LESS THAN 12" IF CONCRETE BELOW BOTTOM OF BARS (i.e.: FOR BOTTOM REINFORCING AND FOR TOP REINFORCING IN SHALLOW BEAMS AND SLABS). USE Ldt WHEN BARS HAVE MORE THAN 12" OF FRESHLY PLACED CONCRETE BELOW BOTTOM OF BARS.

NOTE B:

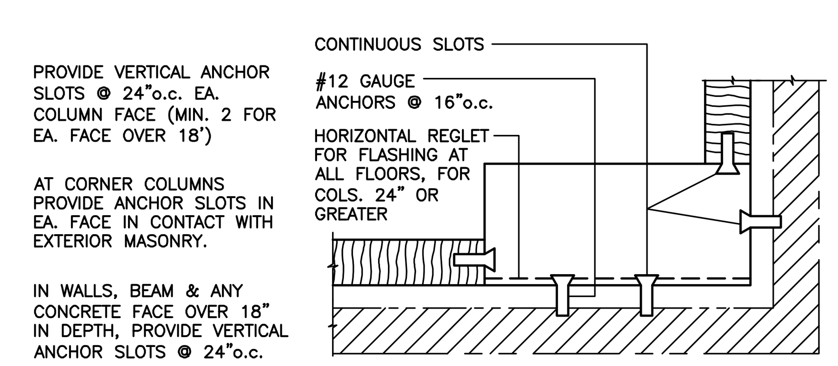
TABULATED VALUES MAY BE REDUSED BY 20% IF BARS ARE SPACED MORE THAN 6" o/c AND ARE AT LEAST 3" FROM PARALLEL CONCRETE EDGES.

NOTE C:

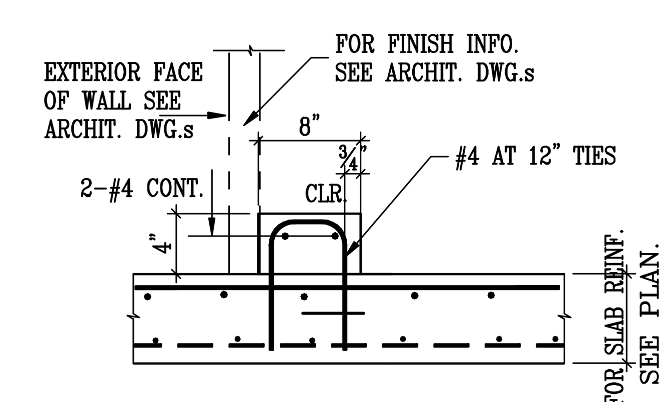
LOWER VELUES OF DEVELOPMENT LENGHT OF HOOKED BARS, ldh, MAY BE USED IF TAIL EXTENSION IF THE HOOK HAS AT LEAST 2" COVER AND CONCRETE COVER TO SIDE OF HOOK IS AT LEAST 2 1/2" THICK. OTHERWISE USE HIGHER ldh VALUES TABULATED.

NOTE D:

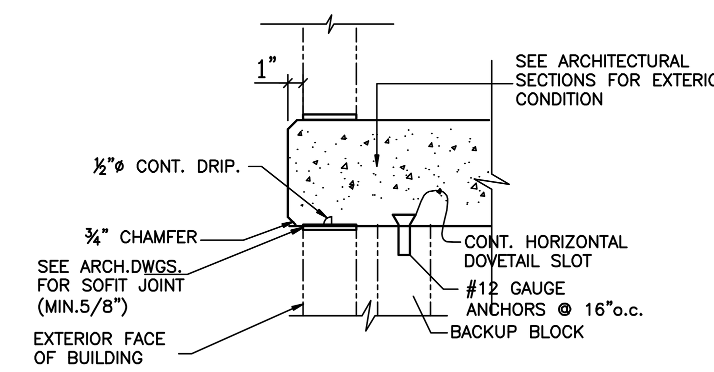
HOOKS SHALL NOT BE CONSIDERED EFFECTIVE IN REDUCED Ldc VALUES (COMPRESSION DEVELOPMENT LENGTH).



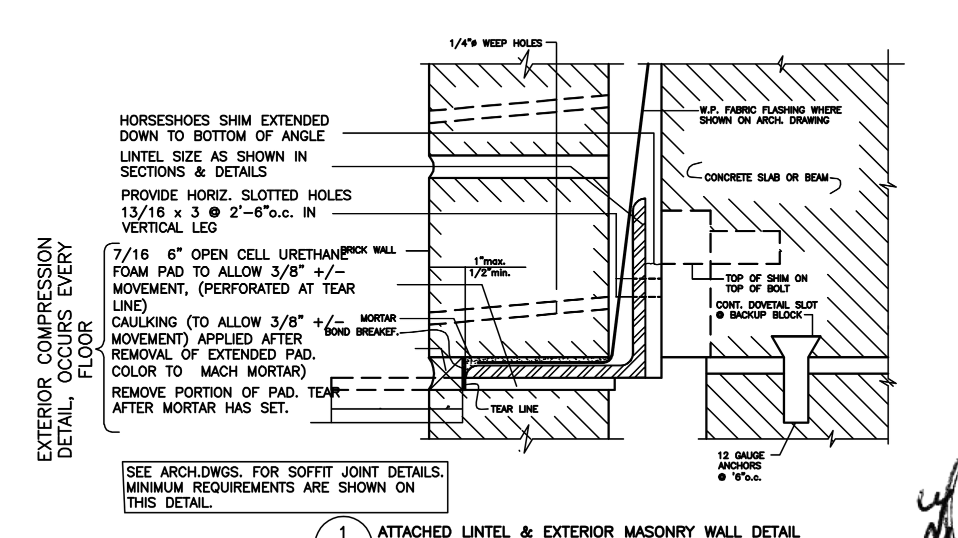
METHOD OF ANCHORING MASONRY TO CONCRETE WALLS, BEAMS & COLUMNS



DETAIL OF EXTERIOR WALL CURB ON CONCRETE SLAB.

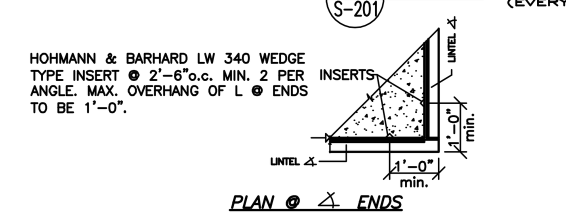


EXTERIOR MASONRY WALL DETAIL
(AT EXPOSED CONCRETE EDGE)



1 S-201 ATTACHED LINTEL & EXTERIOR MASONRY WALL DETAIL
(EVERY FLOOR)

HOHMANN & BARHARD LW 340 WEDGE TYPE INSERT @ 2'–6"o.c. MIN. 2 PER ANGLE. MAX. OVERHANG OF L @ ENDS TO BE 1'–0".



PLAN @ ∠ ENDS

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

No.	Revision	Date
0	For Coordination	9/27/11

The architect and/or engineer shall not have control or charge of and shall not be responsible for construction means, methods, deviation, techniques, sequences or procedures, or for safety precautions and programs in connection with the work for the acts or omission of the contractor subcontractors or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with contract documents

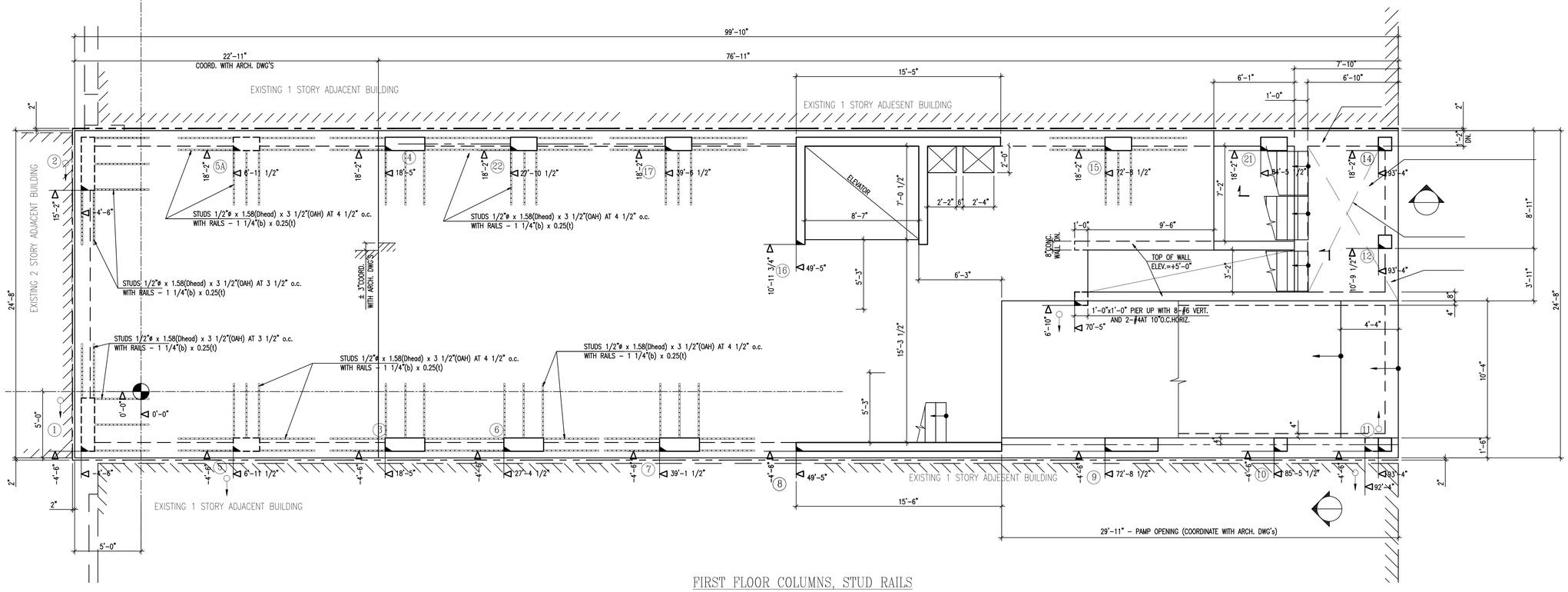
Architect and/or engineer not retained for inspections or supervision. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with work. Do not scale drawing, use dimensions. Contractor shall obtain all necessary permits from the municipal agencies having jurisdiction before starting work and he shall obtain either a certificate of completion or a certificate of occupancy upon completion of work.

Project: 415 Manhattan Avenue Brooklyn N.Y. 11229

LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

Drawing Title: TYPICAL DETAILS II.

Drawn: LK
Checked: LK
Date: 6/02/13
Scale: AS NOTED
Job No.: 13-18
Drawing No.: S-201.00



FIRST FLOOR COLUMNS, STUD RAILS AND OPENINGS LAYOUT PLAN.

NOTES:

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB. TOP OF FIRST SLAB EL.=+5'-10" ABOVE GROUND LEVEL ELEVATION 0'-0" THAT CORRESPONDS TO BROOKLYN HIGHWAY DATUM ELEVATION 11.97'(COORDINATE WITH ARCH. DWG's) UNLESS OTHERWISE NOTED THUS [±] ON PLAN FROM TOP OF FLOOR SLAB.
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.
5. ALL STAIRS LAY OUT, LOCATIONS AND DIMENSION COORDINATE WITH ARCHITECTURAL DRAWINGS.

No.	Revision	Date
0	For Coordination	9/27/11

Architect and/or engineer not retained for construction supervision and shall not be responsible for field dimensions and conditions at the site and discrepancies to the architect before proceeding with work. Do not scale drawing, use dimensions. Contractor shall obtain all necessary permits, approvals and certificates of hearing jurisdiction before starting work and he shall obtain either a certificate of completion or a certificate of occupancy upon completion of work.

The architect and/or engineer shall not be responsible for construction means, methods, deviation, techniques, sequences or procedures or safety precautions and programs in connection with the work for the acts or omission of the contractor subcontractors or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with contract documents

Project:

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Brooklyn N.Y. 11229

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Drawing Title

FIRST FLOOR COLUMNS, STUD RAILS AND OPENINGS LAYOUT PLAN.

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-301.00

4 OF 19

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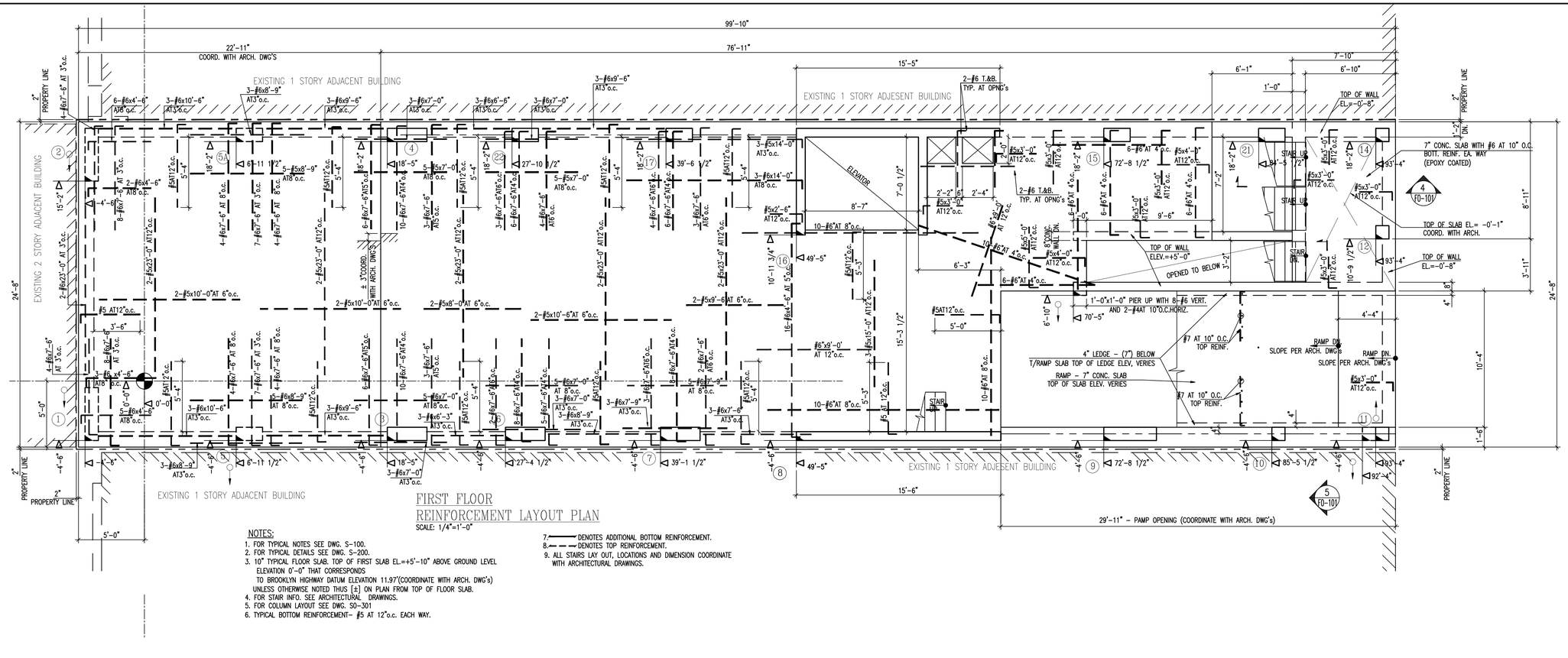
THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.



FIRST FLOOR REINFORCEMENT LAYOUT PLAN

SCALE: 1/4"=1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB. TOP OF FIRST SLAB EL.=+5'-10" ABOVE GROUND LEVEL ELEVATION 0'-0" THAT CORRESPONDS TO BROOKLYN HIGHWAY DATUM ELEVATION 11.97'(COORDINATE WITH ARCH. DWG's) UNLESS OTHERWISE NOTED THUS [±] ON PLAN FROM TOP OF FLOOR SLAB.
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.
5. FOR COLUMN LAYOUT SEE DWG. SO-301
6. TYPICAL BOTTOM REINFORCEMENT- #5 AT 12"o.c. EACH WAY.
7. DENOTES ADDITIONAL BOTTOM REINFORCEMENT.
8. DENOTES TOP REINFORCEMENT.
9. ALL STAIRS LAY OUT, LOCATIONS AND DIMENSION COORDINATE WITH ARCHITECTURAL DRAWINGS.

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

STATE OF NEW YORK · LEONID KRUPNIK · 065898 · LICENSED PROFESSIONAL ENGINEER

No.	Revision	Date
0	For Coordination	9/27/11

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Architect and/or engineer not retained for construction inspection. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with the work.
Do not scale drawing, use dimensions. Contractor shall obtain all necessary permits and approvals from the governing jurisdiction before starting work and he shall obtain either a certificate of completion or a certificate of occupancy upon completion of work.

Project:
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139 Fulton Street, Suite 214
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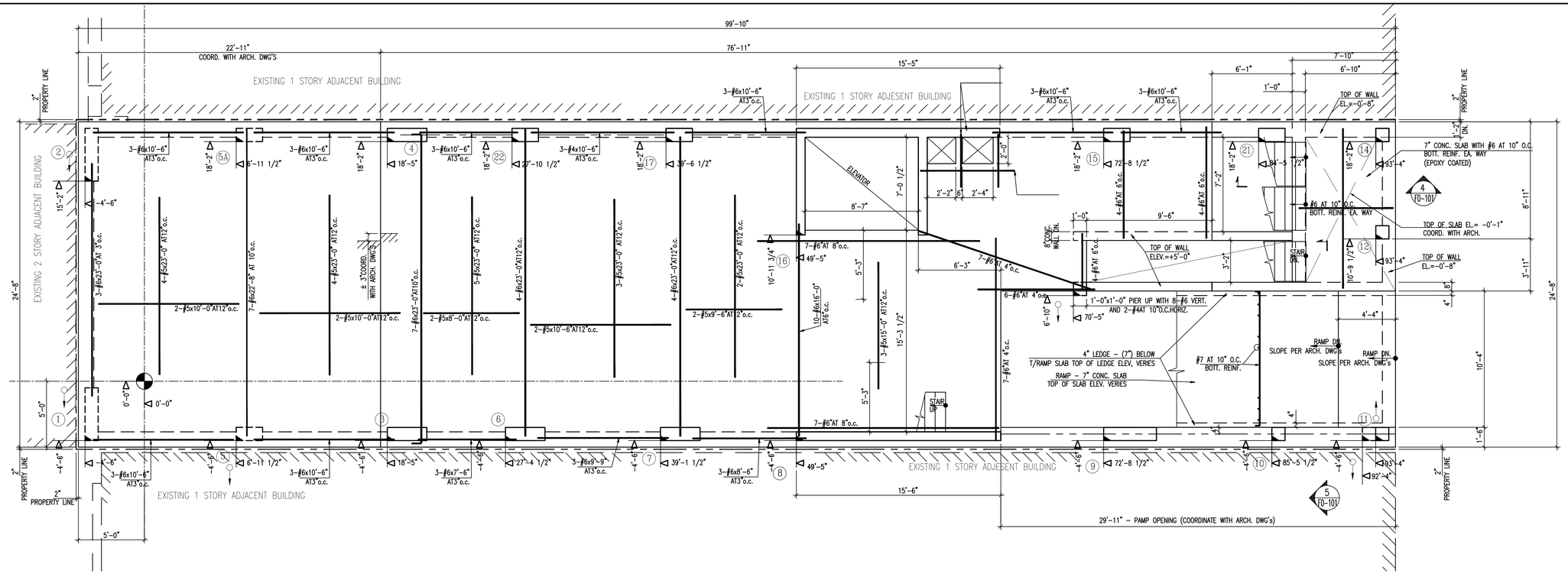
Drawing Title
FIRST FLOOR TOP REINFORCEMENT LAYOUT PLAN

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-301a.00



FIRST FLOOR BOTTOM REINFORCEMENT LAYOUT PLAN

SCALE: 1/4"=1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB. TOP OF FIRST SLAB EL.=+5'-10" ABOVE GROUND LEVEL ELEVATION 0'-0" THAT CORRESPONDS TO BROOKLYN HIGHWAY DATUM ELEVATION 11.97'(COORDINATE WITH ARCH. DWG's) UNLESS OTHERWISE NOTED THUS [±] ON PLAN FROM TOP OF FLOOR SLAB.
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.
5. FOR COLUMN LAYOUT SEE DWG. S0-301
6. TYPICAL BOTTOM REINFORCEMENT- #5 AT 12"o.c. EACH WAY.
7. ——— DENOTES ADDITIONAL BOTTOM REINFORCEMENT.
8. — — — DENOTES TOP REINFORCEMENT.
9. ALL STAIRS LAY OUT, LOCATIONS AND DIMENSION COORDINATE WITH ARCHITECTURAL DRAWINGS.

STATE OF NEW YORK · LEONID KRUPNIK · 065936 · LICENSED PROFESSIONAL ENGINEER

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

No.	Revision	Date
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Architect and/or engineer not retained for construction supervision. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with the work.
Do not scale drawing, use dimensions.
Contractor shall obtain all necessary permits from the authorities having jurisdiction before starting work and he shall obtain either a certificate of completion or a temporary of occupancy upon completion of work.

The architect and/or engineer shall not be responsible for the contractor's methods, deviation, techniques, sequences or procedures or for safety precautions and precautions in connection with the work for the acts or omission of the contractor subcontractors or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with contract documents

Project:
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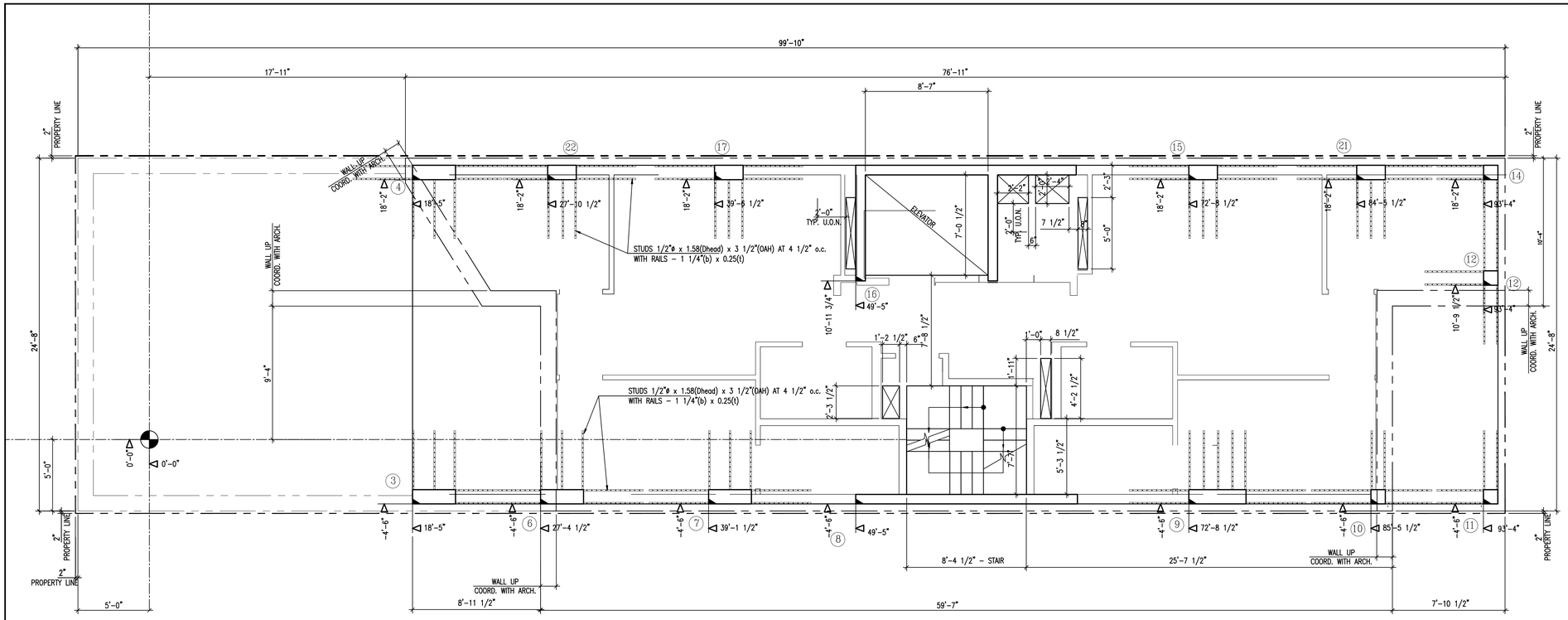
Drawing Title
FIRST FLOOR BOTTOM REINFORCEMENT LAYOUT PLAN

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-301b.00

5 OF 19



SECOND FLOOR COLUMNS, STUD RAILS AND OPENINGS LAYOUT PLAN.

NOTES:
1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB. TOP OF FIRST SLAB EL.=+14'-10" ABOVE GROUND LEVEL
   ELEVATION 0'-0" THAT CORRESPONDS
   TO BROOKLYN HIGHWAY DATUM ELEVATION 11.97'(COORDINATE WITH ARCH. DWG's)
   UNLESS OTHERWISE NOTED THUS [±] ON PLAN FROM TOP OF FLOOR SLAB.
4. ALL STAIRS LAY OUT, LOCATIONS AND DIMENSION COORDINATE
   WITH ARCHITECTURAL DRAWINGS.

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

STATE OF NEW YORK · LEONID KRUPNIK · 065608 · LICENSED PROFESSIONAL ENGINEER

No.	Revision	Date
0	For Coordination	9/27/11

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Do not scale drawing, use dimensions.
Contractor shall obtain all necessary permits from the municipal authorities having jurisdiction before starting work and he shall obtain either a certificate of compliance or a certificate of occupancy upon completion of work.

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139 Fulton Street, Suite 214
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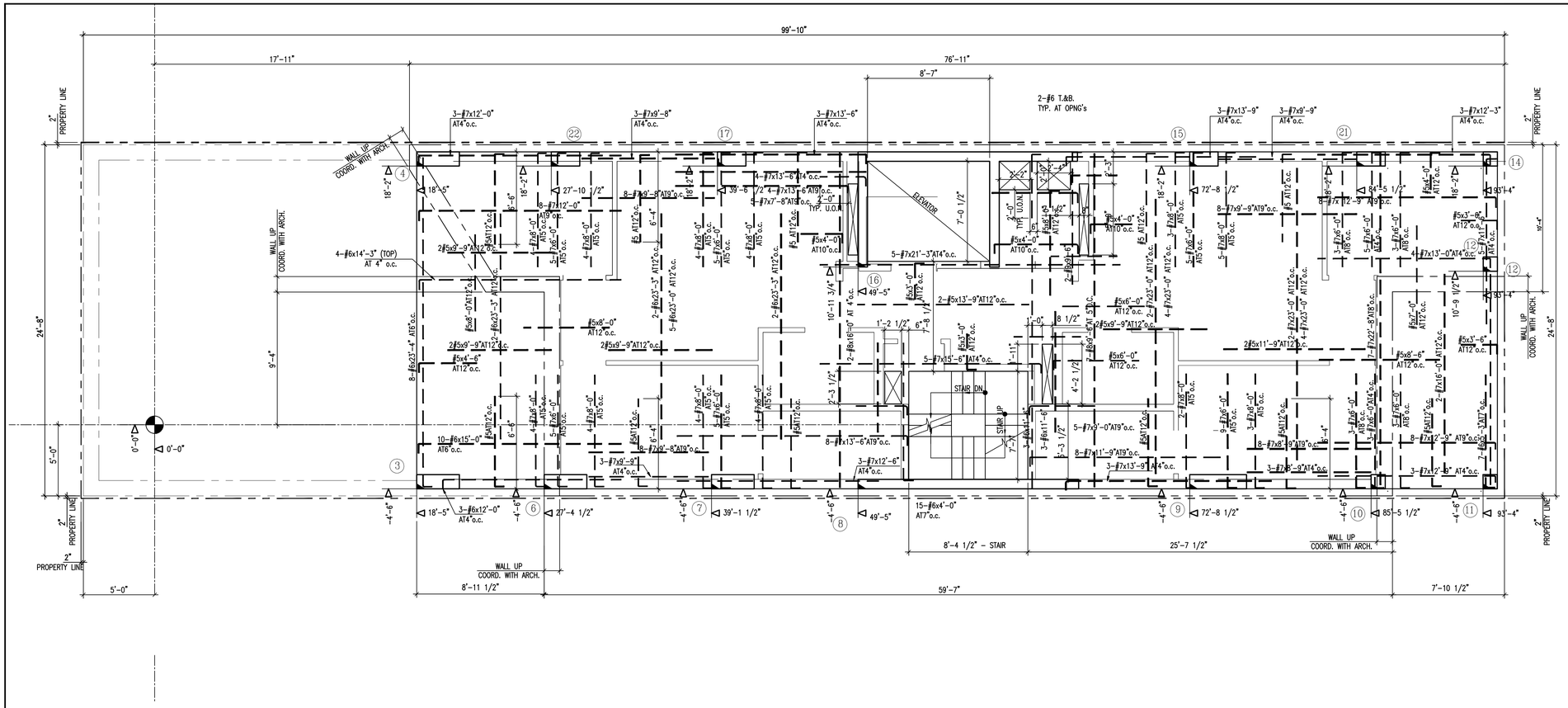
Drawing Title
SECOND FLOOR COLUMNS, STUD RAILS AND OPENINGS LAYOUT PLAN

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-302.00



SECOND FLOOR TOP REINFORCEMENT LAYOUT PLAN

SCALE: 1/4"=1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB. TOP OF SECOND FLOOR SLAB ELEVATION +14'-10" ABOVE GROUND LEVEL EL. =0'-0"
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.
5. FOR COLUMN LAYOUT SEE DWG. S0-302A.
6. TYPICAL BOTTOM REINFORCEMENT- #5 AT 12"o.c. EACH WAY.

7. — — — DENOTES TOP REINFORCEMENT.

No.	Revision	Date
0	For Coordination	9/27/11

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Project:

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LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
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(212) 393-9679

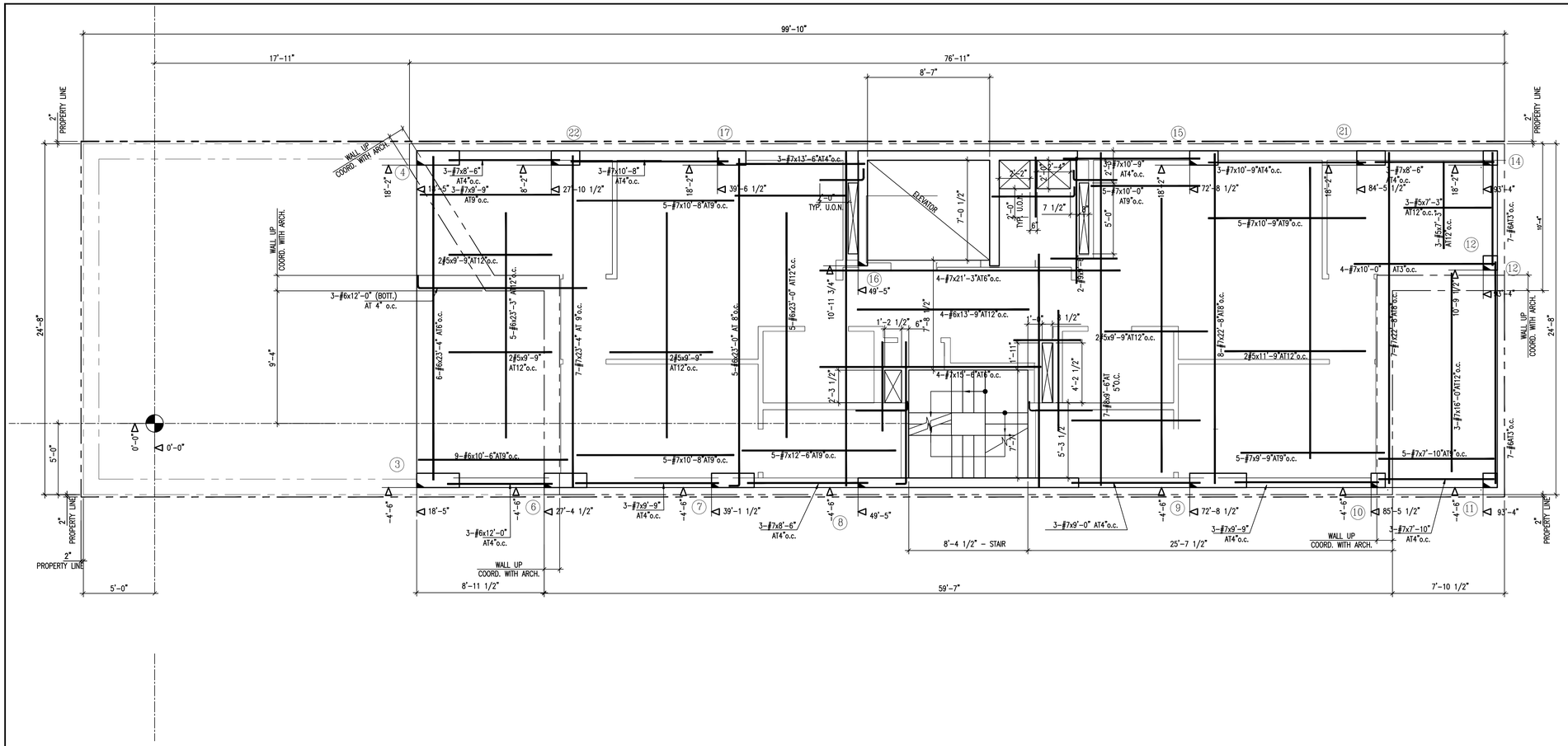
Drawing Title

SECOND FLOOR TOP REINFORCEMENT LAYOUT PLAN

STATE OF NEW YORK · LEONID KRUPNIK · 065595 · LICENSED PROFESSIONAL ENGINEER

THE DESIGN.DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-302a.00



SECOND FLOOR BOTTOM REINFORCEMENT LAYOUT PLAN

SCALE: 1/4"=1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB. TOP OF SECOND FLOOR SLAB ELEVATION +14'-10" ABOVE GROUND LEVEL EL. =0'-0"
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.
5. FOR COLUMN LAYOUT SEE DWG. S0-302A.
6. TYPICAL BOTTOM REINFORCEMENT- #5 AT 12"o.c. EACH WAY.

7. DENOTES ADDITIONAL BOTTOM REINFORCEMENT.

No.	Revision	Date
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Do not scale drawing, use dimensions. Contractor shall obtain all necessary permits, pay all fees and comply with all governing jurisdiction before starting work and he shall obtain either a certificate of completion or a certificate of occupancy upon completion of work.

Project:

415 Manhattan Avenue
Brooklyn N.Y. 11229

LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

Drawing Title

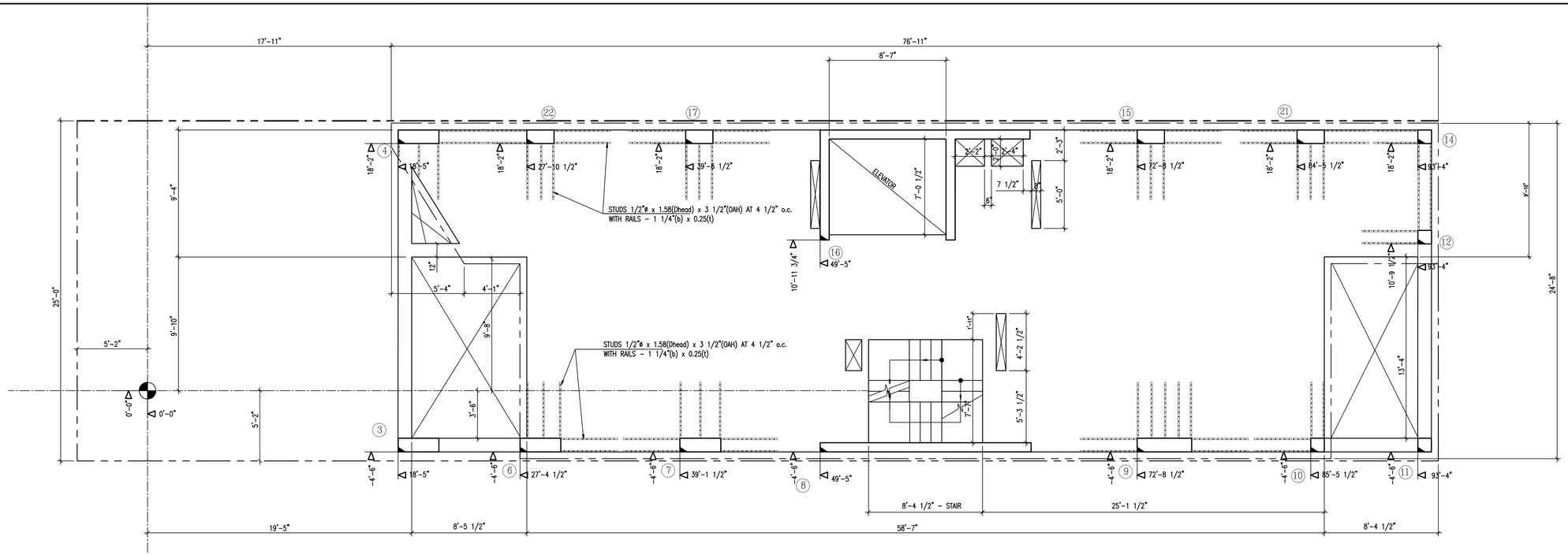
SECOND FLOOR BOTTOM REINFORCEMENT LAYOUT PLANS

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-302b.00

9 OF 19

STATE OF NEW YORK · LEONID KRUPNIK · 065639 · LICENSED PROFESSIONAL ENGINEER

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.



TYPICAL (THIRD THRU FIFTH) FLOORS
COLUMNS, STUD RAILS AND OPENINGS
LAYOUT PLAN.

SCALE: 1/4" = 1'-0"

NOTES:
1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB.
   TOP OF SLAB ELEVATION AT 3RD FL.=+23'-10",
   AT 4TH FL.=+32'-10" AND
   AT 5TH FL.=+41'-10"
   FROM GROUND LEVEL ELEVATION ±0'-0".
   UNLESS OTHERWISE NOTED THUS [±] ON PLAN
   FROM TOP OF SLAB SHOWN ABOVE.
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.

STATE OF NEW YORK · LEONID KRUPNIK · 065038 · LICENSED PROFESSIONAL ENGINEER

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

No.	Revision	Date
0	For Coordination	9/27/11

Architect and/or engineer not retained for construction supervision. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with the work.
Do not scale drawing, use dimensions.
Contractor shall obtain all necessary permits from the authority having jurisdiction before starting work and he shall obtain either a certificate of compliance or a certificate of occupancy upon completion of work.

The architect and/or engineer shall not be responsible for construction means, methods, deviation, techniques, sequences or procedures or for safety precautions and programs in connection with the work for the acts or omission of the contractor subcontractors or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with contract documents

Project:
415 Manhattan Avenue
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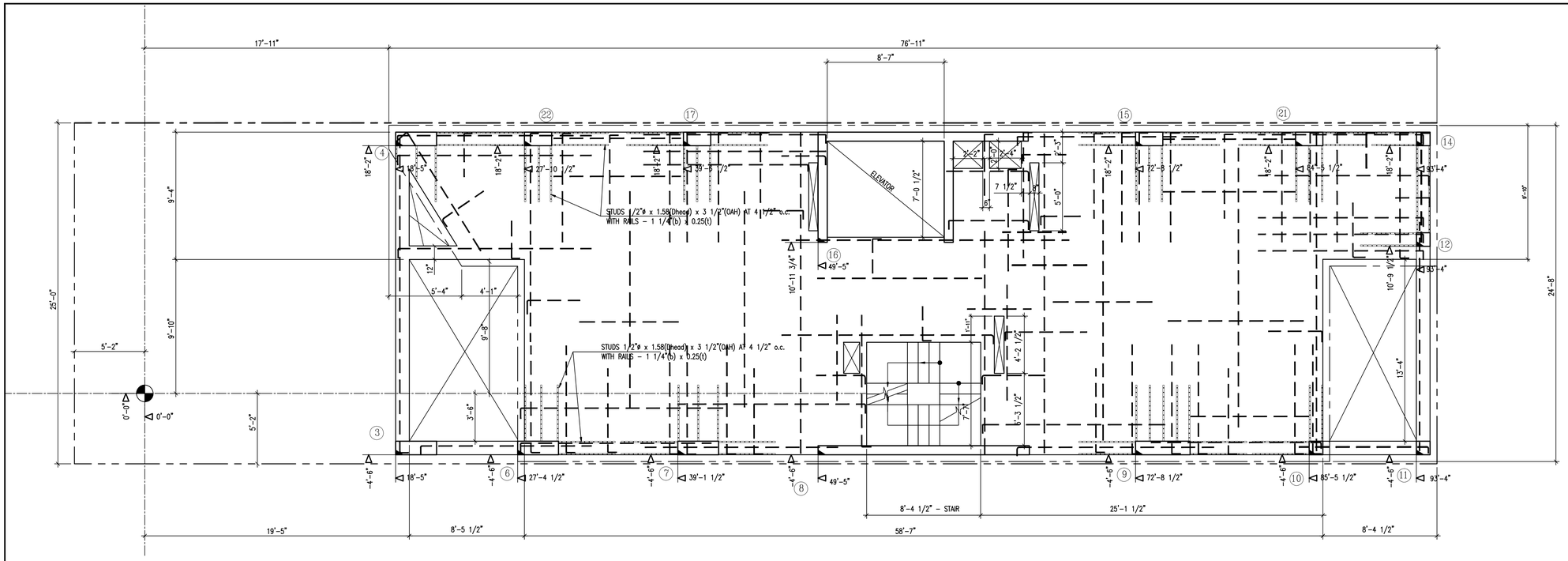
Drawing Title
TYPICAL (THIRD THRU SIXTH) FLOORS
REINFORCEMENT, COLUMNS
AND OPENINGS LAYOUT PLANS

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-303.00



TYPICAL (THIRD THRU FIFTH) FLOORS
TOP REINFORCEMENT LAYOUT PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB.
   TOP OF SLAB ELEVATION AT 3RD FL.=+23'-10",
   AT 4TH FL.=+32'-10",
   AT 5TH FL.=+41'-10" AND
   FROM GROUND LEVEL ELEVATION ±0'-0".
   UNLESS OTHERWISE NOTED THUS [±] ON PLAN FROM TOP OF SLAB SHOWN ABOVE.
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.
5. TYPICAL BOTTOM REINFORCEMENT- #5 AT 12"o.c. EACH WAY.
6. ⌐– – – ⌐ DENOTES TOP REINFORCEMENT.

No.	Revision	Date
0	For Coordination	9/27/11

Architect and/or engineer not retained for construction supervision. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with the work.
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Project:
415 Manhattan Avenue
Brooklyn N.Y. 11229

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139 Fulton Street, Suite 214
New York, NY 10038
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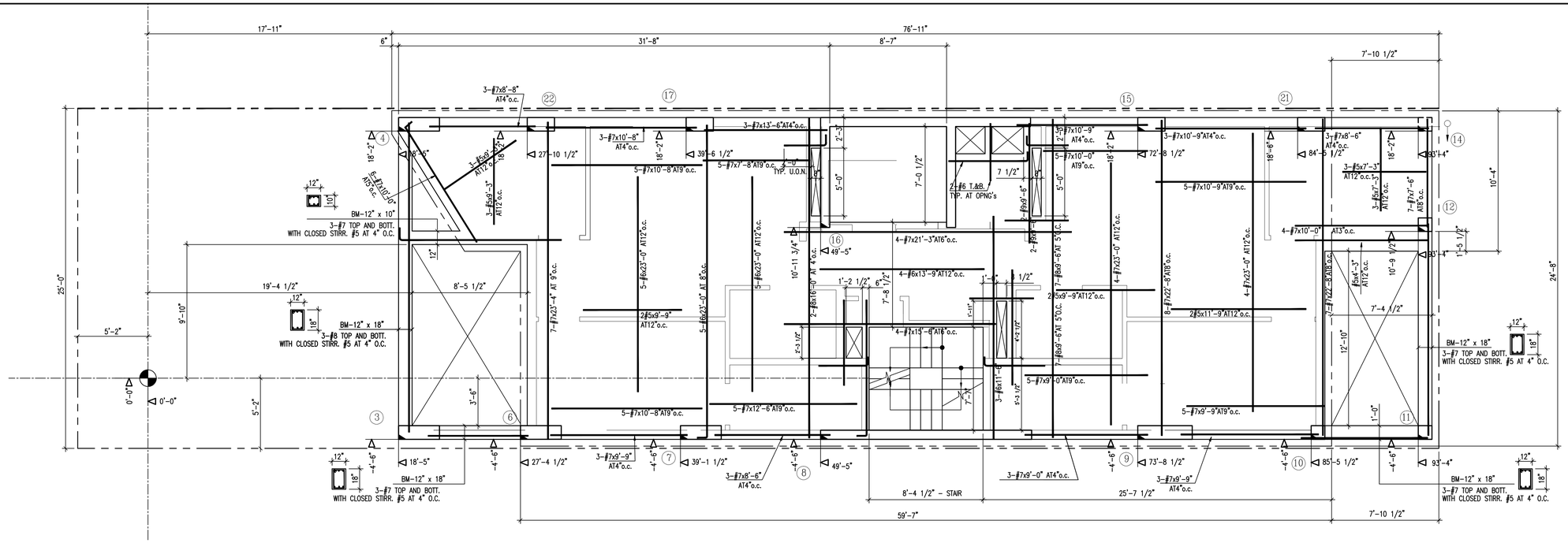
Drawing Title
TYPICAL (THIRD THRU FIFTH) FLOORS
TOP REINFORCEMENT LAYOUT
PLANS

STATE OF NEW YORK · LEONID KRUPNIK · 065639 · LICENSED PROFESSIONAL ENGINEER

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-303a.00



TYPICAL (THIRD THRU FIFTH) FLOORS BOTTOM REINFORCEMENT LAYOUT PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB.
   TOP OF SLAB ELEVATION AT 3RD FL.=+23'-10",
   AT 4TH FL.=+32'-10",
   AT 5TH FL.=+41'-10" AND
   FROM GROUND LEVEL ELEVATION ±0'-0".
   UNLESS OTHERWISE NOTED THUS [±] ON PLAN FROM TOP OF SLAB SHOWN ABOVE.
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.
5. TYPICAL BOTTOM REINFORCEMENT- #5 AT 12"o.c. EACH WAY.
6. ⟶ DENOTES ADDITIONAL BOTTOM REINFORCEMENT.

No.	Revision	Date
0	For Coordination	9/27/11

Architect and/or engineer not retained for construction supervision. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with the work.
Do not scale drawing, use dimensions.
Contractor shall obtain all necessary permits, approvals and certificates having jurisdiction before starting work and he shall obtain either a certificate of completion or a certificate of occupancy upon completion of work.

The architect and/or engineer shall not be responsible for construction means, methods, deviation, techniques, sequences or procedures or for safety precautions and programs in connection with the work for the acts or omission of the contractor subcontractors or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with contract documents

Project:
415 Manhattan Avenue
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LEONID KRUPNIK P.E.
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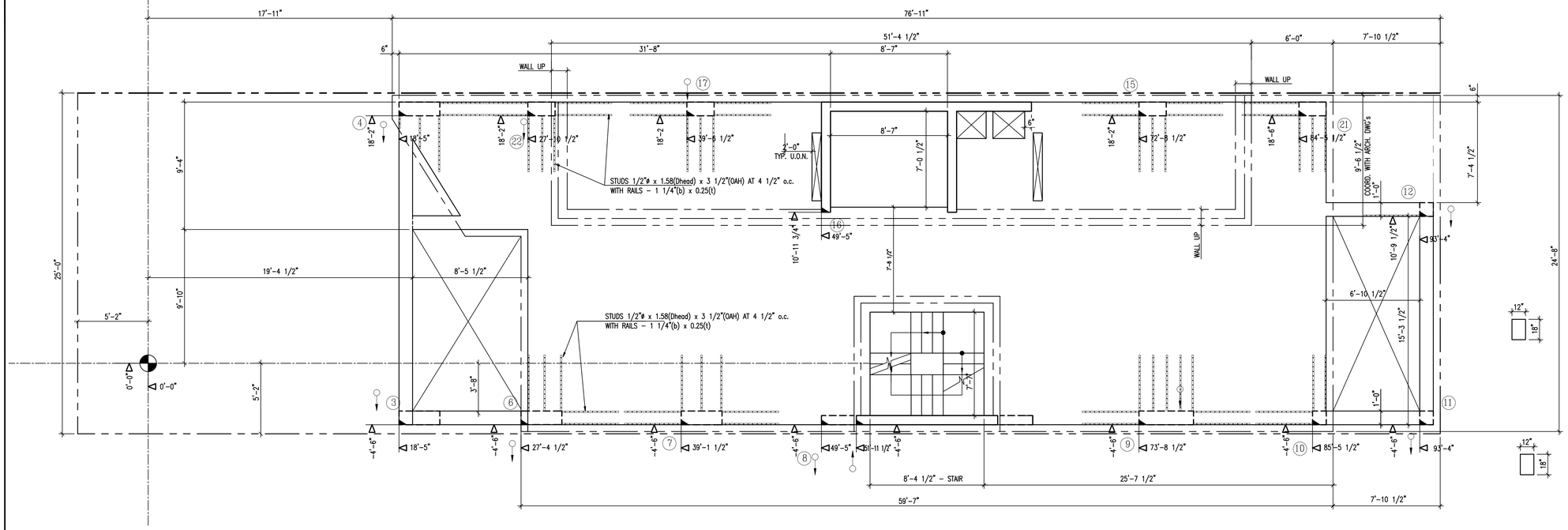
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

Drawing Title
TYPICAL (THIRD THRU SIXTH) FLOORS BOTTOM REINFORCEMENTAND LAYOUT PLAN

STATE OF NEW YORK · LEONID KRUPNIK · 065898 · LICENSED PROFESSIONAL ENGINEER

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-303b.00



ROOF STUD RAILS, COLUMNS AND OPENINGS LAYOUT PLAN.

SCALE: 1/4" = 1'-0"

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB.
   TOP OF SLAB ELEVATION IS EL.=+59'-10" FROM GROUND LEVEL EL.=0'-0"
   UNLESS OTHERWISE NOTED THUS [±] ON PLAN FROM TOP OF SLAB SHOWN ABOVE.
4. FOR STAIR AND OPENINGS INFO. SEE ARCHITECTURAL DRAWINGS.

No.	Revision	Date
0	For Coordination	9/27/11

Architect and/or engineer not retained for construction supervision. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with the work.
Do not scale drawing, use dimensions. Contractor shall obtain all necessary permits from the proper authority having jurisdiction before starting work and he shall obtain either a certificate of completion or a certificate of occupancy upon completion of work.

The architect and/or engineer shall not be responsible for the contractor's means and methods, deviation, techniques, sequences or procedures or for safety precautions and programs in connection with the work for the acts or omission of the contractor subcontractors or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with contract documents

Project:
415 Manhattan Avenue
Brooklyn N.Y. 11229

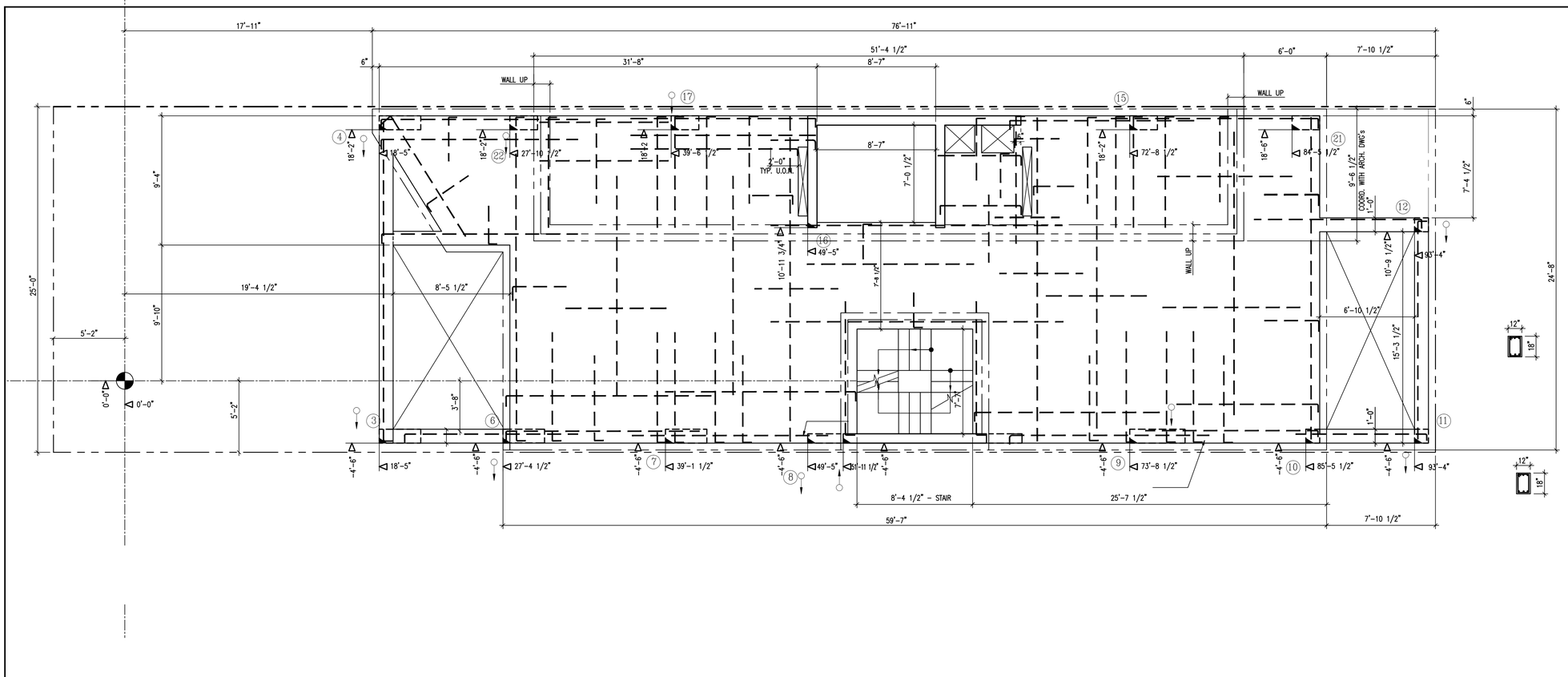
LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

Drawing Title
ROOF REINFORCEMENT, COLUMNS AND OPENINGS LAYOUT PLANS

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-304.00
	13 OF 19

STATE OF NEW YORK · LEONID KRUPNIK · 065939 · LICENSED PROFESSIONAL ENGINEER

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.



ROOF TOP REINFORCEMENT LAYOUT PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB.
   TOP OF SLAB ELEVATION IS EL.=+59'-10" FROM GROUND LEVEL EL.=0'-0"
   UNLESS OTHERWISE NOTED THUS [±] ON PLAN FROM TOP OF SLAB SHOWN ABOVE.
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.
5. TYPICAL BOTTOM REINFORCEMENT- #5 AT 12"o.c. EACH WAY.
6. DENOTES TOP REINFORCEMENT.

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

STATE OF NEW YORK · LEONID KRUPNIK · 065808 · LICENSED PROFESSIONAL ENGINEER

No.	Revision	Date
0	For Coordination	9/27/11

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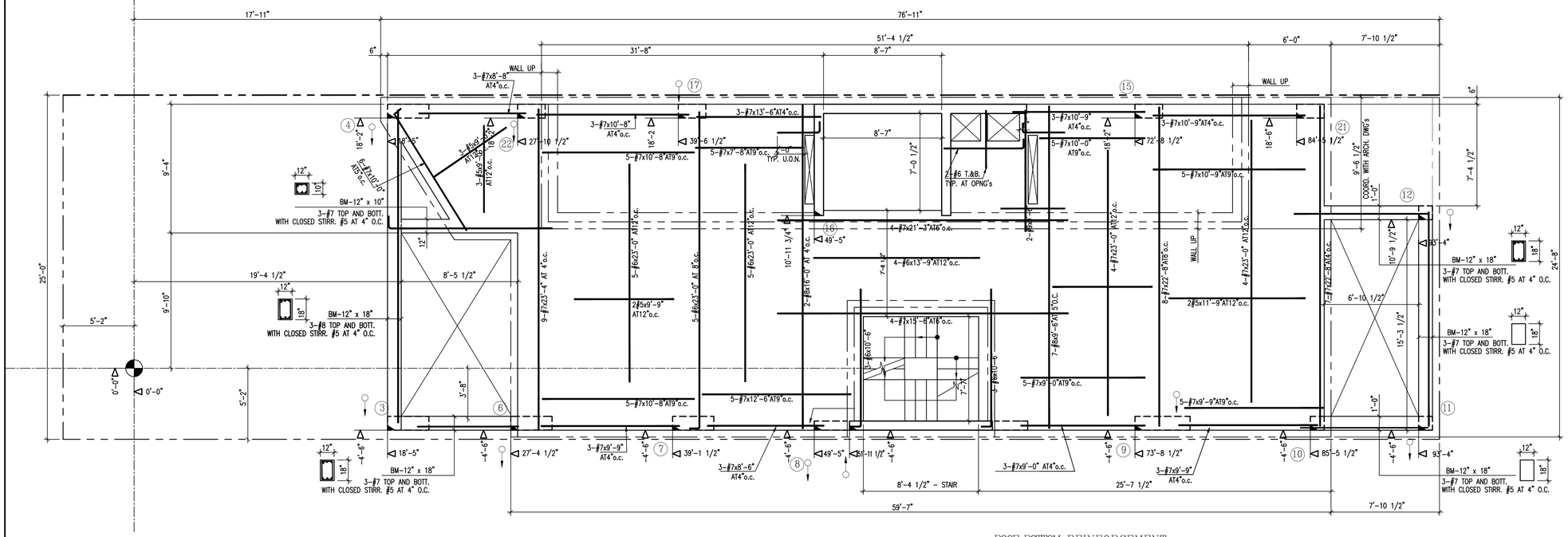
Architect and/or engineer not retained for construction observation. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with work.
Do not scale drawing, use dimensions.
Contractor shall obtain all necessary permits from the appropriate building jurisdiction before starting work and he shall obtain either a certificate of completion or a certificate of occupancy upon completion of work.

Project:
415 Manhattan Avenue
Brooklyn N.Y. 11229

LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

Drawing Title
ROOF TOP REINFORCEMENT AND LAYOUT PLAN

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-304a.00



ROOF BOTTOM REINFORCEMENT LAYOUT PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG. S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
3. 10" TYPICAL FLOOR SLAB.
   TOP OF SLAB ELEVATION IS EL.=+59'-10" FROM GROUND LEVEL EL.=0'-0"
   UNLESS OTHERWISE NOTED THUS [±] ON PLAN FROM TOP OF SLAB SHOWN ABOVE.
4. FOR STAIR INFO. SEE ARCHITECTURAL DRAWINGS.
5. TYPICAL BOTTOM REINFORCEMENT- #5 AT 12"o.c. EACH WAY.
6. ⟶ DENOTES ADDITIONAL BOTTOM REINFORCEMENT.

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

No.	Revision	Date
0	For Coordination	9/27/11

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Project:
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139 Fulton Street, Suite 214
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(212) 393-9679

Drawing Title
ROOF BOTTOM REINFORCEMENT AND LAYOUT PLAN

STATE OF NEW YORK · LEONID KRUPNIK · 065639 · LICENSED PROFESSIONAL ENGINEER

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-304b.00

15 OF 19

COLUMNS LOCATION. / FINISH FLOOR ELEVATION.	1 2 (k)	3 (k)	4 (k)	5 5A (k)	6 (k)	7 (k)	8 (k)	9 (k)	10 (k)
ELEVATOR MACHINE ROOM ROOF SLAB									
EL.=+68'-10" ROOF SLAB		35	40		60	65	53 PC-3 #4 @18"O.C. HORIZ. #6 @ 16"O.C. VERT. AND 2x3 #5 AT EACH END 8" WALL	70	35
EL.=+59'-10" 6th FLOOR SLAB		35 PC-4 36"x12" 12 - #6 35	65 PC-4A 36"x12" 14 - #8 40		90 PC-4B 36"x12" 16 - #8 60	90 PC-4B 36"x12" 16 - #8 65	PC-3 #4 @18"O.C. HORIZ. #6 @16"O.C.VERT. AND 2x3 #5 AT EACH END 8" WALL	115 PC-6B 48"x12" 16 - #8 70	55 PC-1C 12"x12" 12 - #6 35
EL.=+50'-10" 5th FLOOR SLAB		35 PC-4 36"x12" 12 - #6 70	55 PC-4 36"x12" 12 - #6 105		80 PC-4A 36"x12" 14 - #6 150	80 PC-4A 36"x12" 14 - #6 155	PC-3 #4 @18"O.C. HORIZ. #6 @16"O.C. VERT. AND 2x3 #5 AT EACH END 8" WALL	95 PC-6A 48"x12" 16 - #6 185	50 PC-1B 12"x12" 8 - #7 80
EL.=+41'-10" 4th FLOOR SLAB		35 PC-4 36"x12" 12 - #6 105	55 PC-4 36"x12" 12 - #6 160		80 PC-4A 36"x12" 14 - #6 230	75 PC-4A 36"x12" 14 - #6 235	PC-3 #4 @18"O.C. HORIZ. #6 @16"O.C. VERT. AND 2x3 #5 AT EACH END 8" WALL	90 PC-6A 48"x12" 16 - #6 280	55 PC-1B 12"x12" 8 - #7 130
EL.=+32'-10" 3rd FLOOR SLAB		35 PC-4 36"x12" 12 - #6 145	55 PC-4 36"x12" 12 - #6 215		85 PC-4A 36"x12" 14 - #6 310	90 PC-4A 36"x12" 14 - #6 310	PC-3 #4 @18"O.C. HORIZ. #6 @16"O.C. VERT. AND 2x3 #5 AT EACH END 8" WALL	95 PC-6A 48"x12" 16 - #6 370	50 PC-1B 12"x12" 8 - #7 185
EL.=+23'-10" 2nd FLOOR SLAB		35 PC-4 36"x12" 12 - #6 180	50 PC-4 36"x12" 12 - #6 270		100 PC-4A 36"x12" 14 - #6 395	95 PC-4A 36"x12" 14 - #6 400	PC-3 #4 @18"O.C. #6 @16"O.C. VERT. 2x4 #5 AT EACH END 8" WALL	110 PC-6A 48"x12" 16 - #6 465	60 PC-1B 12"x12" 8 - #7 235 8
EL.=+14'-10" 1st FLOOR SLAB EL.=+5'-10"	50	85 PC-4 36"x12" 12 - #6 215	85 PC-4 36"x12" 12 - #6 320	70	80 PC-4A 36"x12" 14 - #6 495	85 PC-4A 36"x12" 14 - #6 495	PC-3 #4 @18"O.C. #6 @16"O.C. VERT. 2x4 #7 AT EACH END 8" WALL	65 PC-6A 48"x12" 16 - #6 575	10 PC-1B 12"x12" 8 - #7 295
GROUND LEVEL EL.=0'-0" CELLAR EL.=-5'-11"	PC-6 48"x12" 18 - #6 50	85 PC-4 36"x12" 12 - #6 300	85 PC-4 36"x12" 12 - #6 405	PC-10 24"x12" 12 - #6 70	80 PC-4A 36"x12" 14 - #6 575	85 PC-4A 36"x12" 14 - #6 580	PC-3 #4 @18"O.C. #6 @16"O.C. VERT. 2x4 #7 AT EACH END 8" WALL	PC-6A 48"x12" 16 - #6 640	PC-1B 12"x12" 8 - #7 305
	1 2	3	4	5 5A	6	7	8	9	10
COLUMN REACTION	50 kips	300 kips	405	70 kips	575 kips	580 kips		640 kips	305 kips

NOTES:

1. ALL LOADS ARE IN KIPS (1K=1000lbs.).
2. FOR LOCATION AND DIMENSIONS OF COLUMNS SEE PLANS.
3. ALL ELEVATIONS FROM TOP OF FINISH FLOOR ELEVATION.
4. INCREASE COLUMN LENGTH TO COMPENSATE FOR FUTURE COLUMN SHORTENING AS FOLLOWS:

   3/4" FROM CELLAR TO FOURTH FLOOR TIERS
   5/8" FROM FIFTH TO EIGHTH FLOOR TIERS
   1/2" FROM NINTH TO PENTHOUSE FLOOR TIERS.

No.	Revision	Date
0	For Coordination	9/27/11

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Project:
415 Manhattan Avenue
Brooklyn N.Y. 11229

LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

Drawing Title
COLUMN SCHEDULE
(DWG. 1 OF 2)

STATE OF NEW YORK · LEONID KRUPNIK · 045639 · LICENSED PROFESSIONAL ENGINEER

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-400.00

COLUMNS LOCATION. / COL. LINE / FINISH FLOOR ELEVATION.	11 (k)	12 (k)	14 (k)	15 (k)	16 (k)	17 (k)	21 (k)	22 (k)	COL. LINE / COLUMNS LOCATION. / FINISH FLOOR ELEVATION.
ELEVATOR MACHINE ROOM ROOF SLAB									ELEVATOR MACHINE ROOM ROOF SLAB
EL.=+68'-10" ROOF SLAB	25	30		55	PC-2 #4 @16"O.C. HORIZ. #6 @ 16"O.C. VERT. AND 2x3 #5 AT EACH END — 8" WALL	50	45	60	EL.=+68'-10" ROOF SLAB
EL.=+59'-10" 6th FLOOR SLAB	35 PC-1B 12"x12" 8 - #7 25	55 PC-1C 12"x12" 12 - #6 30	30	85 PC-10A 24"x12" 16 - #7 55	PC-2 #4 @16"O.C. HORIZ. #6 @ 16"O.C. VERT. AND 2x3 #5 AT EACH END — 8" WALL	85 PC-10A 24"x12" 16 - #7 50	80 PC-10D 24"x12" 14 - #7 45	90 PC-10A 24"x12" 16 - #7 60	EL.=+59'-10" 6th FLOOR SLAB
EL.=+50'-10" 5th FLOOR SLAB	25 PC-1B 12"x12" 8 - #6 60	55 PC-1C 12"x12" 12 - #6 85	25 PC-1B 12"x12" 8 - #6 30	75 PC-10 24"x12" 12 - #7 140	PC-2 #4 @16"O.C. HORIZ. #6 @ 16"O.C. VERT. AND 2x3 #5 AT EACH END — 8" WALL	80 PC-10B 24"x12" 10 - #6 135	80 PC-10B 24"x12" 10 - #7 125	80 PC-10B 24"x12" 10 - #6 150	EL.=+50'-10" 5th FLOOR SLAB
EL.=+41'-10" 4th FLOOR SLAB	25 PC-1B 12"x12" 8 - #6 85	50 PC-1C 12"x12" 12 - #6 140	30 PC-1B 12"x12" 8 - #6 55	80 PC-10 24"x12" 12 - #7 215	PC-2 #4 @16"O.C. HORIZ. #6 @ 16"O.C. VERT. AND 2x3 #5 AT EACH END — 8" WALL	75 PC-10B 24"x12" 10 - #6 215	75 PC-10B 24"x12" 10 - #7 205	85 PC-10B 24"x12" 10 - #6 230	EL.=+41'-10" 4th FLOOR SLAB
EL.=+32'-10" 3rd FLOOR SLAB	25 PC-1B 12"x12" 8 - #6 110	55 PC-1C 12"x12" 12 - #6 190	25 PC-1B 12"x12" 8 - #6 85	75 PC-10C 24"x12" 8 - #7 295	PC-2 #4 @16"O.C. HORIZ. #6 @ 16"O.C. VERT. AND 2x3 #5 AT EACH END — 8" WALL	80 PC-10B 24"x12" 10 - #6 290	70 PC-10C 24"x12" 8 - #6 280	80 PC-10B 24"x12" 10 - #6 315	EL.=+32'-10" 3rd FLOOR SLAB
EL.=+23'-10" 2nd FLOOR SLAB	25 PC-1B 12"x12" 8 - #6 135	55 PC-1C 12"x12" 12 - #7 245	25 PC-1B 12"x12" 8 - #6 110	85 PC-10C 24"x12" 8 - #7 370	PC-2 #4 @16"O.C. HORIZ. #6 @ 16"O.C. VERT. AND 2x3 #5 AT EACH END — 8" WALL	85 PC-10B 24"x12" 10 - #6 370	75 PC-10C 24"x12" 8 - #6 350	90 PC-10B 24"x12" 10 - #6 395	EL.=+23'-10" 2nd FLOOR SLAB
EL.=+14'-10" 1st FLOOR SLAB EL.=+5'-10"	55 PC-1B 12"x12" 8 - #6 160	55 PC-1C 12"x12" 12 - #6 300	25 PC-1B 12"x12" 8 - #6 135	60 PC-10C 24"x12" 8 - #7 455	PC-2 #4 @16"O.C. HORIZ. #7 @ 13"O.C. VERT. AND 2x3 #5 AT EACH END — 8" WALL	80 PC-10B 24"x12" 10 - #6 455	50 PC-10C 24"x12" 8 - #6 425	75 PC-10B 24"x12" 10 - #6 485	EL.=+14'-10" 1st FLOOR SLAB
GROUND LEVEL EL.=0'-0" CELLAR	PC-10C 24"x12" 8 - #6 215	PC-10C 24"x12" 8 - #6 355	PC-1B 12"x12" 8 - #6 160	PC-10C 24"x12" 8 - #7 515	PC-2 #4 @16"O.C. HORIZ. #7 @ 13"O.C. VERT. AND 2x3 #5 AT EACH END — 8" WALL	PC-10B 24"x12" 10 - #6 535	PC-10C 24"x12" 8 - #6 475	PC-10B 24"x12" 10 - #6 560	EL.=+5'-10" GROUND LEVEL EL.=0'-0" CELLAR
EL.=-5'-11"									EL.=-5'-11"
	11	12	14	15	16	17	21	22	
COLUMN REACTION	215 kips	355 kips	160 kips	515 kips		535 kips	475 kips	560 kips	COLUMN REACTION

NOTES:
1. ALL LOADS ARE IN KIPS (1K=1000lbs.).
2. FOR LOCATION AND DIMENSIONS OF COLUMNS SEE PLANS.
3. ALL ELEVATIONS FROM TOP OF FINISH FLOOR ELEVATION.
4. INCREASE COLUMN LENGTH TO COMPENSATE FOR FUTURE COLUMN SHORTENING AS FOLLOWS:

   3/4" FROM CELLAR TO FOURTH FLOOR TIERS
   5/8" FROM FIFTH TO EIGHTH FLOOR TIERS
   1/2" FROM NINTH TO PENTHOUSE FLOOR TIERS.

STATE OF NEW YORK · LEONID KRUPNIK · 065808 · LICENSED PROFESSIONAL ENGINEER

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

No.	Revision	Date
0	For Coordination	9/27/11

Architect and/or engineer not retained for supervision. Contractor to verify all dimensions and conditions at the site and discrepancies to the architect before proceeding with the work. Do not scale drawing, use dimensions. Contractor shall obtain all necessary permits and approvals from the governing jurisdiction before starting work and he shall obtain either a certificate of completion or a certificate of occupancy upon completion of work.

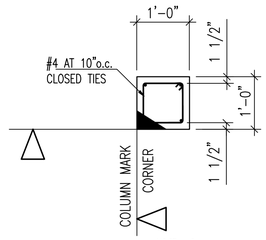
The architect and/or engineer shall not be responsible for construction means, methods, deviation, techniques, sequences and procedures or for safety precautions and programs in connection with the work for the acts or omission of the contractor subcontractors or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with contract documents

Project:
415 Manhattan Avenue
Brooklyn N.Y. 11229

LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

Drawing Title
COLUMN SCHEDULE
(DWG. 2 OF 2)

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-401.00



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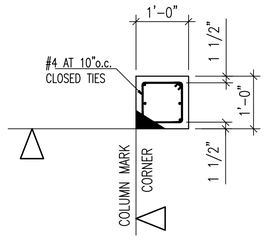

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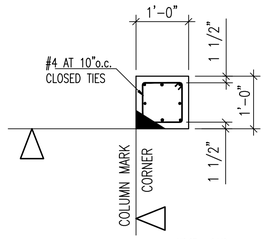

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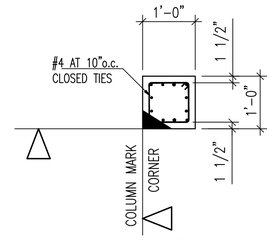

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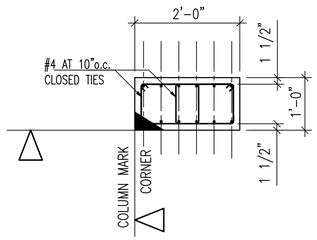

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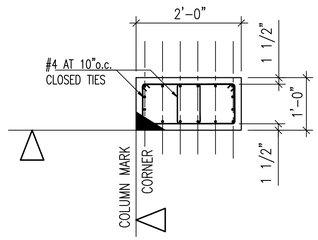

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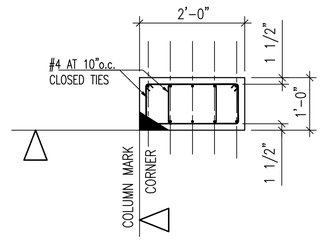

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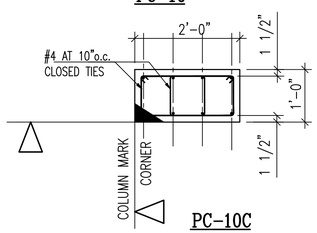

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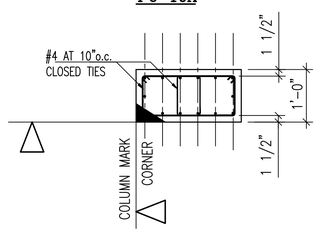

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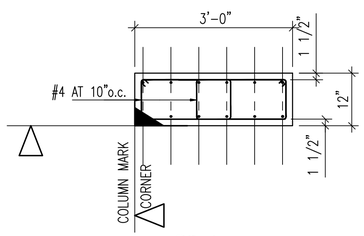

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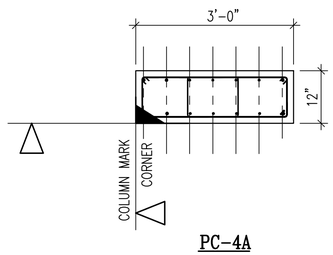

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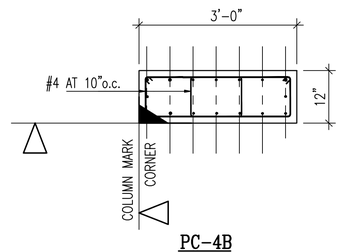

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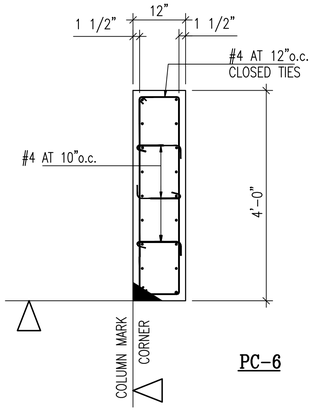

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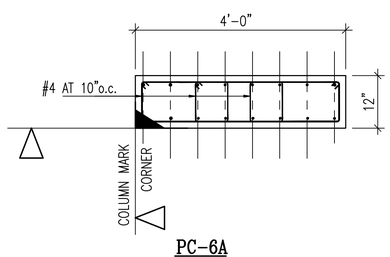

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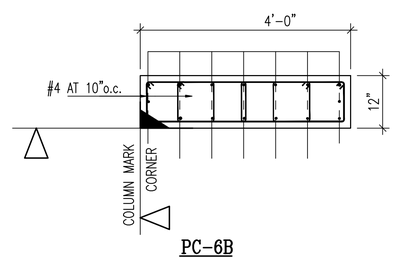

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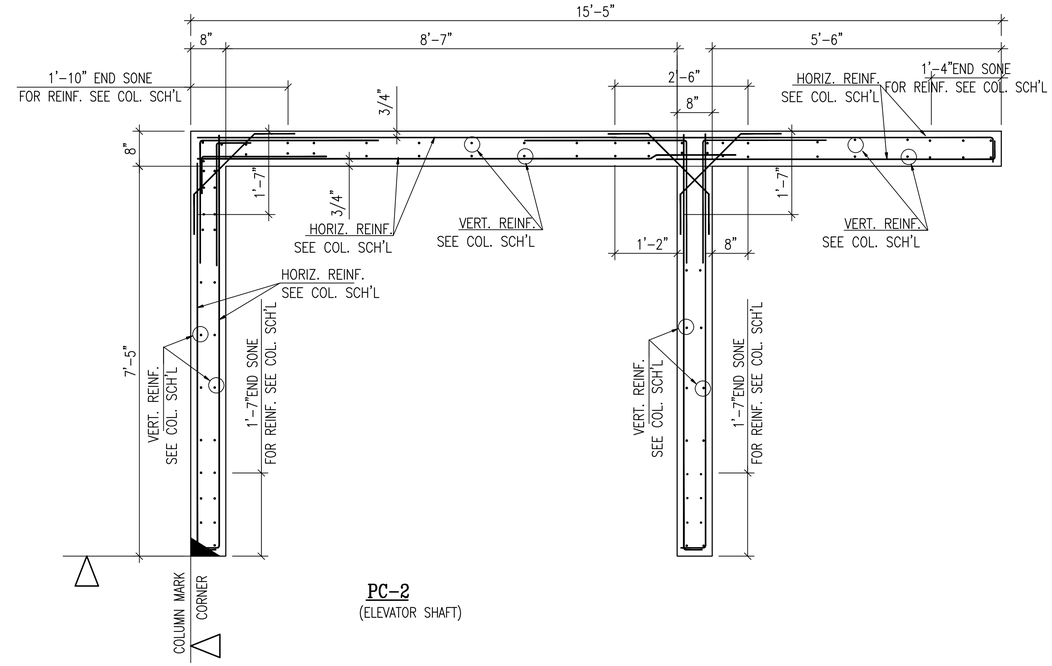

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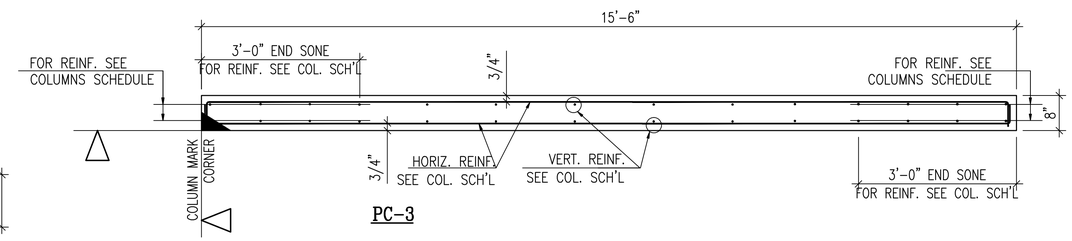
(ELEVATOR SHAFT)



PC-3

No.	Revision	Date
0	For Coordination	9/27/11

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Do not scale drawing, use dimensions.
Contractor shall obtain all necessary permits from the building department having jurisdiction before starting work and he shall obtain either a certificate of compliance or a certificate of occupancy upon completion of work.

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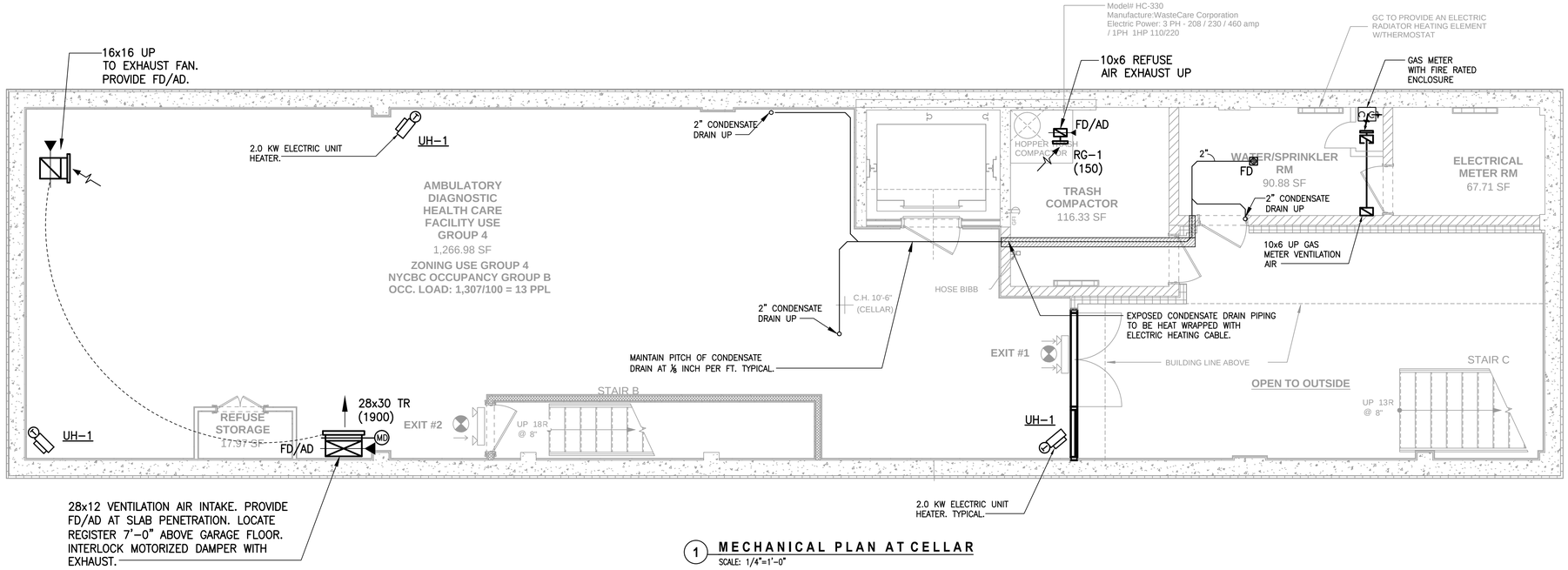
Project:
415 Manhattan Avenue
Brooklyn N.Y. 11229

LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

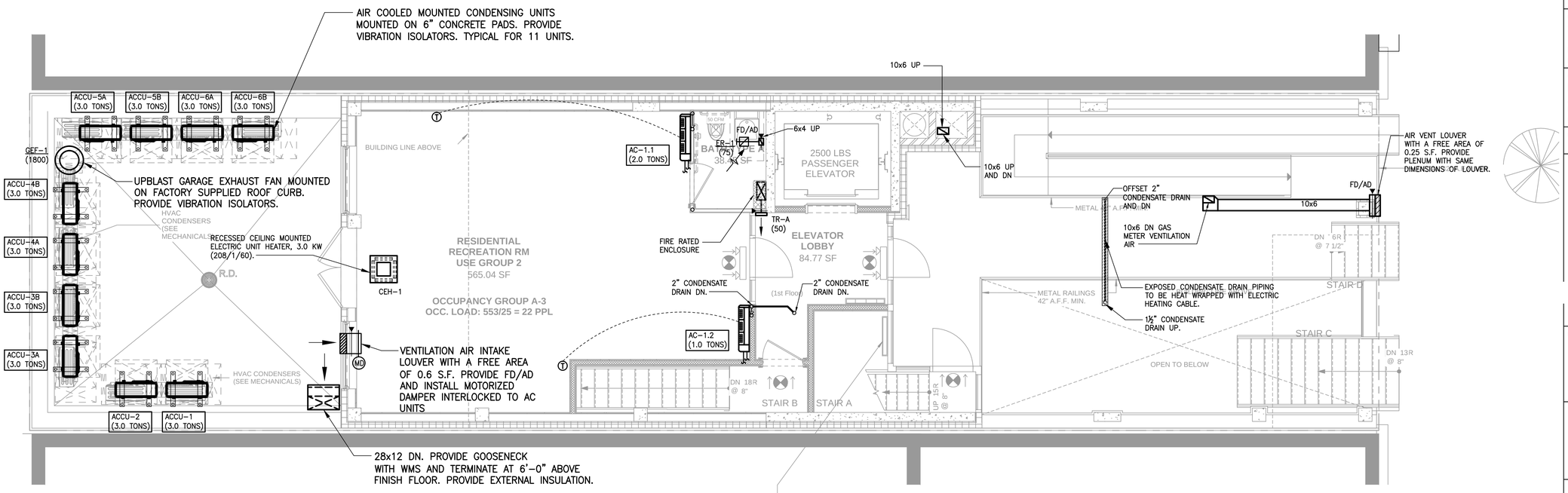
Drawing Title
COLUMNS DETAILS

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	S-402.00



1 **MECHANICAL PLAN AT CELLAR**
SCALE: 1/4"=1'-0"



2 **MECHANICAL PLAN AT FIRST FLOOR**
SCALE: 1/4"=1'-0"

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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Revision No.	Date	Remarks
01	11.15.13	Issued

Project Manager/Designer:
Jonathan Imani
110 York Steet
Brooklyn, NY 11201
PH: (718)222-0322 Ext. 206 Fax: (718)222-4177

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PH: (212) 393-9679

Mechanical Engineer:
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Civil Engineer:
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Brooklyn , NY 11214
PH: (718)266-1706

Control Inspectors (TR1), (TR2), (TR8):
Dave keyur
4 Mark Road Unit A
Kenilworth , NJ 07033
PH: (908)688-6682 Fax: (908)688-6687

DOB APPLICATION NO.
****

STATE OF NEW YORK
NICHOLAS A. TUCCI
071681
LICENSED PROFESSIONAL ENGINEER

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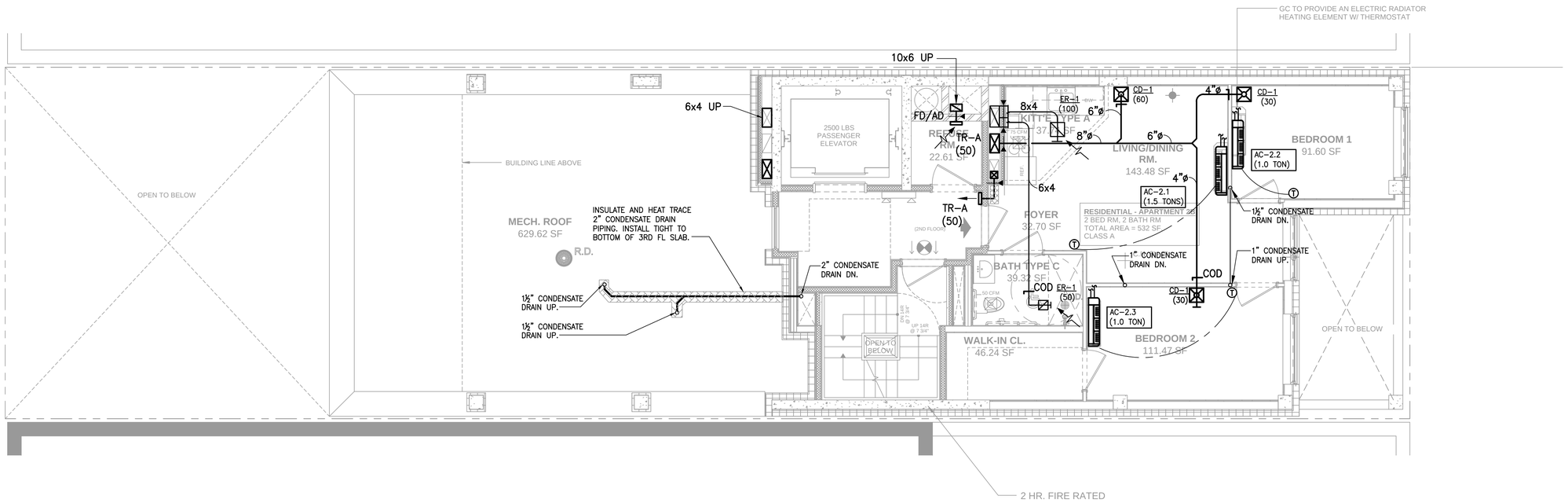
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MECHANICAL
CELLAR AND FIRST
FLOOR PLANS

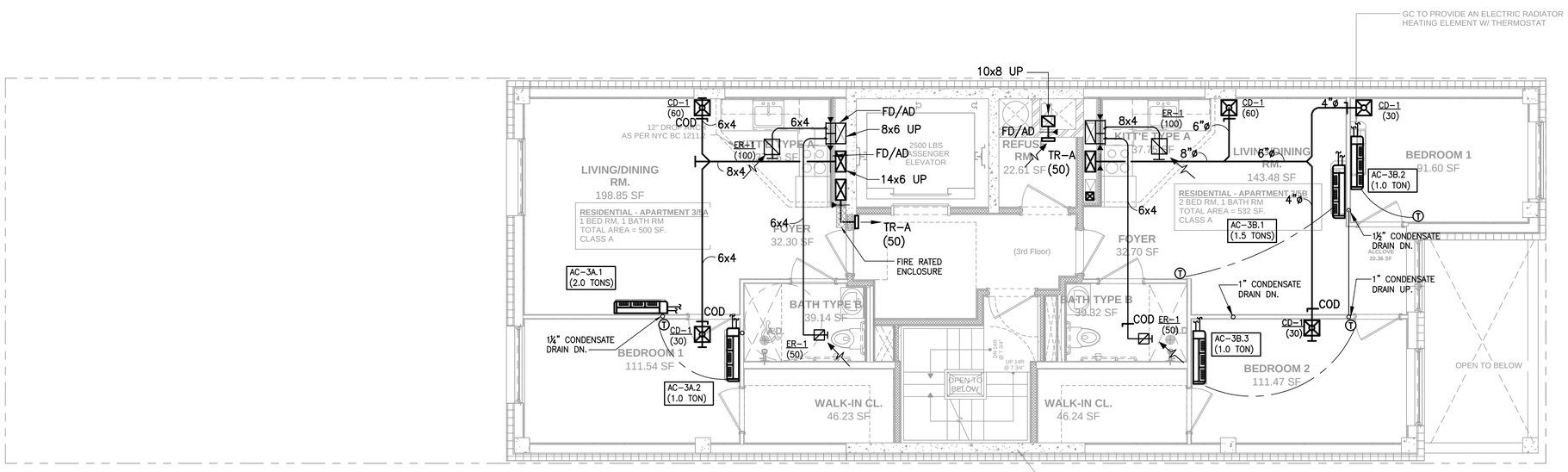
DWG #
M-101.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 01 OF 11



1 MECHANICAL PLAN AT SECOND FLOOR

SCALE: 1/4"=1'-0"



2 MECHANICAL PLAN AT 3RD AND 5TH TYPICAL

SCALE: 1/4"=1'-0"

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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Revision No.	Date	Remarks
01	11.15.13	Issued

Project Manager/Designer:
Jonathan Imani
110 York Steet
Brooklyn, NY 11201
PH: (718)222-0322 Ext. 206 Fax: (718)222-4177

Structural Engineer:
Leonid Krupnik P.E.
139 Fulton street, Suite 214
New York NY 10038
PH: (212) 393-9679

Mechanical Engineer:
TSF Engineering P.C.
200 Park Avenue South Suite 916
New York, NY 10003
PH: (212) 253-7303 Fax: (212) 253-6512

Civil Engineer:
Joe Denora
1945 McDonalds Ave.
Brooklyn, NY 11223
PH: (718)382-0747 Fax: (718)382-0133

TR3/Design Mix Engineer:
Dave Banerjee
15-46 129th. Street
College Point, NY 113565
PH: (718)939-7774 Fax: (718)939-6444

Elevator Consultant:
Scott Hayes
1953 86th Street, 2nd Floor
Brooklyn , NY 11214
PH: (718)266-1706

Control Inspectors (TR1), (TR2), (TR8):
Dave keyur
4 Mark Road Unit A
Kenilworth , NJ 07033
PH: (908)688-6682 Fax: (908)688-6687

DOB APPLICATION NO.
****

STATE OF NEW YORK · NICHOLAS P. TUCCI · 071881 · LICENSED PROFESSIONAL ENGINEER

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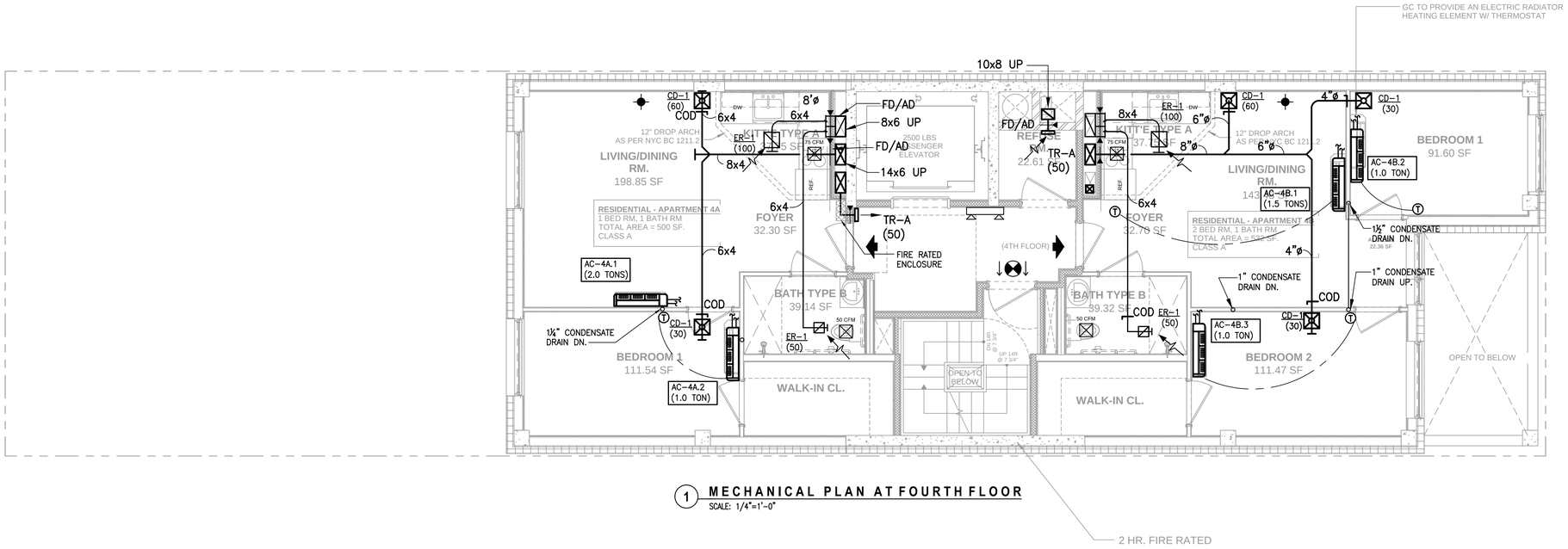
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

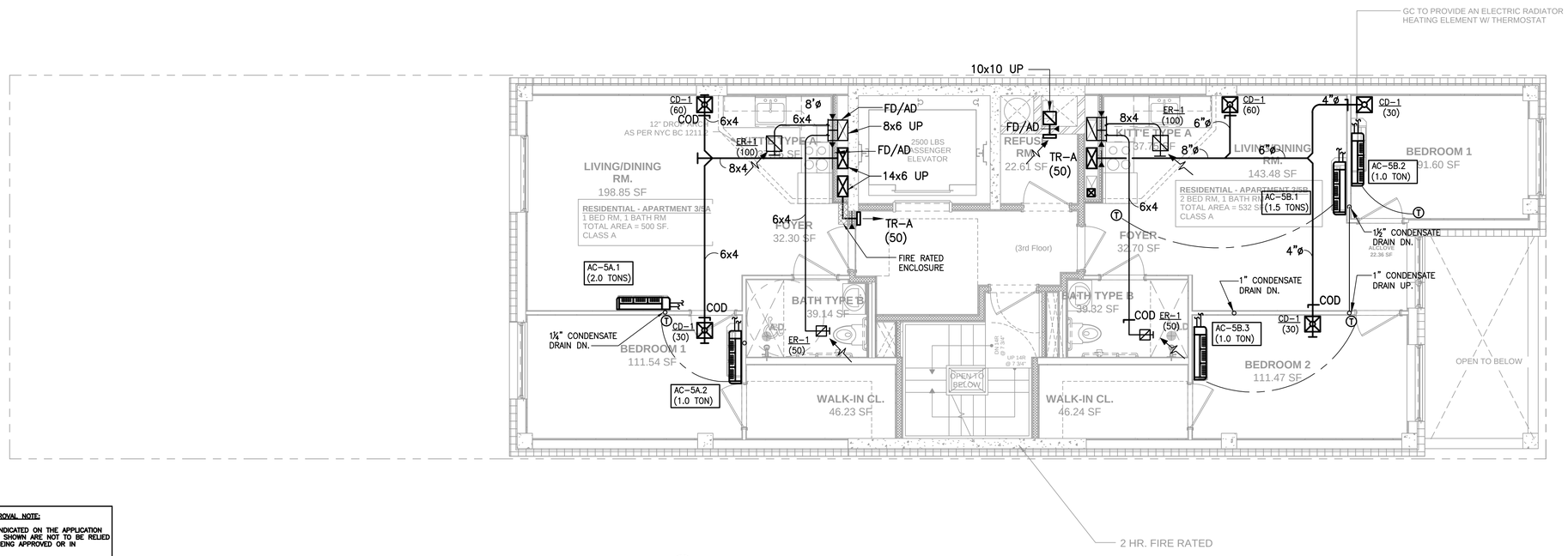
Title:
MECHANICAL
SECOND AND THIRD FLOOR PLANS

DWG #
M-102.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job # 13221
	Checked: TSF
	SHT. NO. 02 OF 11



1 **MECHANICAL PLAN AT FOURTH FLOOR**
SCALE: 1/4"=1'-0"



2 **MECHANICAL PLAN AT FIFTH FLOOR**
SCALE: 3/16"=1'-0"

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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Revision No.	Date	Remarks
01	11.15.13	Issued

Project Manager/Designer:
Jonathan Imani
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Brooklyn, NY 11201
PH: (718)222-0322 Ext. 206 Fax: (718)222-4177

Structural Engineer:
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New York NY 10038
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Mechanical Engineer:
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New York, NY 10003
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Civil Engineer:
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Brooklyn, NY 11223
PH: (718)382-0747 Fax: (718)382-0133

TR3/Design Mix Engineer:
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College Point, NY 113565
PH: (718)939-7774 Fax: (718)939-6444

Elevator Consultant:
Scott Hayes
1953 86th Street, 2nd Floor
Brooklyn , NY 11214
PH: (718)266-1706

Control Inspectors (TR1), (TR2), (TR8):
Dave keyur
4 Mark Road Unit A
Kenilworth , NJ 07033
PH: (908)688-6682 Fax: (908)688-6687

DOB APPLICATION NO.
****

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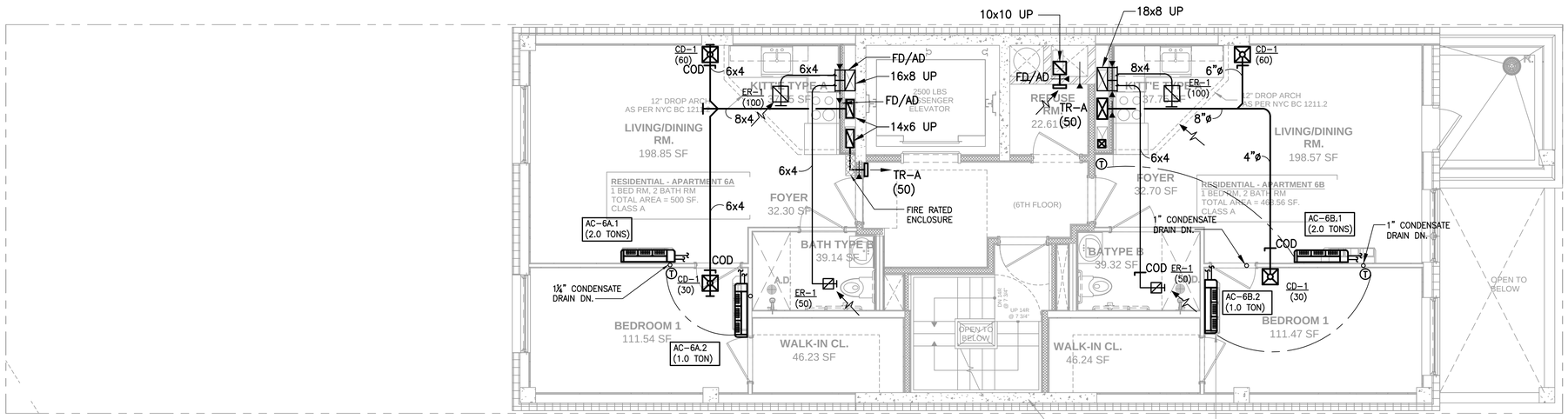
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MECHANICAL
FOURTH AND FIFTH FLOOR PLANS

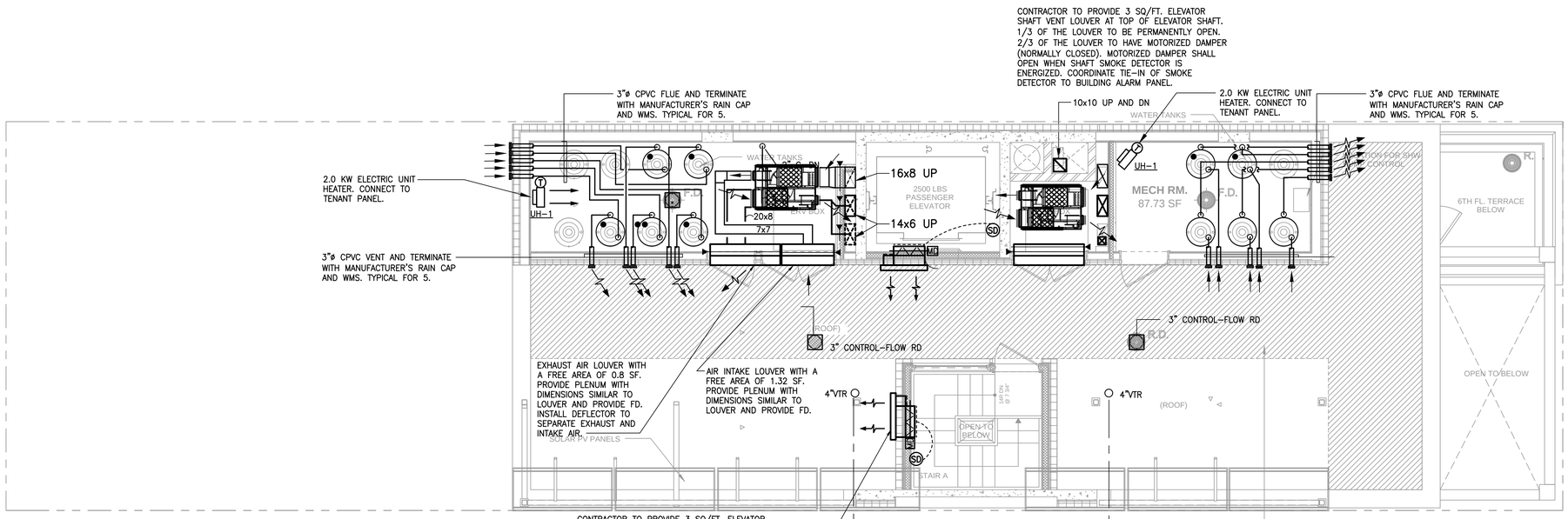
DWG #
M-103.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job # 13221
	Checked: TSF
	SHT. NO. 03 OF 11



1 MECHANICAL PLAN AT SIXTH FLOOR

SCALE: 1/4"=1'-0"



1 MECHANICAL ROOF PLAN

SCALE: 1/4"=1'-0"

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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Revision No.	Date	Remarks
01	11.15.13	Issued

Project Manager/Designer:
Jonathan Imani
110 York Steet
Brooklyn, NY 11201
PH: (718)222-0322 Ext. 206 Fax: (718)222-4177

Structural Engineer:
Leonid Krupnik P.E.
139 Fulton street, Suite 214
New York NY 10038
PH: (212) 393-9679

Mechanical Engineer:
TSF Engineering P.C.
200 Park Avenue South Suite 916
New York, NY 10003
PH: (212) 253-7303 Fax: (212) 253-6512

Civil Engineer:
Joe Denora
1945 McDonals Ave.
Brooklyn, NY 11223
PH: (718)382-0747 Fax: (718)382-0133

TR3/Design Mix Engineer:
Dave Banerjee
15-46 129th. Street
College Point, NY 113565
PH: (718)939-7774 Fax: (718)939-6444

Elevator Consultant:
Scott Hayes
1953 86th Street, 2nd Floor
Brooklyn , NY 11214
PH: (718)266-1706

Control Inspectors (TR1), (TR2), (TR8):
Dave keyur
4 Mark Road Unit A
Kenilworth , NJ 07033
PH: (908)688-6682 Fax: (908)688-6687

DOB APPLICATION NO.
****

STATE OF NEW YORK · NICHOLAS P. TUCCI · 071881 · LICENSED PROFESSIONAL ENGINEER

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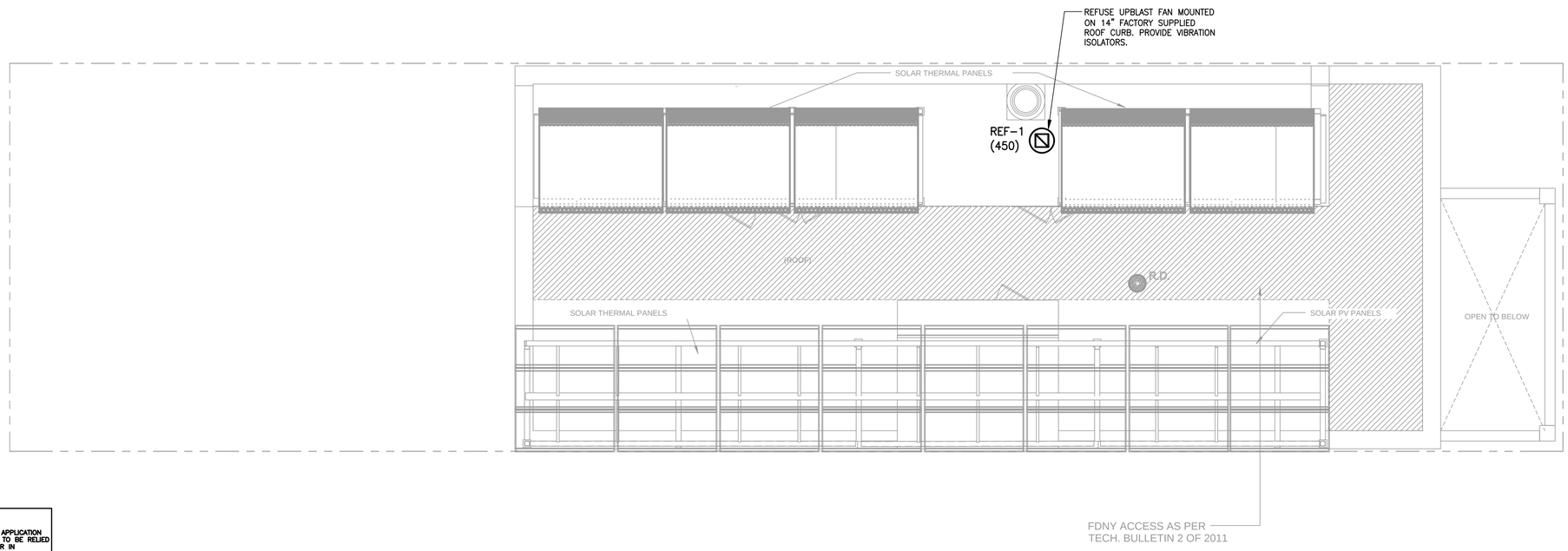
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MECHANICAL
SIXTH FLOOR AND ROOF PLANS

DWG #
M-104.00

Signature:	Date: 11.13.13
Seal:	Scale: 1/4" = 1'-0"
	Drawn: TSF
	Job # 13221
	Checked: TSF
	SHT. NO. 04 OF 11



1 **MECHANICAL BULKHEAD PLAN**
SCALE: 1/4"=1'-0"

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THIS CONTRACTOR SHALL FILE AND OBTAIN ALL EQUIPMENT USE PERMITS FOR ANY AND ALL EQUIPMENT SPECIFIED ON THESE PLANS REQUIRING SUCH.

Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MECHANICAL
BULKHEAD PLAN

DWG #
M-105.00

Signature:	Date: 11.13.13
Seal:	Scale: 1/4" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 05 OF 11

BUILDING DEPARTMENT NOTES:

2008 – NYC BUILDING CODE
ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK, EFFECTIVE JULY 1, 2008 AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE. INSPECTIONS AND SIGN–OFF OF COMPLETED WORK SHALL BE MADE AS PER ARTICLE 28–116 OF THE GENERAL ADMINISTRATIVE PROVISIONS.

1. THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED BY THE NYC BUILDING CODE FOR HVAC SYSTEMS:

   A. MECHANICAL SYSTEMS–BC 1704.15
   B. ENERGY CODE COMPLIANCE– BC 109.3.5
   C. FINAL–28–116.2.4.2 AND BC 109.5 AND DIRECTIVE 12 OF 1975

2. THE FOLLOWING PERIODIC SPECIAL INSPECTIONS ARE REQUIRED BY THE NYC BUILDING CODE FOR HVAC SYSTEMS:

   A. FIRE DAMPERS – BC 109.3.4
   B. ENERGY CODE COMPLIANCE– BC 109.3.5 ii
      1.MECHANICAL AND SERVICE WATER HEATING INSPECTIONS
         a. DAMPERS INTEGRAL TO BUILDING ENVELOPES–IIB2
         b. HVAC AND SERVICE WATER HEATING EQUIPMENT–IIB3
         c. HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS–IIB4
         d. DUCT PLENUM AND PIPING INSULATION AND SEALING–IIB5
         e. MAINTENANCE INFORMATION–IID1

   C. THROUGH–PENETRATION FIRE STOP SYSTEMS– BC 1704.25

3. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION MC 107 AND THE FOLLOWING SECTIONS OF THE NEW YORK CITY MECHANICAL. CODE:

   A. VENTILATION SYSTEM BALANCING 403.3.4

4. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER TO PROVIDE THE REQUIRED SPECIAL INSPECTIONS AND TESTS

   A. UPON COMPLETION OF THE VENTILATION SYSTEM:

      1) A TEST SHALL BE CONDUCTED IN THE PRESENCE OF AND UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER QUALIFIED TO CONDUCT SUCH TESTS. THE TESTS SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL SMOKE DETECTION, FIRE PROTECTION AND OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED.
      2) THE LICENSED PROFESSIONAL ENGINEER WHO CONDUCTS THE TESTS SHALL FILE A CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH THE APPLICABLE LAWS. THEY SHALL ALSO FILE WITH THIS CERTIFICATION A REPORT OF THE TEST. THE TEST AND REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE OWNER.

5. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:

   A. STANDARDS OF HEATING – MC 309.1
   B. NOISE CONTROL –MC 926
   C. DUCT CONSTRUCTION, SUPPORT – MC 603
   D. AIR INTAKES, EXHAUSTS AND RELIES – MC 401.5
   E. AIR FILTERS–MC 605
   F. FIRE DAMPERS AND SMOKE DAMPERS AND SMOKE DETECTORS –MC 607
   G. PIPING AND INSULATION –MC 1201

6. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG F

7. VENTILATION FOR ALL AREAS SHALL COMPLY WITH MC 401.

8. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATING SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY CODE MC 403.3

9. ALL FIRE DAMPERS SHALL BE ACCEPTED FOR USE BY THE NEW YORK CITY DEPARTMENT OF BUILDINGS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH UL 555, STANDARD FOR FIRE DAMPERS AND CEILING DAMPERS.

10. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.

11. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

12. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE (NYCECC) AS REQUIRED BY CHAPTER 1, SECTION 101.4."

13. TESTS OF SOUND POWER LEVEL OF MECHANICAL EQUIPMENT SHALL BE CONDUCTED AND RESULTS SUBMITTED WHERE WINDOWS OF A DWELLING UNIT ARE WITHIN 100 FEET OF EQUIPMENT. THE SOUND PRESSURE LEVEL SHALL NOT EXCEED THE LEVELS GIVEN IN MC 926.

EXHAUST FAN SCHEDULE

UNIT NO.	ROOMS SERVED	CFM	S.P. (IN. WG.)	ELEC. DATA HP/W	ELEC. DATA V/PH/Hz	DIMENSIONS LxWxH (IN)	OPERATING WEIGHT	MANUFACTURER	MODEL	REMARKS
REF–1	REFUSE ROOM	450	0.5	1/20	115/1/60	21"øx14"	40 LBS.	GREENHECK	CUE–090	

NOTES:

1. EXHAUST FANS (DIRECT DRIVE) SHALL BE PROVIDED WITH A VARIABLE SPEED SWITCH. ALL DEVICES TO BE WIRED BY ELECTRICAL CONTRACTOR.
2. ALL EXHAUST FANS SHALL BE PROVIDED WITH BACK DRAFT DAMPERS.
3. ROOF FANS SHALL BE PROVIDED WITH TIME CLOCKS FOR NORMAL OPERATION.

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH THE 2014 OF THE NEW YORK CITY BUILDING CODE ARE REQUIRED TO BE PREFORMED.

THIS CONTRACTOR SHALL FILE AND OBTAIN ALL EQUIPMENT USE PERMITS FOR ANY AND ALL EQUIPMENT SPECIFIED ON THESE PLANS REQUIRING SUCH.

ELECTRIC CABINET HEATER SCHEDULE BY: MARKEL

UNIT NO.	LOCATION	MBH	AIR DATA CFM (HI)	AIR DATA TEMP. °F ENT.	AIR DATA TEMP. °F LVG.	ELECTRICAL VOLT/PH	ELECTRICAL KW	MODEL	LENGTH	WT.	DIMENSIONS
CUH–1	SEE PLANS	10.239	250	60	120	208/1	3.0	6300 SERIES	33.0 IN.	99 LBS.	33"Wx25"Hx9.5"D

NOTES:

1. ALL ELECTRIC CABINET UNIT HEATERS BY MARKEL SHALL BE UL LISTED.
2. HEATING ELEMENTS SHALL BE WARRANTED FOR 5 YEARS.
3. THERMAL SAFETY LIMITS SHALL BE BUILT INTO THE SYSTEM.
4. THE MOTORS AND BLOWERS SHALL BE DIRECT DRIVE AND MOUNTED ON RIGID HEAVY GAUGE FRAME.
5. CIRCUIT BREAKERS SHALL BE PROVIDED FOR BRANCH CIRCUIT PROTECTION AS REQUIRED BY NEC AND UL.
6. INTEGRAL FACTORY INSTALLED THERMOSTAT SHALL BE TAMPER RESISTANT, LINEAR CAPILLARY TYPE AND SERVE AS HI TEMP LIMIT.
7. PROVIDE WITH INTERLOCK TO REMOTE THERMOSTAT FOR NORMAL CONTROL.

HVAC DRAWING NOTES:

A. GENERAL

1. CONTRACTOR WILL BE HELD RESPONSIBLE TO HAVE VISITED AND EXAMINED THE PREMISES PRIOR TO SUBMITTING HIS PROPOSAL IN ORDER TO UNDERSTAND THE EXISTING CONDITIONS RELATED TO HIS WORK.
2. MATERIALS, DOCUMENTATION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS, LOCAL CODES AND AS SPECIFIED.
3. DUCTWORK SHOWN IS DIAGRAMMATIC AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISERS OF RUNS. CONTRACTOR SHALL ALLOW IN HIS PRICE THE ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT RELOCATIONS ARE SUBJECT TO APPROVAL.
4. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE WORK. EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALLOWANCE FOR SUCH REMOVALS AND RELOCATIONS.
5. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIALS, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK.
6. FIREPROOFING AND INSULATION DISTURBED BY NEW CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.
7. SUPPORT ALL DUCTWORK FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING.
8. SEAL OPENINGS AROUND DUCTS THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NON–COMBUSTIBLE MATERIAL.
9. EXACT LOCATIONS OF ALL WALL MOUNTED THERMOSTATS, SWITCHES, PANELS, ETC., SHALL BE SUBJECT TO ARCHITECT'S APPROVAL.
10. CONTRACTOR SHALL BALANCE ENTIRE SYSTEM TO CONFORM TO NEW AIR QUANTITIES SHOWN.
11. DUCTWORK SHALL CONFORM TO SMACNA STANDARDS EXCEPT A SNAP LOCK SEAM SHALL NOT BE PERMITTED AS A SUBSTITUTE FOR THE PITTSBURGH LOCK AT CORNERS OF DUCTS. DUCT LEAKAGE NOT TO EXCEED 5%.
12. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLED INSPECTION AS PART OF THIS CONTRACT. MECHANICAL CONTRACTOR SHALL PROVIDE THE NAME OF A LICENSED PROFESSIONAL ENGINEER TO ARCHITECT WHEN AWARDED CONTRACT.

B. EQUIPMENT

1. INVESTIGATE PATH THROUGH WHICH EQUIPMENT WILL BE MOVED. EQUIPMENT SHALL BE BROKEN DOWN IN SECTIONS AS NEEDED FOR MOVING THROUGH BUILDING SPACES.
2. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. INSTALL EQUIPMENT AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE REQUIRED TO ACCOMPLISH THIS.
4. CHANGES IN ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND PLUMBING REQUIREMENTS FOR SUBSTITUTED EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE BIDDER WISHING TO MAKE THE SUBSTITUTION. THIS SHALL INCLUDE THE COST OF ANY REDESIGN BY THE EFFECTED DESIGNERS. ANY ADDITIONAL COST INCURRED BY THE EFFECTED SUBCONTRACTORS SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND NOT THE OWNER.

C. DUCTWORK

1. ALL DUCTWORK TO BE KEPT AS HIGH AS POSSIBLE SO AS TO MAINTAIN CEILING HEIGHTS SHOWN ON ARCHITECTURAL DRAWINGS.
2. FOR EXACT LOCATIONS OF CEILING DIFFUSERS AND REGISTERS, COORDINATE WITH REFLECTED CEILING PLANS PREPARED BY ARCHITECT.
3. IF DUCTWORK CONFLICTS WITH PIPING, STEEL, LIGHT FIXTURES, ETC., DUCTWORK SHALL BE SET UP AND DOWN.
4. ALL DUCT SPLITS AND TAKE–OFFS SHALL BE PROVIDED WITH VOLUME DAMPERS. SPLITTER DAMPERS AND AIR EXTRACTORS ARE NOT ACCEPTABLE.
5. SEALANT SHALL BE APPLIED TO LONGITUDINAL SEAMS IN THE SHOP DURING FABRICATION. FIELD APPLY SEALANT TO TRANSVERSE SEAMS AND CONNECTIONS TO BRANCH WORK AND AIR OUTLETS.
6. RADIUS ELBOWS SHALL BE USED IN ALL DUCT OFFSETS (HORIZONTAL OR VERTICAL). MITERED ELBOWS WITHOUT TURNING VANES ARE NOT ACCEPTABLE.
7. ALL ACTIVE OPEN END DUCTWORK SHALL BE PROVIDED WITH WIRE MESH SCREEN.
8. VOLUME DAMPERS IN BRANCH DUCTS SHALL BE LOCATED AS FAR AS POSSIBLE FROM AIR OUTLET OR INLET IN ORDER TO REDUCE NOISE AND TURBULENCE.
9. CHECK AND SET FIRE DAMPERS OPEN AND REPLACE ANY DEFECTIVE FUSIBLE LINKS.
10. ACCESS IS REQUIRED BELOW ALL DAMPERS.
11. PROVIDE WIRE MESH SCREENS AT ALL OPEN END DUCTS AND TRANSFER SLEEVES.
12. PROVIDE SLOPED PANS AND DRAIN PLUGS AT ALL PLENUMS.
13. ALL NEW DUCTWORK TO BE INSULATED WITH 1–1/2" THICKNESS OF INSULATION.
14. IN ALL FULL HEIGHT PARTITIONS, PROVIDE A RETURN AIR OPENINGS WITH SHEETMETAL SLEEVES EQUAL TO ONE (1) SQUARE FEET PER 250 CFM OF SUPPLY AIR. ALL RETURN AIR OPENINGS SHALL BE A MNIMUM OF ONE (1) SQUARE FEET UNLESS OTHERWISE NOTED.

D. RECORD DRAWINGS AND SUBMISSIONS

1. PROVIDE TO LANDLORD/CLENT, RECORD COPIES OF THE FOLLOWING:
   a) BUILDING DEPARTMENT FILING DOCUMENTS
   b) CONTROLLED INSPECTIONS
   c) AS–BUILT DRAWINGS
   d) AIR BALANCE REPORTS
   e) OPERATING AND MAINTENANCE MANUALS
   f) EQUIPMENT USE PERMITS

MECHANICAL LEGEND

SYMBOL	DEFINITION
	SUPPLY DIFFUSER
	RETURN GRILLE OR REGISTER
	EXISTING WORK
	NEW WORK
	EXISTING TO BE REMOVED
	CONNECT NEW WORK TO EXISTING WORK
	ACOUSTICALLY LINED DUCTWORK
	VOLUME DAMPER
	DOOR LOUVER
	BRANCH DUCT WITH VOLUME DAMPER
	FLEXIBLE CONNECTOR
	UNDERCUT DOOR
TR	TOP REGISTER
CR	CEILING REGISTER
S	SWITCH
T	THERMOSTAT
SD	SMOKE DETECTOR
FSD	COMBINATION FIRE/SMOKE DAMPER
FD	FIRE DAMPER
AD	ACCESS DOOR
TO	TRANSFER OPENING
TR	TOP REGISTER
TD	TRANSFER DUCT
COD	CABLE OPERABLE DAMPER
CUH	CABINET UNIT HEATER
MD	MOTORIZED DAMPER
GF	GAS FURNACE
OAI	OUTSIDE AIR INTAKE
BDD	BACK DRAFT DAMPER

DIFFUSER, GRILLE & REGISTER SCHEDULE

APPLICATION	MFR	MODEL	NECK SIZE	CFM	REMARKS
SUPPLY	TITUS	TDC	6x6	0–125	
SUPPLY	TITUS	TDC	9x9	130–275	
SUPPLY	TITUS	TDC	12x12	280–500	
SUPPLY	TITUS	TDC	15x15	505–700	
SUPPLY	TITUS	TDC	15"ø	621–700	
RETURN/EXH.	TITUS	3FL	6x6	0–100	
RETURN/EXH.	TITUS	3FL	12x12	0–360	
RETURN/EXH.	TITUS	3FL	12x24	361–720	
RETURN/EXH.	TITUS	3FL	24x24	721–1400	
SUPPLY	TITUS	272RL	6x6	0–150	
SUPPLY	TITUS	272RL	10x6	150–250	
SUPPLY	TITUS	272RL	14x6	300–350	
SUPPLY	TITUS	272RL	24x6	400–550	
SUPPLY	TITUS	272RL	18x12	600–800	
SUPPLY	TITUS	272RL	24x12	850–900	
SUPPLY	TITUS	272RL	36x12	950–1350	
SUPPLY	TITUS	272RL	42x12	1400–1600	
SUPPLY	TITUS	272RL	48x12	1650–1850	

NOTES:

1. FURNISH AND INSTALL DIFFUSERS WITH EQUALIZING GRIDS AND OPPOSED BLADE DAMPERS.
2. MECHANICAL CONTRACTOR TO COORDINATE BOARDER TYPES WITH CEILING CONSTRUCTION.

Revision No.	Date	Remarks
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DOB APPLICATION NO.
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STATE OF NEW YORK · NICHOLAS P. TUCCI · 071681 · LICENSED PROFESSIONAL ENGINEER

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MECHANICAL
NOTES & SCHEDULES

DWG #
M-201.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 06 OF 11

ENERGY RECOVERY VENTILATOR SCHEDULE

UNIT NO.	SERVICE	LOCATION	MFR./MODEL	SUPPLY FAN						EXHAUST FAN						VOLTS/ PHASE/ HERTZ	MCA	MOP	RER	ER COP	EQUIPT EER	REMARKS
				VOLUME (CFM)	ESP (IN. WG.)	MOTOR HP	SPEED (RPM)	FAN SIZE	FAN QTY	VOLUME (CFM)	ESP (IN. WG.)	MOTOR HP	SPEED (RPM)	FAN SIZE	FAN QTY							
ERV–1	WEST SIDE APTS	ROOF	GREENHECK ERV–10–20H	570	0.25	1/2	918	DD104	DD104	875	0.25	1/2	1337	DD104	DD104	208/1/60	26.3	30	66.48	19.48	11	SUBMIT SHOP DRAWINGS
ERV–2	EAST SIDE APTS	ROOF	GREENHECK ERV–10–20H	570	0.25	1/2	918	DD104	DD104	875	0.25	1/2	1337	DD104	DD104	208/1/60	26.3	30	66.48	19.48	11	SUBMIT SHOP DRAWINGS

FURNISH AND INSTALL THE FOLLOWING:

- HEAVY GAUGE GALVANIZED STEEL HOUSING
- DWDI FORWARD CURVED WHEEL
- FACTORY SUPPLIED ROOF CURB WITH HORIZONTAL DISCHARGE
- ENERGY EFFICIENT MOTOR/ UL LISTED
- 1" WASHABLE ALUMINUM FILTERS

SPLIT SYSTEM AIR COOLED AIR CONDITIONING UNITS

DAIKIN

EVAPORATOR DATA

UNIT	SERVICE	TYPE	NOMINAL CAPACITY (TONS)	TOTAL CLG CAPACITY (BTUH)	TOTAL HTG CAPACITY (BTUH)	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ENTERING AIR DB (°F)	ENTERING AIR WB (°F)	ELECTRIC DATA VOLTS/ PHASE/ HERTZ	ELECTRIC DATA MCA	MODEL	WEIGHT (LBS)	DIMENSIONS (HxWxD) INCHES
AC–1.1	1ST FL– BASE BLDG	WALL MOUNTED	2.0	24,000	27,000	688	–	80	67	208/1/60	–	FXMQ24PVJU	80	12x40x28
AC–1.2	1ST FL– BASE BLDG	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–2.1	2ND FL– APARTMENT	WALL MOUNTED	1.5	18,000	20,000	500	–	80	67	208/1/60	–	FXAQ18PVJU	31	12x42x10
AC–2.2	2ND FL– APARTMENT	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–2.3	2ND FL– APARTMENT	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–3A.1	3RD FL– APT. A	WALL MOUNTED	2.0	24,000	27,000	688	–	80	67	208/1/60	–	FXMQ24PVJU	80	12x40x28
AC–3A.2	3RD FL– APT. A	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–3B.1	3RD FL– APT. B	WALL MOUNTED	1.5	18,000	20,000	500	–	80	67	208/1/60	–	FXAQ18PVJU	31	12x42x10
AC–3B.2	3RD FL– APT. B	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–3B.3	3RD FL– APT. B	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–4A.1	4TH FL– APT. A	WALL MOUNTED	2.0	24,000	27,000	688	–	80	67	208/1/60	–	FXMQ24PVJU	80	12x40x28
AC–4A.2	4TH FL– APT. A	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–4B.1	4TH FL– APT. B	WALL MOUNTED	1.5	18,000	20,000	500	–	80	67	208/1/60	–	FXAQ18PVJU	31	12x42x10
AC–4B.2	4TH FL– APT. B	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–4B.3	4TH FL– APT. B	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–5A.1	5TH FL– APT. A	WALL MOUNTED	2.0	24,000	27,000	688	–	80	67	208/1/60	–	FXMQ24PVJU	80	12x40x28
AC–5A.2	5TH FL– APT. A	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–5B.1	5TH FL– APT. B	WALL MOUNTED	1.5	18,000	20,000	500	–	80	67	208/1/60	–	FXAQ18PVJU	31	12x42x10
AC–5B.2	5TH FL– APT. B	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–5B.3	5TH FL– APT. B	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–6A.1	6TH FL– APT. A	WALL MOUNTED	2.0	24,000	27,000	688	–	80	67	208/1/60	–	FXMQ24PVJU	80	12x40x28
AC–6A.2	6TH FL– APT. A	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–6B.1	6TH FL– APT. B	WALL MOUNTED	1.5	18,000	20,000	500	–	80	67	208/1/60	–	FXAQ18PVJU	31	12x42x10
AC–6B.2	6TH FL– APT. B	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10
AC–6B.3	6TH FL– APT. B	WALL MOUNTED	1.0	12,000	13,500	300	–	80	67	208/1/60	–	FXAQ12PVJU	26	12x32x10

CONDENSER DATA

UNIT NO.	LOCATION	CONDENSER CFM @ 1.0" E.S.P.	ENTERING AIR TEMP. (°F)	TOTAL CLG CAPACITY (BTUH)	TOTAL HTG CAPACITY (BTUH)	CONDENSER ELECTRIC DATA VOLTS/ PHASE/ HERTZ	CONDENSER ELECTRIC DATA MCA	CONDENSER ELECTRIC DATA # OF COMP.	MODEL	WEIGHT (LBS)	DIMENSIONS (HxWxD) INCHES	IEER/SEER	HSPF (COP)	MEA NO.	REMARKS
ACCU–1	LOW ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS
ACCU–2	LOW ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS
ACCU–3A	LOW ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS
ACCU–3B	ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS
ACCU–4A	LOW ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS
ACCU–4B	ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS
ACCU–5A	LOW ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS
ACCU–5B	ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS
ACCU–6A	ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS
ACCU–6B	ROOF (SEE PLAN)	–	95	36,000	42,000	208/1/60	27	1	RXYMQ36PVJU	283	53x36x13	–/14	8.4 (2.9)	102–04–E VOL.6	PROVIDE SHOP DRAWINGS

NOTES:

1. INSTALL 7–DAY PROGRAMMABLE THERMOSTATS FOR AC UNIT CONTROL SIMILAR TO DAIKIN MODEL: BRC1E72 WITH INDEPENDENT COOL AND HEAT SETPOINTS, AUTOMATIC COOLING/HEATING CHANGEOVER, WEEKLY PROGRAMMING SCHEDULING.
2. INDOOR AC UNIT SHALL BE PROVIDED WITH CONDENSATE DRAIN AND ROUTED DN TO CELLAR LEVEL. CONDENSATE DRAIN PUMP WILL BE PROVIDED AS NECESSARY.
3. REFRIGERANT PIPING SHALL BE INSULATED AS PER NYCECC.
4. REFRIGERANT PIPING SIZES SHALL BE COORDINATED WITH MANUFACTURER BASED ON THE TOTAL PIPE RUN AS CONFIRMED IN THE FIELD.

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MECHANICAL
NOTES & SCHEDULES

DWG #
M-202.00

Signature:

Date: 11.13.13

Seal:

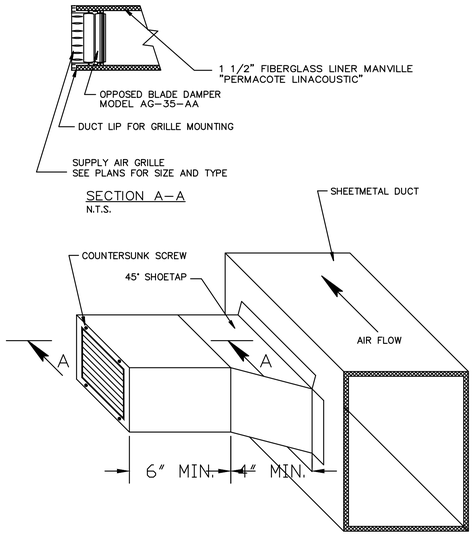
Scale: ¼" = 1'-0"

Drawn: TSF

Job #: 13221

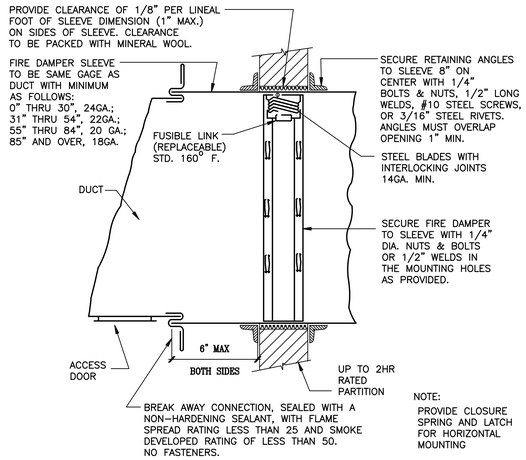
Checked: TSF

SHT. NO. 07 OF 11



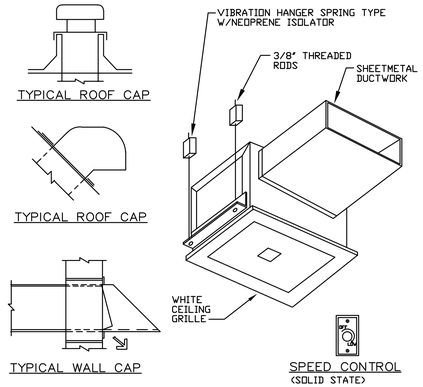
SIDEGRILLE DETAIL

NTS



SHUTTER TYPE FIRE DAMPER 1 1/2 HOUR RATING
LOW PRESSURE SYSTEMS

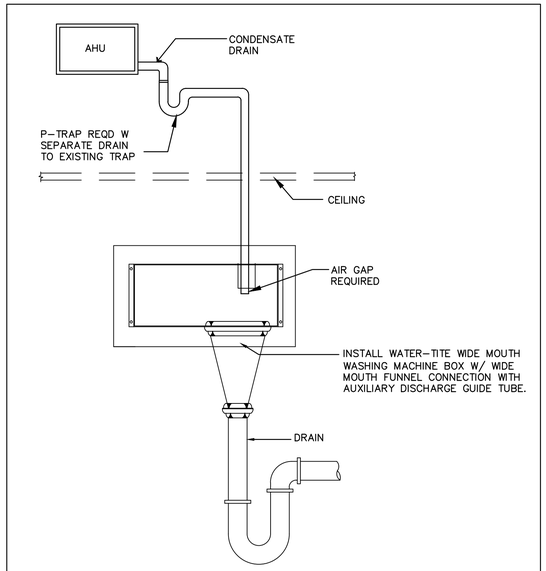
NOT TO SCALE



NOTES:
1.- PROVIDE BACKDRAFT DAMPER W/ BIRDSCREEN
2.- FLASH & SEAL WALL AND ROOF CAP
3.- PROVIDE INTERNAL ISOLATION AND SOUND INSULATION
4.- SUPPORT FAN FROM STRUCTURE

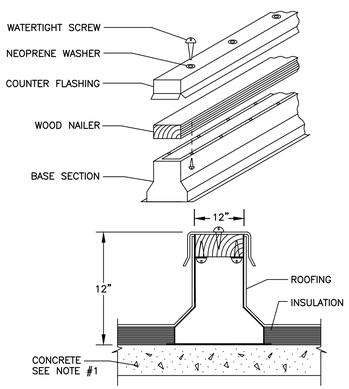
CABINET CEILING FAN DETAIL

N.T.S.



CONDENSATE DRAIN TO UTILITY WALL BOX

SCALE: NONE

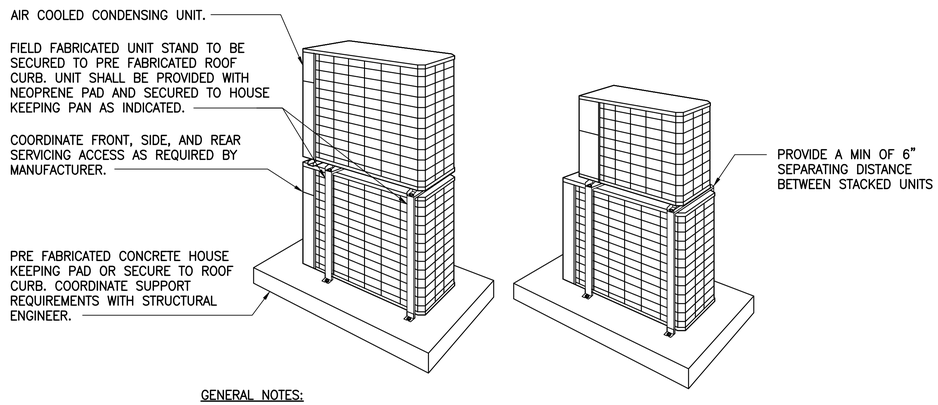


NOTE:

1. FOR METAL DECK ROOF CONSTRUCTION PROVIDE STEEL SUPPORT UNDER ROOF CURB.

ROOF CURB DETAIL

NOT TO SCALE

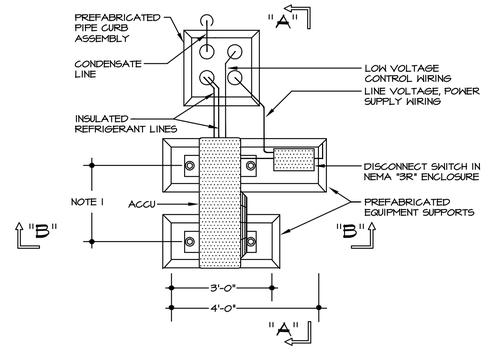


GENERAL NOTES:

1. COORDINATE PIPE SIZES AS PER MANUFACTURERS BASED ON TOTAL EQUIVALENT PIPE RUNS.
2. DETAIL TO BE USED FOR DESIGN INTENT AND REFERENCE ONLY. COORDINATE UNIT STAND FRAME WITH STRUCTURAL ENGINEER AS REQUIRED.

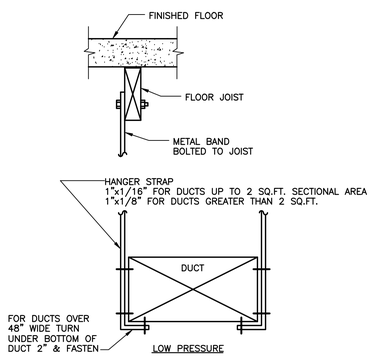
CONDENSING UNIT MOUNTING DETAIL

NOT TO SCALE



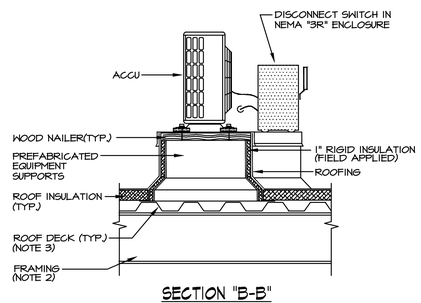
SPLIT SYSTEM ACCU INSTALLATION DETAIL

(N.T.S.)



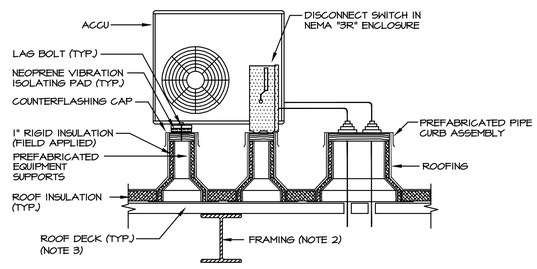
SUPPORT FOR RECTANGULAR DUCTS

NOT TO SCALE



SECTION "B-B"

(N.T.S.)



SECTION "A-A"

(N.T.S.)

NOTES:

1. COORDINATE SPACING WITH ACCU SHOP DRAWINGS.
2. REFER TO ARCHITECTURAL OR STRUCTURAL DRAWINGS FOR FRAMING LOCATIONS AND SPECIFICATIONS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DECK DETAILS.
4. PREFABRICATED EQUIPMENT SUPPORTS SHALL BE PATE MODEL #ES-5 OR APPROVED EQUAL.
5. PREFABRICATED PIPE CURBS SHALL BE PATE MODEL #PCA-5 CURB WITH #PCC-1 CAP, OR APPROVED EQUAL.

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MECHANICAL
NOTES & SCHEDULES

DWG #
M-203.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 08 OF 11

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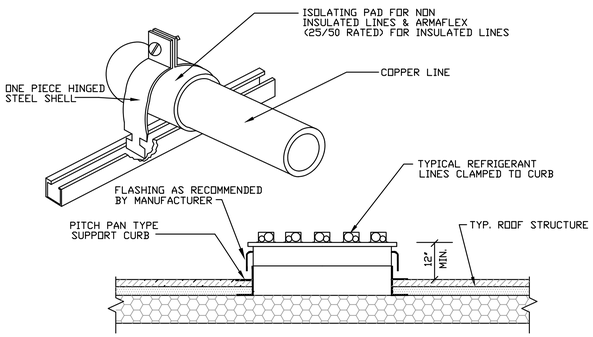
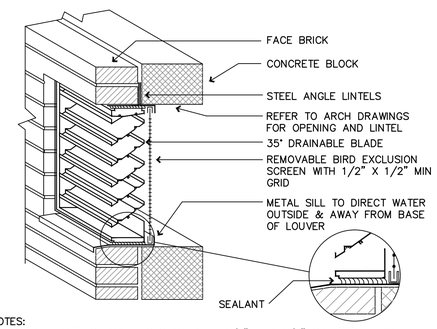


REFRIGERANT LINE SUPPORT DETAIL

N.T.S.



NOTES:

1 OVERALL SIZE OF OPENING SHOULD BE 1/4" AND 1/2" GREATER IN BOTH DIRECTIONS THAN EXTERNAL DIMENSIONS OF LOUVER FOR SIZES ≤ 48" AND > 48", RESPECTIVELY

2 MAX LOUVER WIDTH ≤ 5FT, USE MULLION CONNECTED SECTIONS FOR GREATER WIDTHS

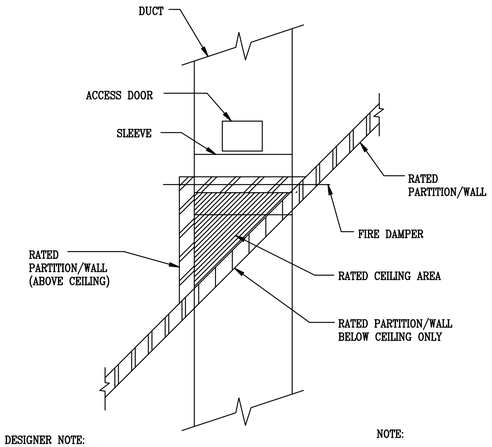
3 CAULK AND SEAL AROUND PERIMETER OF LOUVER SECTION AT WALL

4 PROVIDE ALUMINUM OR GALV EXPANDED BIRD EXCLUSION SCREEN ON INSIDE (OR OUTSIDE) OF LOUVER. (MIN FREE AREA 80% OF GROSS AREA) ATTACH TO OUTSIDE IF BLADE SEPARATION IS > 2 1/2"

5 CONSTRUCT EXTRUDED LOUVER OF NON-FERROUS CORROSION RESISTANT MATERIAL AND SECURE WITH SS OR ALUMINUM FASTENERS

SCALE: NONE

STATIONARY LOUVER IN MASONRY WALL



DESIGNER NOTE:

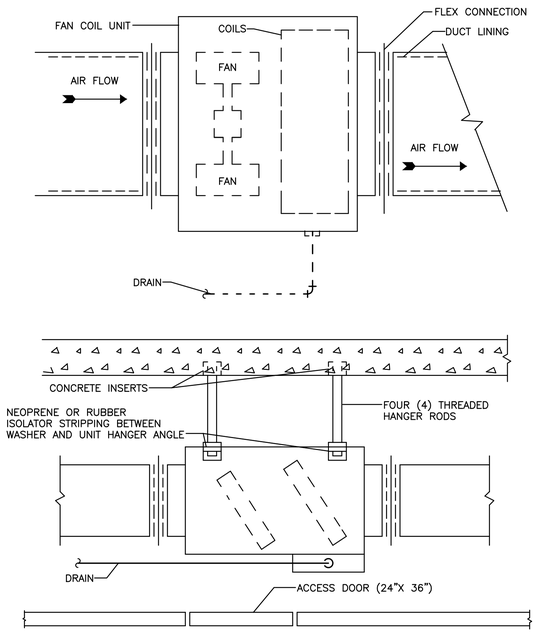
THIS MUST BE COORDINATED WITH THE ARCHITECT IN EVERY LOCATION IT OCCURS.

NOTE:

SEE FIRE DAMPER DETAIL FOR PROPER INSTALLATION

DUCT AT ANGLE THRU RATED WALL

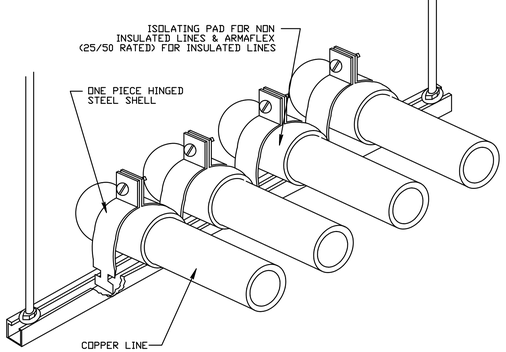
NOT TO SCALE



FAN COIL UNIT DETAIL

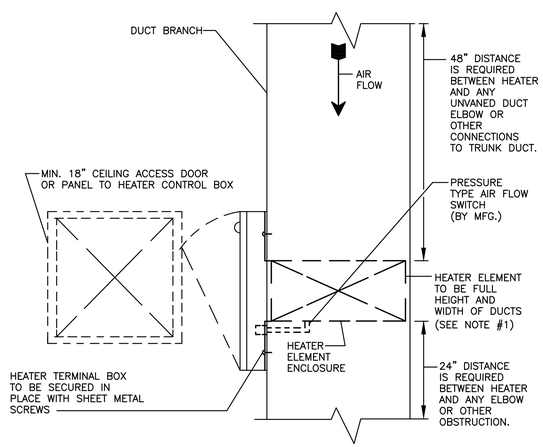
NOT TO SCALE

TYP. 3/8" HANGING RODS (THREADED) COORDINATE W/ STRUCTURAL ENGINEER AND ARCH. SUPPORTS MUST BE WELDED TO STRUCTURAL STEEL. TYPICAL.



REFRIGERANT LINE HORIZONTAL SUPPORT DETAIL

N.T.S.



NOTES:

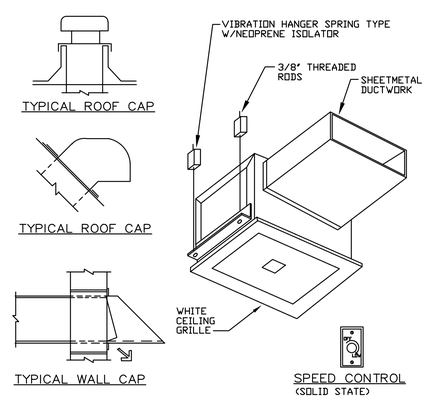
1.WHERE NECESSARY TO INSTALL HEATER LARGER OR SMALLER THAN DUCT, PROVIDE UP STREAM TRANSITION WITH MINIMUM 20 SLOPE. PROVIDE DOWM STREAM TRANSITION WITH MINIMUM 30° SLOPE.

2.INSTALL AS PER MFG. REQUIREMENTS TO AVOID STRATIFICATION OR INADEQUATE AIR FLOW.

o

ELECTRIC DUCT HEATER (SLIP-IN TYPE)

NOT TO SCALE



NOTES:

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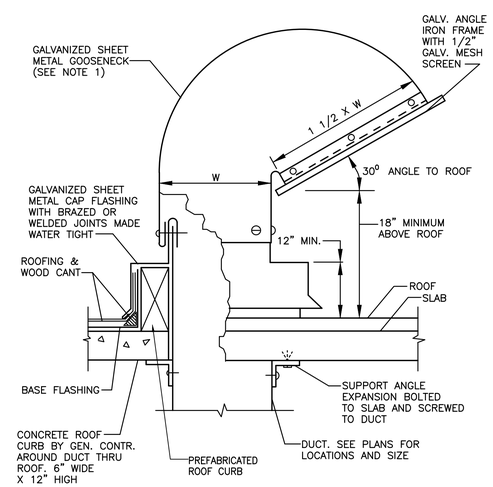
2.- FLASH & SEAL WALL AND ROOF CAP
3.- PROVIDE INTERNAL ISOLATION AND SOUND INSULATION
4.- SUPPORT FAN FROM STRUCTURE

CABINET CEILING FAN DETAIL

N.T.S.



NOTES:
ALL JOINTS SHALL BE PAINTED WITH ZINC CHROMATE, INCLUDING BRAZED/WELDED JOINTS OR RAW ENDS OF DUCT WORK OR ANGLES. BY SHEET METAL FABRICATOR.

GOOSENECK

NOT TO SCALE

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BROOKLYN N.Y. 11222

Title:
MECHANICAL NOTES & SCHEDULES

DWG.#
M-204.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
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	SHT. NO. 09 OF 11

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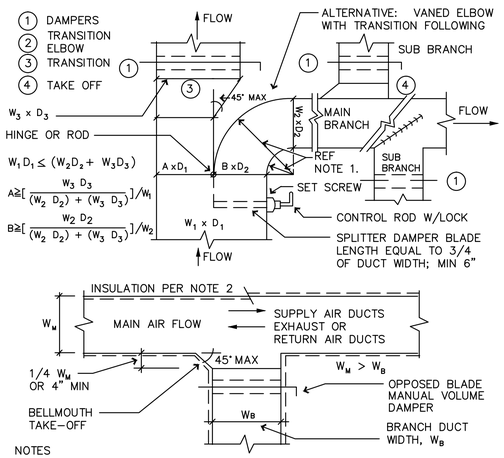


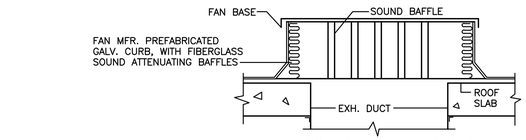
NOTES

1 R_1 & R_2 ARE RESPECTIVELY 1.75 AND 0.75 OF THE GREATER OF B OR W_2

2 SUPPLY DUCT CAN BE EXTERNALLY OR INTERNALLY INSULATED. EXHAUST AND RETURN AIR DUCTS EXTERNALLY INSULATED ONLY

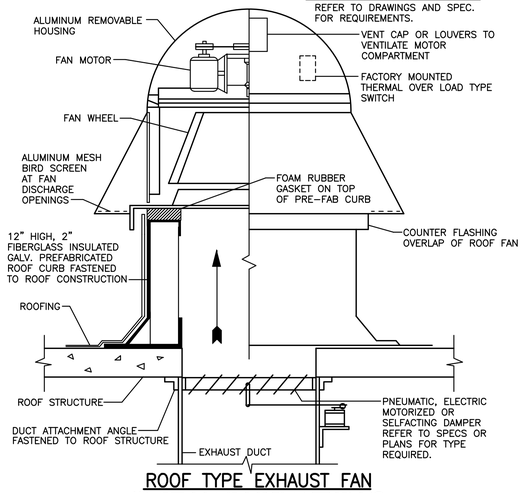
SCALE: NONE

DUCT MAIN AND BRANCH TAKE OFFS



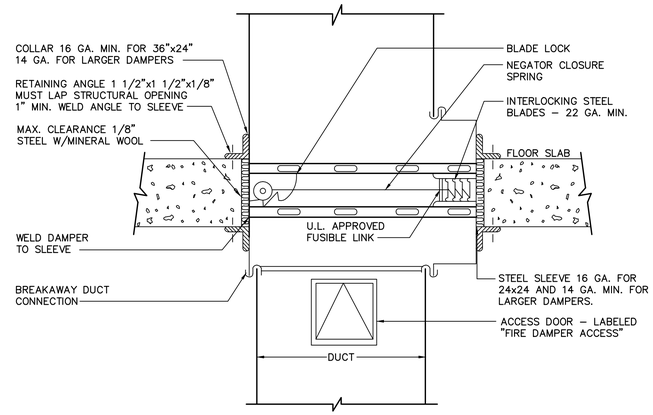
SOUND ATTENUATING CURB

REFER TO DRAWINGS AND SPEC. FOR REQUIREMENTS.



ROOF TYPE EXHAUST FAN WITH PREFABRICATED CURBS

NOT TO SCALE



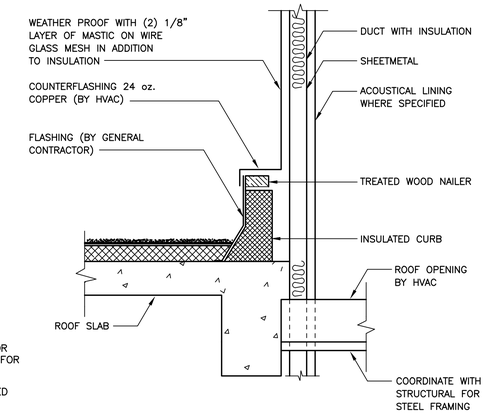
B.S.A. NO: 292-71-SA

NOTE:

1. DETAIL SHALL BE USED FOR REFERENCE ONLY. CONSULT MANUFACTURER RECOMMENDATION AND INSTALLATION INSTRUCTIONS FOR MOUNTING OF FIRE DAMPER.

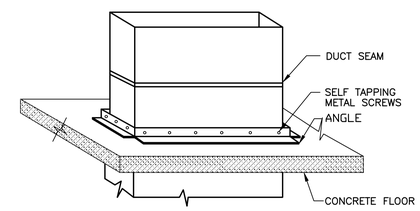
HORIZONTAL FIRE DAMPER INSTALLATION DETAIL

NOT TO SCALE



DUCT PENETRATION THROUGH ROOF

NOT TO SCALE

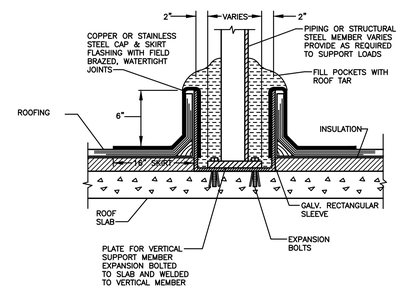


NOTE:

1. ANGLES SHALL BE 1-1/2"X1-1/2"X1/8" UP TO DUCT SIZE 60"X30" AND
2. PROVIDE FIRE DAMPERS FOR ALL DUCTS PENETRATING RATED FLOOR SLABS.
3. ALL DUCT PENTRATIONS SHALL CONFORM TO ALL STATE, CITY, AND LOCAL HAVING JURISDICTION.

DETAIL OF DUCT FLOOR SLAB PENETRATION

NOT TO SCALE

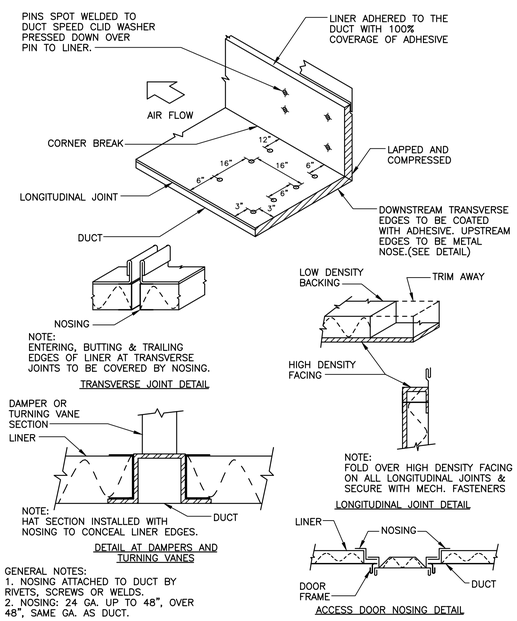


NOTES:

1. PIPING OR STRUCTURAL SUPPORTS OF BLACK STEEL STRUCTURE, SHALL HAVE ZINC CHROMATE OR RED LEAD PRIME COAT.

PITCH POCKET SLEEVES FOR EQUIPMENT, PIPE AND DUCT SUPPORTS OVER ROOF

NOT TO SCALE

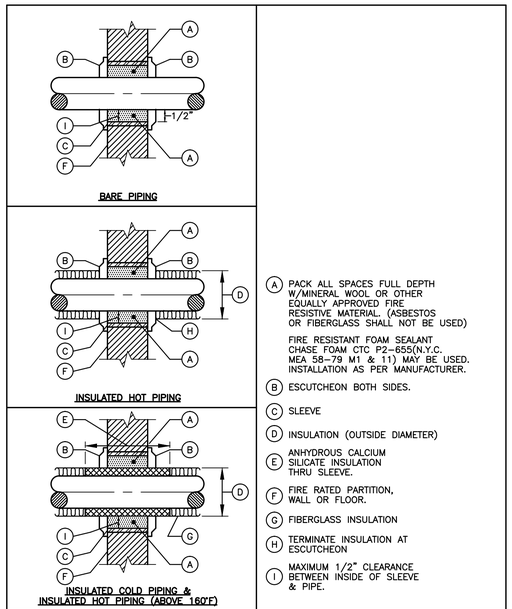


GENERAL NOTES:

1. NOSING ATTACHED TO DUCT BY RIVETS, SCREWS OR WELDS.
2. NOSING: 24 GA. UP TO 48", OVER 48", SAME GA. AS DUCT.

ACOUSTICAL DUCT LINER DETAIL

NOT TO SCALE



(A) PACK ALL SPACES FULL DEPTH W/MINERAL WOOL OR OTHER EQUALLY APPROVED FIRE RESISTIVE MATERIAL. (ASBESTOS OR FIBERGLASS SHALL NOT BE USED)

FIRE RESISTANT FOAM SEALANT CHASE FOAM CTC P2-655(N.Y.C. MEA 58-79 M1 & 11) MAY BE USED. INSTALLATION AS PER MANUFACTURER.

(B) ESCUTCHEON BOTH SIDES.

(C) SLEEVE

(D) INSULATION (OUTSIDE DIAMETER)

(E) ANHYDROUS CALCIUM SILICATE INSULATION THRU SLEEVE.

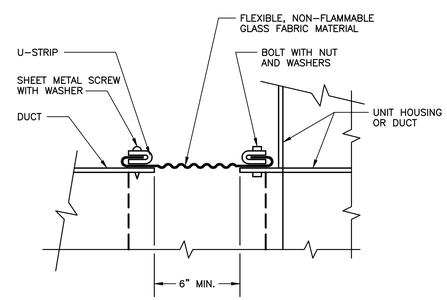
(F) FIRE RATED PARTITION, WALL OR FLOOR.

(G) FIBERGLASS INSULATION

(H) TERMINATE INSULATION AT ESCUTCHEON

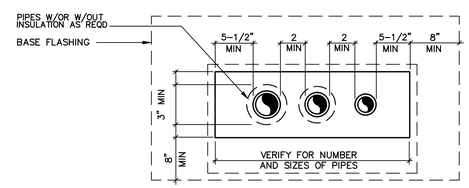
(I) MAXIMUM 1/2" CLEARANCE BETWEEN INSIDE OF SLEEVE & PIPE.

DETAIL OF PIPING PIERCING FIRE RATED PARTITIONS, WALLS & FLOORS.

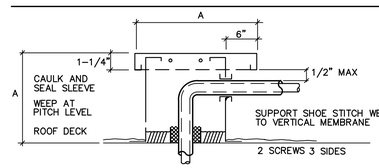


FLEXIBLE CONNECTION

NOT TO SCALE



PLAN VIEW



SECTION VIEW

NOTE:

1. CUT HOLES IN ROOF DECK TO FIT PIPE W/OR W/OUT INSULATION; SIZE TO ALLOW 1/2" CLEARANCE IN SLEEVE
2. SPUD GRAVEL BACK MIN 30" IN ALL DIRECTIONS FROM SUPPORTS. STRIP WITH LAYERS OF ROOFING FELT EMBEDDED IN HOT ASPHALT; GRAVEL TO MATCH EXI
3. HOUSING TOP AND SIDES 22 GA S.S.; BASE AND CAULKING SLEEVES 26 GA S.S.; ALL JOINTS AND SEAMS WATER TIGHT
4. VERIFY DIMENSIONS (A) REQUIRED FOR PIPE INCLUDING INSULATION

MULTIPLE PIPE PENETRATIONS THRU MEMBRANE ROOF

NOT TO SCALE

Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
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STATE OF NEW YORK · NICHOLAS P. TUCCI · 071681 · LICENSED PROFESSIONAL ENGINEER

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MECHANICAL NOTES & SCHEDULES

DWG #
M-205.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 10 OF 11

1. GENERAL CONDITIONS

A. THE APPLICABLE PROVISIONS OF THE GENERAL CONSTRUCTION SPECIFICATIONS SHALL APPLY TO THE FOLLOWING SPECIFICATION ARTICLES.

B. CONTRACTOR TO ADHERE TO ALL BUILDING STANDARDS AND BUILDING CONSTRUCTION SPECIFICATIONS AND DETAILS.

2. NOTICE TO BIDDERS

A. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A CONTRACT PRICE FOR THE MATERIAL AND LABOR PROVISIONS.

B. WHEN CONFLICTS OCCUR IN THE SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.

C. THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.

D. THE CONTRACTOR SHALL COORDINATE HIS WORK OR ADJUST SAME TO THAT OF OTHER TRADES, IN ORDER THAT CONFLICTS IN SPACE LOCATIONS DO NOT OCCUR.

E. THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH THE WORK OF OTHER TRADES, SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.

F. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH IT'S COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COST TO THE OWNER.

G. ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICAL AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALSO ALLOW IN HIS PRICE FOR REMOVAL AND REROUTING OF NEW AND EXISTING DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS SUBJECT TO APPROVAL OF ARCHITECT. MAINTAIN MAXIMUM PIPE AND DUCT ELEVATIONS.

H. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK PROPOSAL.

I. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING EQUIPMENT, ETC., WHICH AFFECT THIS WORK AND THE ACCESS TO SUCH SPACES HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION.

3. OPERATING AND MAINTENANCE INSTRUCTIONS

A. AFTER FINAL TEST AND ADJUSTMENTS FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATION FOR EQUIPMENT INSTALLED. A SIGNED RECEIPT WHICH SHALL BE OBTAINED FROM THE OPERATOR SHALL BE CONSTRUED AS EVIDENCE THAT INSTRUCTIONS WERE SATISFACTORY.

B. FURNISH TWO (2) COPIES OF WRITTEN DESCRIPTIONS OF ALL SYSTEMS COVERING ALL MANUAL OPERATING PROCEDURES, AUTOMATIC CONTROL DESCRIPTIONS AND AUTOMATIC CONTROL TEMPERATURE AND PRESSURE SETTINGS. WRITTEN DESCRIPTIONS SHALL INCLUDE LUBRICATION SCHEDULES, PARTS LIST, PERFORMANCE SERVICE FOR EQUIPMENT, FILTER SIZE/QUANTITY SCHEDULE, ETC. WHEN MANUFACTURERS' STANDARD INSTRUCTIONS ARE UTILIZED, THEY SHALL BE CLEARLY MARKED IN INDICATE APPLICABILITY.

4. SHOP DRAWINGS AND EQUIPMENT SUBMISSIONS

A. PRIOR TO SHIPMENT OF EQUIPMENT OR START OF INSTALLATION OF SYSTEM COMPONENTS, SUBMIT THE FOLLOWING FOR APPROVAL:

1) A MINIMUM OF FOUR (4) SETS OF DETAILED CONSTRUCTION SHOP DRAWINGS FOR DUCTWORK LAYOUT, PIPING LAYOUT, EQUIPMENT AND SYSTEMS. DRAWINGS SHALL INDICATE ALL DIMENSIONS, MATERIALS OF CONSTRUCTION AND METHODS OF ASSEMBLY.

2) EQUIPMENT SUBMITTALS FOR ALL EQUIPMENT, ASSOCIATED DEVICES AND MATERIALS INDICATING CAPACITIES AND PERFORMANCE DATA.

3) SHEET METAL SHOP DRAWINGS SHALL BE AT A MINIMUM OF 3/8" = 1'-0" SCALE. THESE SHOP DRAWINGS SHALL BE USED AS THE COORDINATION DRAWINGS FOR ALL TRADES.

4) IN LETTER FORM, MANUFACTURER'S NAMES FOR ACCESSORIES AND INCIDENTALS NOT COVERED BY SHOP DRAWINGS.

5) ELECTRIC WIRING DIAGRAMS AND AUTOMATIC CONTROL DIAGRAMS AND SEQUENCE OF OPERATION. THE WIRING DIAGRAMS MUST BE COMPLETE AND COORDINATED WITH THE EQUIPMENT ACTUALLY INSTALLED.

5. RECORD DRAWING

A. REPRODUCIBLE RECORD DRAWINGS SHALL BE SUPPLIED UPON WHICH CORRECTIONS SHALL BE MADE TO PROVIDE AN ACCURATE AND COMPLETE RECORD OF THE WORK AS INSTALLED.

6. APPROVALS AND SUBSTITUTIONS

A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT WHEREVER A MANUFACTURER IS SPECIFIED AND SUBSTITUTIONS ARE MADE, THEY SHALL CONFORM IN ALL RESPECTS TO THE SPECIFIED ITEM. CRITERIA AS DELINEATED FOR EQUIPMENT SHALL BE INTERPRETED AS MINIMUM PERFORMANCE REQUIREMENTS.

B. BASE ALL BIDS ON THE EQUIPMENT AND MANUFACTURERS LISTED. IF SUBSTITUTION IS PROPOSED, MAKE APPLICATION TO THE OWNER IN WRITING STATING THE COST DIFFERENTIAL INVOLVED.

7. PERFORMANCE TESTS

A. UPON COMPLETION OF THE INSTALLATION, TEST AND BALANCE ALL EQUIPMENT AND SYSTEMS UNDER FIELD OPERATING CONDITIONS TO DEMONSTRATE IT'S COMPLIANCE WITH SPECIFICATION REQUIREMENTS.

B. SHOULD ANY PART OF THE SYSTEM FAIL TO MEET THE CONTRACT REQUIREMENTS, ADJUST, REPAIR OR REPLACE ALL DEFECTIVE OR INOPERATIVE PARTS AND AGAIN CONDUCT THE COMPLETE PERFORMANCE TEST.

C. SUBMIT TEST RESULTS TO THE OWNER AND ENGINEER.

8. TESTING, ADJUSTMENTS AND BALANCING

A. AIR SYSTEM BALANCING SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED TESTING AND BALANCING FIRM WITH A MINIMUM OF FIVE YEARS' EXPERIENCE. SUBMIT EVIDENCE OF QUALIFICATIONS.

B. MAKE ALL REQUIRED ADJUSTMENTS OF AIR SYSTEM DEVICES UNTIL ALL SPECIFIED PERFORMANCES ARE MET. PROVIDE VOLUME DAMPERS AS REQUIRED FOR FINAL BALANCING OF AIR SYSTEMS.

C. BALANCE ALL SUPPLY, RETURN FRESH AIR INTAKE AND EXHAUST DUCTWORK TO THE QUANTITIES INDICATED ON THE DRAWINGS WITH FOLLOWING TOLERANCES:

1) FANS – DESIGN VOLUME PLUS 5%.

2) LEAKAGE – 5% MAXIMUM.

3) OUTLETS – DESIGN VOLUME PLUS 5%.

D. WHEN BALANCING AIR CONDITIONING SYSTEMS AND FANS, CONTRACTOR WILL FURNISH AND INSTALL THE REQUIRED PULLEYS, SHEAVES AND BELTS TO OBTAIN THE DESIGN AIR QUANTITIES AND OPERATING STATIC PRESSURE.

9. VERIFYING EXISTING CONDITIONS, REMOVALS AND ALTERATION

A. THE CONTRACTOR SHALL VISIT THE PREMISES TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SPECIFICATIONS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO THE SUBMISSION OF A BID PROPOSAL. NO ALLOWANCES WILL BE MADE FOR THE FAILURE TO COMPLY WITH THESE REQUIREMENTS AND A BID PROPOSAL SHALL BE CONSTRUED AS EVIDENCE HE HAS DONE SO.

10. CODES, PERMITS AND INSPECTIONS

A. ALL WORK SHALL MEET OR EXCEED LATEST REQUIREMENT OF NATIONAL, STATE, COUNTY, MUNICIPAL AND OTHER AUTHORITIES EXERCISING JURISDICTION OF THE WORK OF THIS PROJECT.

B. ANY PORTION OF THE WORK WHICH IS NOT SUBJECT TO APPROVAL OF AN AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION REQUIREMENTS.

C. COMPLY WITH APPLICABLE UTILITY COMPANY RULES AND REGULATIONS.

D. COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS.

E. SECURE PERMITS AND INSPECTION CERTIFICATES AND TRANSMIT SAME TO THE OWNER AT THE COMPLETION OF THE WORK.

11. CODE APPROVAL

A. UPON COMPLETION OF THIS VENTILATING SYSTEM, A TEST SHALL BE CONDUCTED IN THE PRESENCE AND UNDER THE DIRECTION OF A LICENSED AND PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT BEFORE THE SYSTEM IS APPROVED.

B. THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO CONDUCTS THE TEST SHALL CERTIFY THAT THE SYSTEM COMPLIES WITH APPLICABLE LAWS. HE SHALL ALSO FILE WITH THIS CERTIFICATION A REPORT OF THE TEST. THE TEST AND REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE SUPERINTENDENT.

C. A STATEMENT SHALL BE FILED BY THE OWNER THAT THE SYSTEM OF VENTILATION WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING NORMAL OCCUPANCY OF THE STRUCTURE THAT'S PROVIDED IN THE APPLICABLE SECTIONS OF THE CODE.

D. ALL FIRE DAMPERS SHALL BE TYPE APPROVED BY THE BOARD OF STANDARDS AND APPEALS.

E. VENTILATION SYSTEM INSTALLED WILL COMPLY WITH RULES OF THE DEPARTMENT OF THE BUILDING IN EFFECT.

12. GUARANTEE AND SERVICE

A. THE CONTRACTOR SHALL GUARANTEE AND SERVICE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE FINAL ACCEPTANCE OF THE INSTALLATION.

B. THE CONTRACTOR SHALL, DURING THE PERIOD OF THE GUARANTEE, REPLACE OR REPAIR AT HIS OWN EXPENSE ANY PIECE OF EQUIPMENT AND/OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE. THE REPLACEMENT OR REPAIR SHALL BE PERFORMED THE SAME DAY OF NOTIFICATION IN AN EMERGENCY FASHION WHEN NOTIFIED BY THE OWNER OR AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGE TO SURROUNDING WORK CAUSED BY THE FAILURE, REPAIR OR REPLACEMENT OF DEFECTIVE EQUIPMENT.

C. ALL REFRIGERATION COMPRESSORS SHALL HAVE A FACTORY GUARANTEE INCLUDING PARTS AND LABOR FOR FIVE YEARS TOTAL.

D. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENT OF THE DRAWINGS AND SPECIFICATIONS, AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVALS.

13. WORK INCLUDED UNDER OTHER SECTIONS OF WORK

A. ITEMS OF WORK WHICH SHALL BE INCLUDED UNDER OTHER SECTIONS OF WORK ARE AS FOLLOWS:

1) REPAIR OF FIREPROOFING DAMAGED DURING THE INSTALLATION OF HANGERS FOR DUCTWORK AND PIPING.

2) PROVISION OF ELECTRICAL DISCONNECT SWITCHES OR FUSES.

3) ELECTRICAL WIRING FOR POWER, AUTOMATIC, SAFETY AND INTERLOCKING CONTROLS.

4) PROVISION OF DUCT MOUNTED SMOKE DETECTORS (TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR).

5) FINISH PAINTING OF EQUIPMENT (EXCEPT FACTORY SUPPLIED AND SPECIFIED).

6) CONCRETE FOUNDATIONS, BASES OR CURBS.

14. SHEET METAL DUCTWORK

A. ALL DUCTWORK, DAMPERS AND ALL AUXILIARY DEVICES AND WORK NECESSARY TO MAKE THE VARIOUS AIR CONDITIONING AND VENTILATING SYSTEMS COMPLETE AND READY FOR SATISFACTORY OPERATION SHALL BE FURNISHED AND INSTALLED.

B. ALL LOW PRESSURE DUCTS SHALL BE GALVANIZED STEEL (24 GAUGE MINIMUM), EXCEPT WHERE OTHERWISE SPECIFIED, WITH GAUGES, BRACING AND CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL STANDARDS. DRIVE SLIPS AND SNAP LOCK CONNECTIONS ARE NOT PERMITTED. TOTAL AIR VOLUME FOR LOW PRESSURE DUCT SYSTEMS SHALL BE AT LEAST 95% OF FAN SUPPLY WHEN MEASURED BY DUCT TRAVERSES TAKEN WITH A PITOT TUBE AND WATER MANOMETER.

C. ALL LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH SMACNA STANDARDS FOR 2" WG CONSTRUCTION.

D. PROVIDE MANUAL DAMPERS IN EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS FOR BALANCING PURPOSES, EACH PROVIDED WITH OPERATOR AND LOCKING DEVICE. INSTALL DIVERTING VANES AT BRANCHES CONNECTED INTO THE MAIN WITHOUT A NECK.

E. PROVIDE FUSIBLE LINK FIRE DAMPERS AT LOCATIONS SHOWN ON DRAWINGS AND WHERE NECESSARY TO COMPLY WITH LOCAL OR OTHER AGENCIES OR JURISDICTIONS REQUIRING THEIR INSTALLATIONS AND IN COMPLIANCE WITH THEIR CONSTRUCTION REQUIREMENTS. FUSIBLE LINK FIRE DAMPERS SHALL BE AS MANUFACTURED BY RUSKIN MFG. CO., MODEL NO. 1BD2, TYPE "B" (BSA 292-72-SA) OR APPROVED EQUAL. FUSIBLE LINK DAMPERS SHALL BE UL RATED STEEL CURTAIN TYPE WITH RECESSED FRAMES.

F. PROVIDE HANGERS AND FASTENINGS ADEQUATE TO INSURE PERMANENT STABILITY AND IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS. WHERE REQUIRED, PROVIDE SUPPLEMENTARY STEEL ANGLES OR CHANNELS. DO NOT HANG OR SUPPORT ONE DUCT FROM ANOTHER.

G. ALL 90 DEGREE ELBOWS ARE TO BE FULL RADIUS THROAT AND HEEL. IF SQUARE ELBOW IS USED DUE TO LIMITED SPACE, TURNING VANES, DOUBLE AIRFOIL TYPE WILL BE USED. ALL TRANSITIONS, OFFSETS, DROPS OR RAISES ARE TO HAVE RADIUS TYPE LAYOUT. NO SHARP ANGLED FITTINGS (MORE THAN 15 DEGREES) SHALL BE USED.

H. DUCTWORK LAYOUTS AND ROUTES AS SHOWN ON THE DRAWING ARE SCHEMATIC; THEREFORE, CHANGES IN DUCT SIZES AND/OR LOCATIONS SHALL BE MADE WHERE NECESSARY TO CONFORM TO SPACE CONDITIONS OR OBTAIN MAXIMUM HEADROOM CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER.

I. AIR DIFFUSERS AND GRILLES SHALL BE LOCATED IN CONFORMANCE TO ARCHITECTURAL REFLECTED CEILING PLANS, WHERE SO INDICATED.

J. WHERE DUCTS ARE REQUIRED TO BE REMOVED, ALL OPENINGS IN REMAINING DUCTS SHALL BE CAPPED AIRTIGHT.

K. WHERE DUCTS ARE SHOWN TO BE ACOUSTICALLY LINED, THE SIZES SHOWN ON THE PLANS SHALL BE THE CLEAR INSIDE DIMENSIONS WHEN LINING IS TO BE PROVIDED.

L. ALL LOW PRESSURE DUCTWORK WITH A STATIC PRESSURE OF 2 INCHES WATER GAUGE OR LESS SHALL BE SEALED WITH DUCT SEALANT TO MAINTAIN A LEAKAGE RATE OF NO GREATER THAN 5 PERCENT OF AIR VOLUME. APPLY DUCT SEALANT TO ALL TRANSVERSE SEAMS AND JOINTS.

M. WHERE THE TRADE ELECTS TO USE "DUCT-MATE" FOR JOINTS OR SIMILAR PRODUCT, PVC CLIPS ARE NOT PERMITTED (USE METAL) AND ALL CORNERS SHALL BE BOLTED (BOLTLESS CONNECTORS ARE NOT PERMITTED) EXCEPT WHERE LOCAL CODES PERMIT DUCT-MATE JOINTS AS BREAKAWAY CONNECTION AT FIRE DAMPERS. ONLY GASKETS MANUFACTURED BY DUCT-MATE ARE ACCEPTABLE.

N. WHERE SHOWN ON DRAWINGS AND UNLESS OTHERWISE SPECIFIED, OUTDOOR LOUVERS TO BE PROVIDED AS MANUFACTURED BY ARROW LOUVER AND DAMPER CO. OR CONSTRUCTION SPECIALTIES. LOUVERS SHALL BE AN EXTRUDED ALUMINUM STRUCTURE WITH AN ANODIZED ALUMINUM MILL FINISH OR FINISH AS SPECIFIED BY THE BUILDING MANAGEMENT. LOUVERS ARE ALSO TO BE PROVIDED WITH 1/2" WIRE MESH ALUMINUM BIRD SCREENS. ALL LOUVER SECTIONS NOT IN USE SHALL BE BLANKED-OFF WITH AN INSULATED SHEET METAL PANEL.

O. AUTOMATIC DAMPERS REQUIRING MODULATING CONTROL SHALL BE RUSKIN DAMPER CO., MODEL CD60 OPPOSED BLADE DAMPER. DAMPER BLADES TO BE CONSTRUCTED OF 14 GAUGE GALVANIZED STEEL. BLADES TO BE ROLLED FORMED AIR FOIL TYPE ENGINEERED FOR MINIMUM AIR LEAKAGE WITH RUSKIPRENE SEALS FITTED INTO MECHANICALLY LOCKED GROOVE INSERTS IN BLADE EDGE. JAMB SEALS SHALL BE FLEXIBLE METAL, COMPRESSION TYPE TO PREVENT LEAKAGE BETWEEN BLADE DAMPER AND FRAME. DAMPER BLADE BEARINGS SHALL BE OF STAINLESS STEEL SLEEVE. DAMPERS SHALL BE CERTIFIED THAT LEAKAGE SHALL NOT EXCEED 1% WITH THE DAMPER CLOSED AND HOLDING 5" W.G. PRESSURE ACROSS THE FACE.

15. GRILLES, REGISTERS AND DIFFUSERS – GENERAL

A. FURNISH AND INSTALL ALL METAL DIFFUSERS, GRILLES AND REGISTERS AS INDICATED ON DRAWINGS. ALL SIZES, AIR DISTRIBUTION PATTERNS AND AIR VOLUME CAPACITIES SHALL BE AS SPECIFIED ON THE DRAWINGS.

B. AIR SUPPLY REGISTERS SHALL BE PROVIDED WITH ADJUSTABLE FACE LOUVERS PARALLEL TO THE LONG DIMENSION. PROVIDE KEY OPERATED OPPOSED BLADE DAMPERS FIXEDLY ATTACHED TO THE GRILLES.

C. AIR RETURN GRILLES AND REGISTERS SHALL BE PROVIDED WITH FIXED FACE LOUVERS PARALLEL TO THE LONG DIMENSION AND SET AT 45 DEGREE ANGLE. FOR REGISTERS, PROVIDE KEY OPERATED OPPOSED BLADE DAMPERS FIXEDLY ATTACHED TO THE GRILLES.

D. ALL AIR OUTLETS SHALL BE STEEL AND SHALL BE FACTORY PAINTED WITH ACRYLIC WHITE ENAMEL PAINT FINISH OR OTHER COLOR AS DIRECTED BY ARCHITECT.

E. ALL CEILING TYPE AIR DIFFUSERS SHALL BE PROVIDED WITH EQUALIZING DEFLECTOR AND VOLUME DAMPERS.

F. WHERE INDICATED ON DRAWINGS, REGISTERS INDICATED AS UNDERWRITERS' APPROVED SHALL BE FURNISHED WITH A FUSIBLE LINK SELF-CLOSING REGISTER HAVING FUSIBLE LINK APPROVED BY UNDERWRITERS' LABORATORIES.

G. A SCHEDULE OF DIFFUSERS, GRILLES AND REGISTERS WITH MANUFACTURERS' MODELS, SIZES, ACCESSORIES, FINISHES, ETC., SHALL BE SUBMITTED FOR APPROVAL PRIOR TO RELEASE FOR FABRICATION AND DELIVERY.

16. INSULATION REQUIREMENTS

A. INSULATION SHALL BE APPLIED TO DUCTWORK OF MATERIALS AS SPECIFIED HEREIN AND FOR APPLICABLE SYSTEMS OF THIS PROJECT.

B. INSULATION SHALL BE CONTINUOUS THROUGH WALL AND SLAB OPENINGS.

C. INSULATION OF COLD SURFACES WHERE VAPOR BARRIER JACKETS ARE SPECIFIED SHALL BE APPLIED WITH AN UNBROKEN VAPOR SEAL. HANGERS AND SUPPORTS THAT ARE SECURED TO COLD SURFACES SHALL BE ADEQUATELY INSULATED TO PREVENT CONDENSATION.

D. WHERE INSULATION IS SPECIFIED FOR PIPING, INSULATE SIMILARLY ALL CONNECTIONS, VENTS, DRAINS, FLANGES, FITTINGS, VALVES, TANKS, PUMP CASINGS AND OTHER PARTS OF THE SYSTEM SUBJECT TO HEAT GAIN OR LOSS AND TO PREVENT CONDENSATION.

E. NOTE THAT EQUIPMENT CASINGS, WHICH ARE INTERNALLY AND ACOUSTICALLY INSULATED, NEED NOT BE INSULATED IN THE EXTERIOR. ACOUSTIC LINED SUPPLY DUCTWORK SHALL BE INSULATED EXTERNALLY IN ADDITION TO ACOUSTIC LINING.

F. DUCTWORK INSULATION

1) ALL NEW AND EXISTING SHEET METAL SUPPLY DUCTWORK SHALL BE INSULATED WITH 1-1/2" THICK FLEXIBLE DUCT INSULATION, 0.75 LB/CU.FT. DENSITY WITH A MAX. K FACTOR OF .30 AT 75° MEAN TEMPERATURE, WITH REINFORCED FOIL FACED, FLAME RESISTANT, ALUMINUM FOIL VAPOR BARRIER. INSULATION AND FACING WILL HAVE A COMBINED FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50. ALL INSULATION SHALL BE SECURED WITH DUCT ADHESIVE AND SEEMS SEALED BY TWO-INCH SEALING LIP WITH ADHESIVE AND FASTENED WITH 16 GAUGE RUST RESISTANT WIRE OR FIBERGLASS CORD ON 12" CENTERS. ON DUCTS OVER 24" WIDE, WELDED PINS AND CLIPS SHALL BE USED ON THE UNDERSIDE FOR FASTENING INSULATION.

2) FRESH AIR INTAKE, MIXED AIR DUCTWORK AND LOUVER BLANK-OFF PANELS SHALL BE INSULATED WITH RIGID DUCT INSULATION 4.2 LBS/CU.FT. DENSITY WITH A MAX. K FACTOR OF .24 AT 75 DEGREE MEAN TEMPERATURE WITH WHITE VINYL FOIL BARRIER FACING. INSULATION AND FACING WILL HAVE A COMBINED FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50. INSULATION SHALL BE IMPALED OVER WELDED PINS WITH CLIPS FIRMLY EMBEDDED INTO INSULATION. ALL JOINTS AND CLIPS SHALL BE SEALED WITH MATCHING STRIPS OF VINYL COATED VAPOR BARRIER LAMINATE SIMILAR TO OWENS CORNING 24 ASJ FOR DUCTS.

G. PIPING INSULATION

1) CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK MOLDED GLASS FIBER WITH A MAXIMUM K FACTOR OF .24 AT 75 DEGREE F MEAN TEMPERATURE AND FACTORY APPLIED VAPOR BARRIER JACKET. INSULATION AND JACKET WILL HAVE A COMBINED FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50.

2) ALL PIPING INSULATION TO BE INSTALLED WITH LONGITUDINAL LAP AND VAPOR BARRIER JOINT SEAL STRIPS WITH ADHESIVE OR SELF-SEALING LAPS. FITTINGS AND VALVES SHALL BE INSULATED WITH MOLDED FITTINGS MITERED SEGMENTS OR COMPRESSED BLANKET INSULATION. ALL EXPOSED PIPING SHALL HAVE FACTORY ATTACHED PRE-SIZED GLASS CLOTH COVERED VAPOR BARRIER JACKET. EXPOSED PIPE FITTINGS SHALL BE FINISH WITH OPEN WEAVE FABRIC AND TWO COATS OF VAPOR BARRIER COATING.

3) FITTINGS AND VALVES SHALL BE INSULATED WITH SEGMENTS OF THE MOLDED INSULATION OR MOLDED FIBERGLASS FITTINGS WIRED SECURELY IN PLACE. FLANGES SHALL BE INSULATED WITH SECTIONAL PIPE INSULATION EXTENDING A MINIMUM OF 1" BEYOND THE END OF THE BOLTS. BOLT AREA TO BE FILLED WITH MINERAL WOOD CEMENT. THICKNESS OF FITTINGS, VALVE AND FLANGE INSULATION SHALL BE SAME AS ADJOINING PIPE INSULATION. CONCEALED FITTINGS, ETC., MAY BE INSULATED WITH 1 LB. FIBERGLASS BLANKET WRAPPED FIRMLY UNDER COMPRESSION, 2 TO 1 AND SECURED WITH COPPER-CLAD WIRE.

4) INSULATION PIPE HANGER SHIELD SHALL BE INSTALLED AT HANGERS FOR INSULATED PIPING. SHIELD LENGTH AND MINIMUM SHEET METAL GAUGE SHALL CONFORM TO THE FOLLOWING SCHEDULE:

PIPE SIZE	SHIELD LENGTH	MINIMUM GAUGE
1/2" TO 1-1/2"	4"	16
2" TO 6"	6"	20

H. ACOUSTICAL TREATMENT

1) FURNISH AND INSTALL ACOUSTICAL LINING IN DUCTWORK PLENUMS AND CASINGS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

2) ACOUSTICAL LINING WILL BE AS MANUFACTURED BY OWENS CORNING. FIBERGLASS DUCT LINER WILL BE A 1-1/2 LBS. PER CU.FT. DENSITY SEMI-RIGID GLASS FIBER BOARD WITH BINDER COAT ON AIR SIDE, MAXIMUM K FACTOR OF 0.24 AT 75 DEGREES F MINIMUM FOR USE AT AIR VELOCITIES UP TO 6000 FPM. ACOUSTICAL LINING WILL HAVE A FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50. BINDER COAT TO BE BLACK FOR DETECTION OF DAMAGE TO BINDER SURFACE.

3) INSTALL LINER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COMPLETELY COVER ALL PORTIONS OF DUCTWORK PLENUMS AND CASINGS WITH APPROVED ADHESIVE. INSTALL LINER WITH ALL TRAVERSE JOINTS NEATLY BUTTED WITH NO INTERRUPTIONS OR GAPS. COVER ALL EXPOSED EDGES, JOINTS, MECHANICAL FASTENERS AND ANY DAMAGED AREAS WITH ADHESIVE. ADDITIONALLY, SECURE LINER WITH APPROVED MECHANICAL FASTENERS INSTALLED IN ACCORDANCE WITH SMACNA DUCT LINER APPLICATION STANDARD.

4) ALL AIR CONDITIONING SUPPLY AIR DUCTWORK SHALL BE ACOUSTICALLY LINED FOR A MINIMUM DISTANCE OF 15 FEET DOWNSTREAM OF A FAN DISCHARGE WITH A MINIMUM OF ONE-INCH THICK ACOUSTICAL LINING.

5) ALL RETURN/EXHAUST FANS SHALL BE ACOUSTICALLY LINED FOR A MINIMUM DISTANCE OF 15 FEET OF THE FAN'S INTAKE AND DISCHARGE OPENINGS WITH A MINIMUM OF ONE INCH THICK ACOUSTICAL LINING.

17. ELECTRICAL WIRING AND WIRING DIAGRAMS

A. ELECTRICAL WIRING FOR POWER, AUTOMATIC TEMPERATURE, SAFETY AND INTERLOCKING CONTROLS FOR MOTORS, MOTOR STARTER AND OTHER ELECTRICAL APPARATUS AND DEVICES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNDER ANOTHER DIVISION OF CONTRACT WORK.

B. THE MECHANICAL CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL TERMINAL POINT TO TERMINAL POINT, COMPLETELY COORDINATED AND INTEGRATED WIRING DIAGRAMS FOR ALL WIRING REQUIRING FIELD INSTALLATIONS BY THE ELECTRICAL CONTRACTOR, AS A SUBCONTRACT TO THE MECHANICAL CONTRACTOR.

C. SPECIFIC WIRING DIAGRAMS OF FACTORY INSTALLED EQUIPMENT WIRING SHALL ALSO BE SUBMITTED FOR APPROVAL AND FURNISHED TO THE ELECTRICAL CONTRACTOR FOR HIS INSTALLATION REQUIREMENTS AND OTHER USES.

18. MOTOR STARTERS AND CONTROL DEVICES

A. FURNISH TO THE ELECTRICAL CONTRACTOR WHO SHALL ERECT AND WIRE SUITABLE STARTING AND CONTROL EQUIPMENT FOR ALL MOTORS.

B. MOTOR STARTERS SHALL BE CUTLER HAMMER, WESTINGHOUSE OR ALLEN BRADLEY MANUFACTURER, SUITABLE FOR WALL OR ANGLE IRON FRAME MOUNTING.

C. GENERAL NOTES:

1) ALL STARTERS FOR MOTORS LESS THAN 1/2 HP SHALL BE 120 VOLT, SINGLE PHASE, 60 CYCLE, A.C. SERVICE. MANUAL STARTERS WITH OVERLOAD PROTECTION AND LOCKOUT TYPE DISCONNECT SWITCH OR BREAKER MAY BE USED TO CONTROL SUCH MOTORS, EXCEPT WHERE INTERLOCKS OR AUTOMATIC CONTROLS ARE REQUIRED. IN SUCH CASES, MAGNETIC ACROSS- THE-LINE STARTERS SHALL BE FURNISHED.

2) ALL COILS, CORES, RESISTANCE, INSULATION CONTACTS, TRIPPERS, ETC., OF STARTERS AND RELAYS SHALL BE OF THE APPROVED TYPE. ALL PARTS SUBJECT TO WEAR, ARCING, ETC., SHALL BE RENEWABLE.

3) ALL WIRING, STARTERS, SWITCHES, ETC., SHALL BE IN FULL ACCORDANCE WITH ALL LOCAL AND INSURANCE UNDERWRITERS' CODE REQUIREMENTS.

4) FURNISH DETAILED COMPOSITE WIRING DIAGRAMS FOR THOSE INSTALLING ELECTRICAL WORK, AND FURNISH SUCH OTHER INFORMATION NECESSARY TO INSURE THE PROPER CONNECTION, OPERATION AND CONTROL OF MOTORIZED EQUIPMENT, INCLUDING INTERLOCKS, AUTOMATIC OR SAFETY CONTROLS AND AUXILIARY CIRCUITS.

19. VIBRATION ISOLATION SYSTEMS

A. ALL ROTATING, REVOLVING OR RECIPROCATING EQUIPMENT, INCLUDING PIPING CONNECTIONS TO THIS EQUIPMENT SHALL BE FURNISHED WITH SPRING-TYPE VIBRATION ISOLATORS, TO PREVENT THE TRANSMISSION OF OBJECTIONAL NOISES, SOUND OR VIBRATIONS TO THE OCCUPIED SPACES AND TO THE BUILDING STRUCTURES. STAINLESS STEEL BRAIDED FLEXIBLE HOSE CONNECTORS SHALL BE INSTALLED AT INLET AND DISCHARGE CONNECTIONS TO ALL PUMPS. SPRING-TYPE HANGERS SHALL BE PROVIDED FOR PIPING FOR A DISTANCE OF 20 FEET UP AND DOWNSTREAM OF ALL SUCH EQUIPMENT.

B. VIBRATION ISOLATORS FOR FLOOR OR CEILING SUPPORTED EQUIPMENT SHALL HAVE A MAXIMUM LATERAL MOTION UNDER EQUIPMENT START-UP OR SHUT-DOWN CONDITIONS OF 1/4". MOTIONS IN EXCESS SHALL BE RESTRAINED BY SPRING TYPE MOUNTINGS.

C. CEILING-HUNG FANS AND EQUIPMENT:

1) PROVIDE SPRING HANGER ROD ISOLATORS. STEEL COMPRESSION SPRING AND NEOPRENE SOUND PAD WITHIN A STEEL RETAINER BOX. SIMILAR TO MASON INDUSTRIES, INC., TYPE SLF, SLR, OR PCHS.

2) ONE (1) IN. MINIMUM STATIC DEFLECTION, 1/2 IN. MINIMUM RESERVE DEFLECTION, FACTORY-PRELOADED TO 75% OF A RATED LOAD.

3) PROVIDE SUPPLEMENTAL STEEL AS REQUIRED WHERE EQUIPMENT OR STRUCTURE CANNOT SUPPORT POINT LOADS.

D. FLOOR MOUNTED EQUIPMENT HAVING INTERNAL ISOLATION:

1) PROVIDE 3/4 IN. THICK NEOPRENE ACOUSTICAL BASE PADS OF WAFFLE CONSTRUCTION. SIMILAR TO MASON INDUSTRIES INC. TYPE SUPER W PADS.

2) 50 PSI MAXIMUM LOADING. PROVIDE STEEL BEARING PLATE TO DISTRIBUTE LOAD WHERE REQUIRED.

3) ALL FLOOR MOUNTED EQUIPMENT SHALL BE ERECTED ON 4" STEEL REINFORCED CONCRETE PADS OVER THE COMPLETE FLOOR AREA OF THE EQUIPMENT, UNLESS INDICATED TO THE CONTRARY ON THE DRAWINGS.

4) VIBRATION ISOLATOR SHALL BE PROVIDED BY EITHER OF THE FOLLOWING MANUFACTURERS:

A) MASON INDUSTRIES
B) VIBRATION ELIMINATOR CO.
C) CONSOLIDATED KINETICS CO.

20. PIPING INSTALLATIONS AND REQUIREMENTS

A. FURNISH AND INSTALL PIPING WHICH IS SCHEMATICALLY INDICATED AND SIZED ON DRAWINGS. PIPING TO BE INSTALLED TO MEET SPECIFIED HEADROOM OR FIELD CONDITIONS. PIPING SHALL CONFORM TO LATEST ASME CODES FOR PRESSURE PIPING.

B. PROVIDE PROPER PROVISION FOR EXPANSION AND CONTRACTION IN PIPE WORK TO PREVENT UNDUE STRAINS ON PIPING OR APPARATUS CONNECTED.

C. FURNISH AND INSTALL PIPING HANGERS, SUPPORTS, ANCHORS AND GUIDES HAVING A BUILT-IN SAFETY FACTOR OF FIVE (5); IN CONFORMANCE TO THE LATEST ANSI B31.9 CODE FOR PRESSURE PIPING AND MSS STANDARD PRACTICE SP-58 AND SP-69. ALL HANGER SPECIFICATIONS SHALL BE FURNISHED WITH ZINC CHROMATE PRIME PAINT FINISH.

D. SUPPORT HANGERS FROM BUILDING STEEL FRAMING WITH APPROVED TYPE CLAMP INSERT. PROVIDE ADDITIONAL STEEL SUPPORTS BETWEEN EXISTING FRAMING MEMBERS AS REQUIRED. ALL PIPE HANGING RODS, INSERTS AND CLAMPS SHALL BE U.L. APPROVED FOR THEIR RESPECTIVE USES. DO NOT HANG PIPING FROM OTHER PIPING.

E. PROVIDE PIPE HANGERS WITH SHIELDS ON ALL INSULATED PIPING.

F. UNLESS OTHERWISE SPECIFICALLY APPROVED, HANGER SIZE AND SPACING SHALL BE AS FOLLOWS:

COPPER TUBING

PIPE SIZES	MAXIMUM HANGER SPACING	MINIMUM ROD SIZES
1/2" TO 1-1/4"	6 FT. O.C.	3/8"

THE ABOVE HANGER SPACINGS APPLY TO STRAIGHT RUNS OF PIPE ONLY. AT POINTS WHERE VALVES, SPECIALTIES OR BRANCH CONNECTIONS ARE LOCATED, ADDITIONAL HANGERS OR SUPPORTS SHALL BE USED TO PROPERLY SUPPORT THE LOAD.

21. SLEEVES AND ESCUTCHEONS FOR PIPING

A. PIPE PENETRATIONS THROUGH MASONRY/CONCRETE WALLS, FLOORS, ROOF CONSTRUCTION AND FRAMED PARTITIONS SHALL HAVE A TRIM OPENING CUT NOT GREATER THAN NECESSARY FOR THE INSTALLATION OF A SLEEVE SECURED THEREIN. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE SHALL NOT EXCEED ONE-HALF INCH.

B. SLEEVES SHALL BE FLUSH WITH THE FINISHED WALL OR PARTITION SURFACE.

C. ANNULAR SPACES BETWEEN PIPING AND SLEEVES OR CORE DRILLED FLOOR OPENINGS SHALL BE PACKED WITH MINERAL WOOL AND SEALED TO RETAIN THE FIRE INTEGRITY OF THE WALLS, PARTITIONS AND FLOORS WITH A NON-HARDENING COMPOUND SIMILAR TO DUXSEAL AS MANUFACTURED BY THE J.M. CLIPPER CORPORATION.

D. SLEEVES FOR PIPING THROUGH MASONRY WALL SHALL BE SCHEDULE 40, STANDARD GALVANIZED STEEL PIPE; IN FRAMED PARTITIONS SHALL BE 18 GAUGE SHEET METAL. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE SHALL NOT EXCEED ONE-HALF (1/2) INCH.THE SLEEVE SHALL BE FLUSH WITH THE FINISHED WALL SURFACES.

E. PIPING IN EXPOSED AREAS, PASSING THROUGH WALLS, FLOORS OR CEILINGS SHALL BE FITTED WITH CHROMIUM-PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS.

22. PIPING MATERIALS AND FITTINGS

A. PIPING MATERIALS AND FITTINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

SERVICE	PIPING MATERIAL	FITTINGS
REFRIGERANT	HARD TEMPER COPPER TYPE "L"	WROUGHT COPPER BRAZED
DOMESTIC COLD	85% RED BRASS	BRASS SCREWED
CONDENSATE DRAIN LINES	HARD TEMPER COPPER TYPE "L" ASTM B-88	WROUGHT COPPER SOLDER ANSI B16.18

23. REFRIGERANT PIPING

A. ALL REFRIGERANT TUBING SHALL BE TYPE AC&R CLEANED, DEHYDRATED AND CAPPED COPPER. TUBE SIZES SHOWN ARE OUTSIDE DIAMETERS. ALL FITTINGS ARE TO BE WROUGHT COPPER TYPE WHICH MEET ANSI B16.22 SPECIFICATIONS AND COMPLY WITH ASTM TEST PROCEDURES. ALL JOINTS ARE TO BE BRAZED WITH SILFOS-5 OR EQUIVALENT. AFTER PIPING IS COMPLETED, SYSTEM IS TO BE PRESSURE TESTED FOR LEAKS. HIGH SIDE REFRIGERANT LINES ARE TO BE NITROGEN TESTED TO 300 PSIG AND LOW SIDE TO 150 PSIG. TEST PRESSURES MUST HOLD FOR 30 MINUTES. ALL INTERCONNECTING REFRIGERANT LINES ARE TO BE DEHYDRATED AND EVACUATED TO 500 MICRONS, VACUUM PUMP TO BE SHUT DOWN AND VACUUM LEVEL TO BE MONITORED FOR A PERIOD OF SIX HOURS. IF VACUUM LEVEL RISE EXCEEDS THE LIMIT, THE SYSTEM SHOULD BE CHECKED FOR SMALL LEAKS, REPAIRED AND RETESTED.

B. DURING BRAZING OPERATIONS, FLOW AN INERT GAS SUCH AS NITROGEN THROUGH THE REFRIGERATION PIPING SYSTEM TO PREVENT SCALING AND CONTAMINATION OF INTERNAL PIPING WALLS.

C. TRAPS ARE TO BE PROVIDED AT THE BASE OF ALL SUCTION GAS RISERS TO INSURE THE POSITIVE RETURN OF OIL TO THE COMPRESSOR. OIL TRAPS SHALL BE CONSTRUCTED AS SHALLOW AS POSSIBLE TO MINIMIZE THE TRAPPED VOLUME TO AVOID THE CREATION OF LARGE SLUGS OF LIQUID.

D. INVERTED TRAPS SHALL BE INSTALLED AT THE TOP OF EACH SUCTION OR HOT GAS RISER TO CHECK THE BACKFLOW OF OIL DOWN THE RISER FROM THE HORIZONTAL RUN DOWNSTREAM.

E. WHENEVER THE LIFT OF A RISER WILL EXCEED APPROXIMATELY 20 FEET, PROVIDE INTERMEDIATE TRAPS TO ALLOW THE OIL TO TRAVEL UP IN STEPS.

F. ALL REFRIGERANT LINES EXPOSED TO OUTDOOR ELEMENTS AND ALL SUCTION LINES THROUGHOUT SHALL BE WRAPPED IN 1" THICK AMRMAFLEX INSULATION. ALL JOINTS SHALL BE MITERED AND TAPED TO ENSURE PROPER VAPOR SEAL. ALL SEAMS ARE TO BE GLUED WITH MANUFACTURER'S RECOMMENDED ADHESIVE.

G. PROVIDE ADEQUATELY SIZED REFRIGERANT LINE FILTER DRIERS AS REQUIRED.

H. REFRIGERANT PIPING TO BE INSTALLED AND SIZED IN ACCORDANCE TO EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUBMIT LAYOUT OF REFRIGERANT PIPING TO BE INSTALLED IN FIELD. INDICATE ACTUAL ROUTE, LENGTHS, ELBOWS, DEVICES AND EQUIPMENT FOR VERIFICATION OF PIPE SIZE AND INSTALLATION.

24. CONDENSATE DRAIN PUMPS

A. AT EACH NEW AC UNIT, THIS CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) ASPEN MINI AQUA CONDENSATE PUMP, MODEL NO. ASP-MA115 WITH INTEGRAL FLOAT ALARM SWITCH AND INTEGRAL RECEIVER. CAPACITY SHALL BE 1.5 GPH AT 10 FT. OF HEAD. ELECTRICAL CHARACTERISTICS – 115 V/1 PHASE, 15 WATTS.

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH THE 2014 OF THE NEW YORK CITY BUILDING CODE ARE REQUIRED TO BE PREFORMED.

THIS CONTRACTOR SHALL FILE AND OBTAIN ALL EQUIPMENT USE PERMITS FOR ANY AND ALL EQUIPMENT SPECIFIED ON THESE PLANS REQUIRING SUCH.

Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
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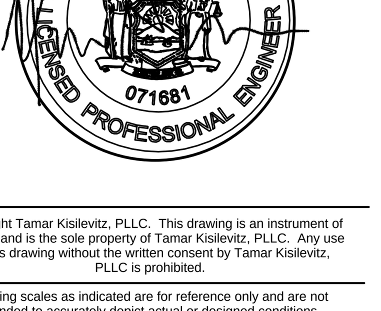

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
MECHANICAL SPECIFICATIONS

DWG # M-206.00

Signature:	Date: 11.13.13
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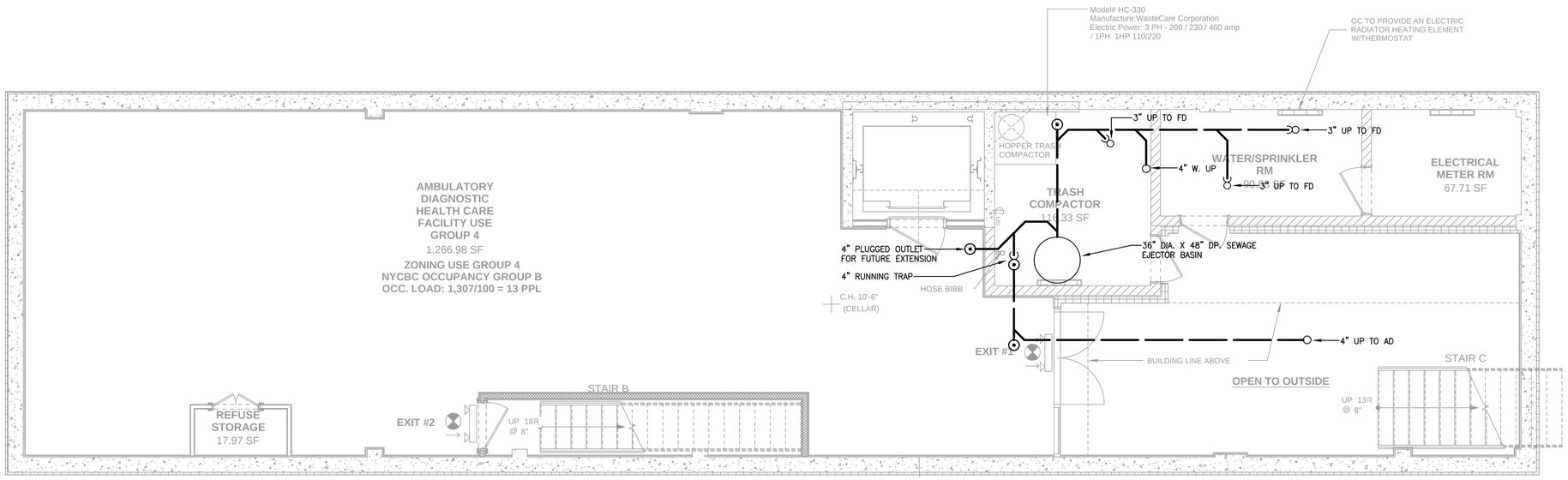
	Job # 13221
	Checked: TSF
	SHT. NO. 11 OF 11



1
P100

PLUMBING UNDERGROUND PIPING PLAN

SCALE:1/4" = 1'-0"

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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THIS CONTRACTOR SHALL PERFORM ALL CONTROLLED INSPECTIONS IN ACCORDANCE WITH ARTICLE [A-26-106.3] 27-132 AND [C-26-1301.2] 27-779 OF THE NEW YORK CITY BUILDING CODE.

Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
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STATE OF NEW YORK
NICHOLAS P. TUCCI
071881
LICENSED PROFESSIONAL ENGINEER

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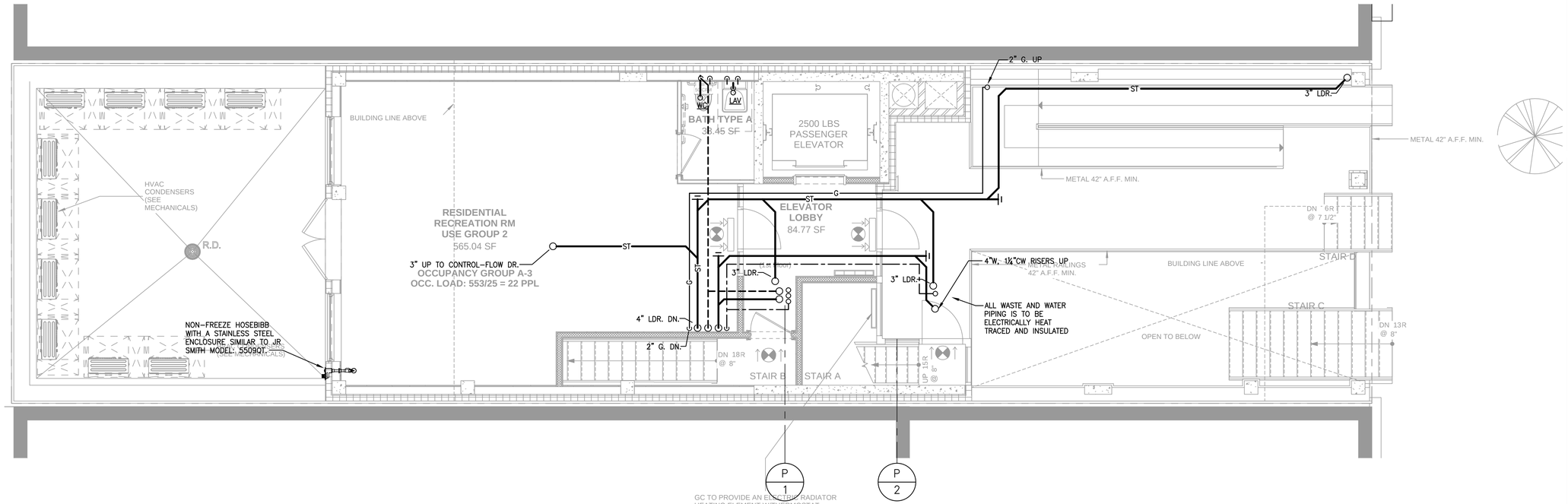
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING
UNDERGROUND PIPING PLAN

DWG #
P-100.00

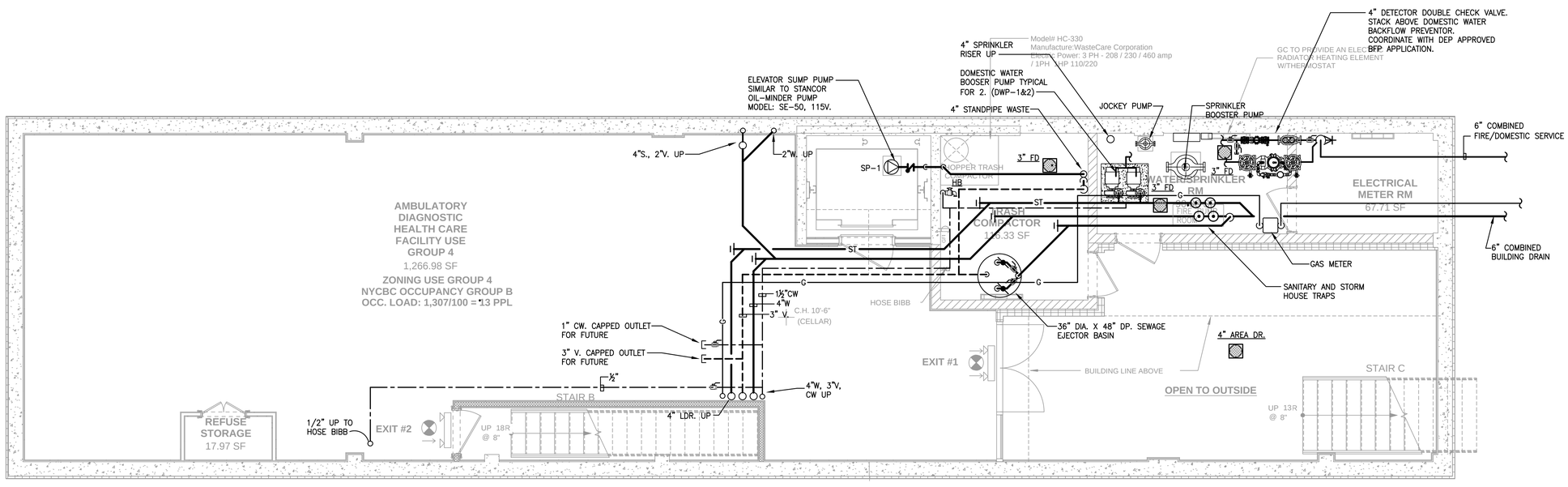
Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 01 10



GC TO PROVIDE AN ELECTRIC RADIATOR HEATING ELEMENT W/THERMOSTAT

2 / P101 PLUMBING FIRST FLOOR PLAN

SCALE:1/4" = 1'-0"



1 / P101 PLUMBING CELLAR PLAN

SCALE:1/4" = 1'-0"

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THIS CONTRACTOR SHALL PERFORM ALL CONTROLLED INSPECTIONS IN ACCORDANCE WITH ARTICLE [A-26-106.3] 27-132 AND [C-26-1301.2] 27-779 OF THE NEW YORK CITY BUILDING CODE.

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DOB APPLICATION NO.
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING
CELLAR AND 1ST FL PLANS

DWG #
P-101.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
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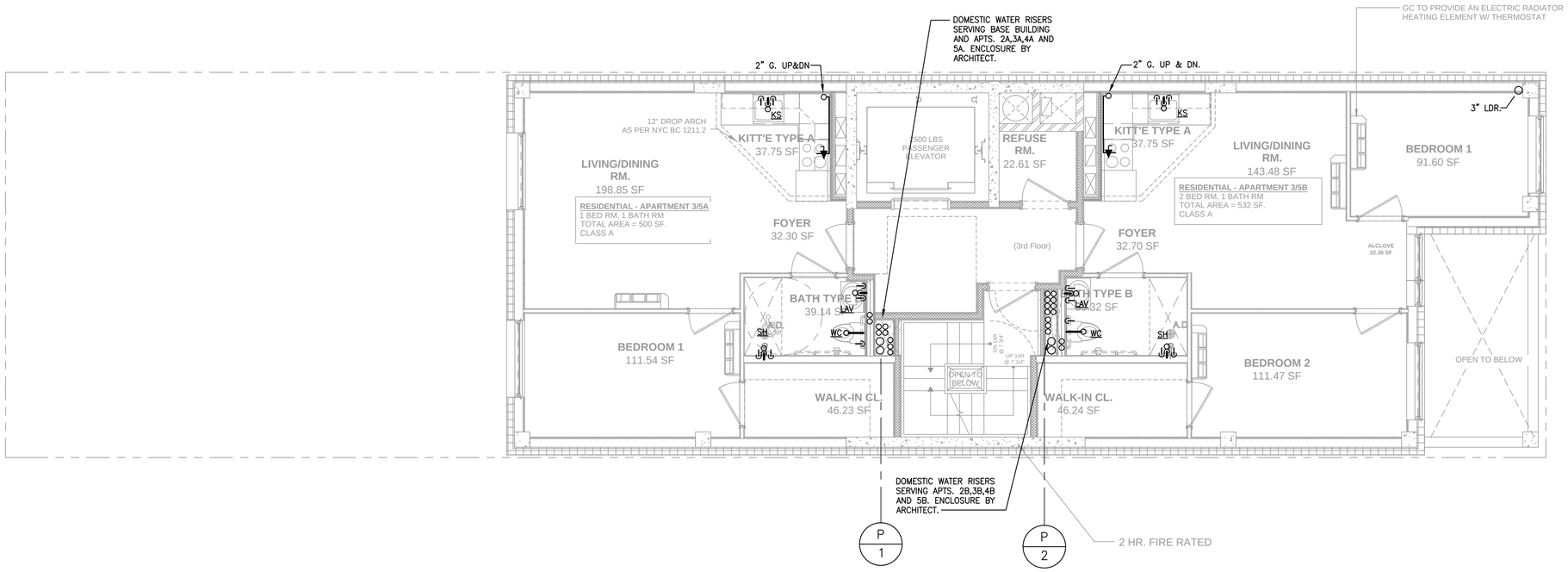
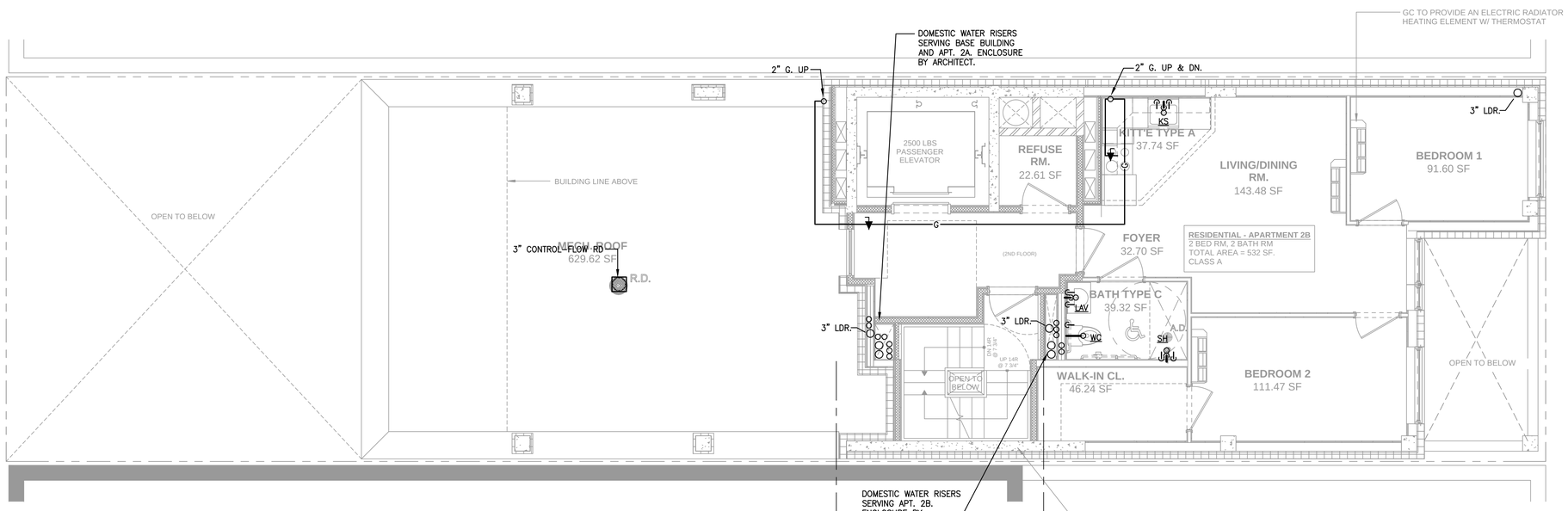
	Job # 13221
	Checked: TSF
	SHT. NO. 02 10



2 / P102 PLUMBING THIRD TO FIFTH FLOOR PLAN (TYPICAL)

SCALE:1/4" = 1'-0"



1 / P102 PLUMBING SECOND FLOOR PLAN

SCALE:1/4" = 1'-0"

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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Revision No.	Date	Remarks
01	11.15.13	Issued

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PH: (908)688-6682 Fax: (908)688-6687

DOB APPLICATION NO.
****

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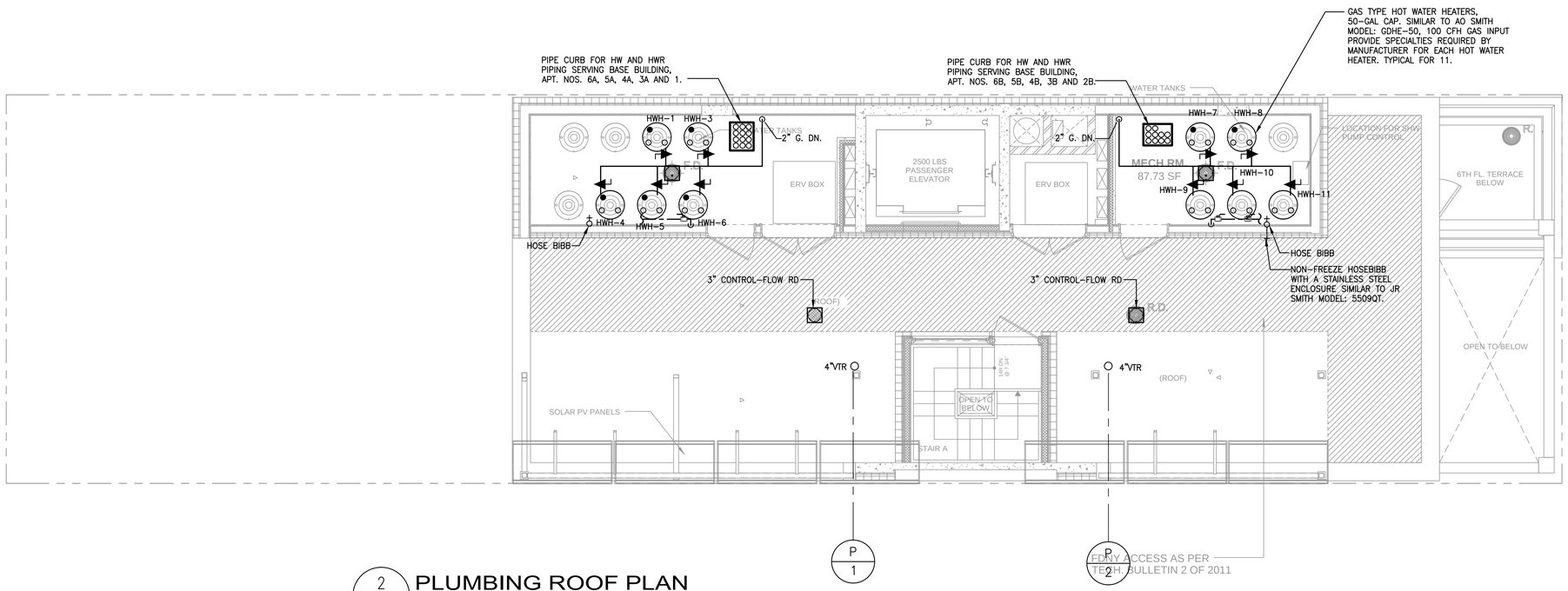
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING
2ND, 3RD TO 5TH (TYPICAL)
FLOOR PLANS

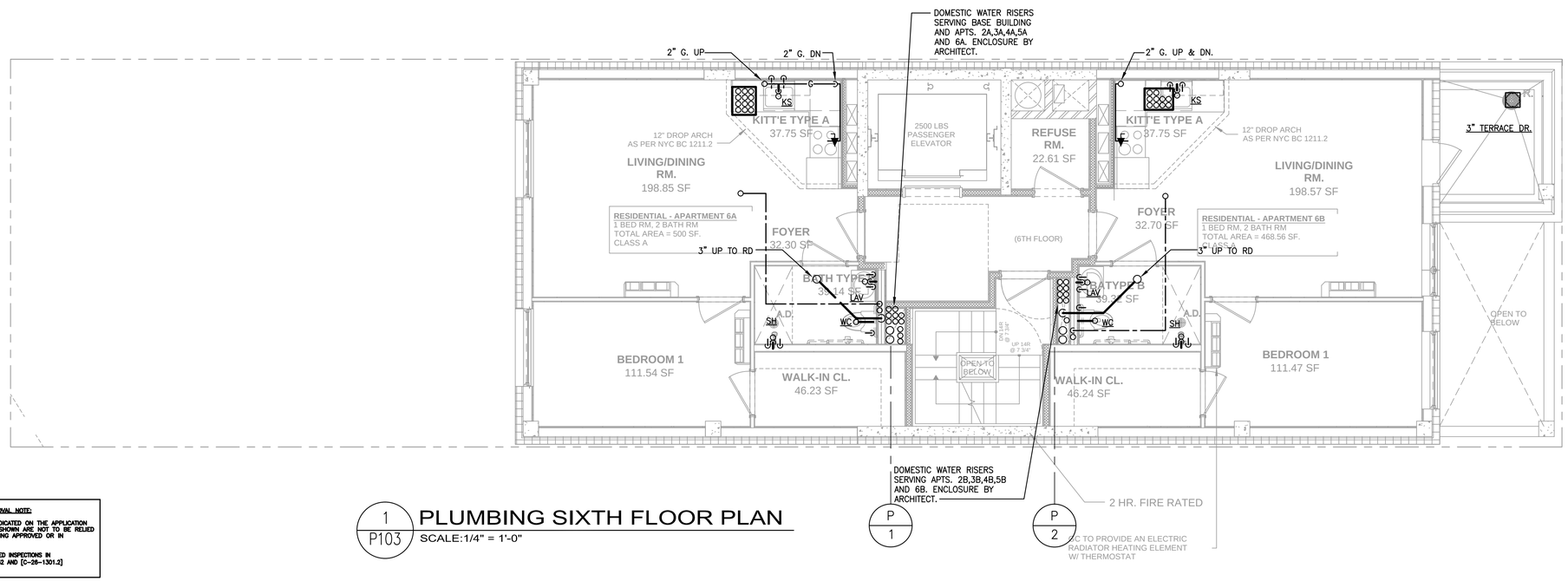
DWG #
P-102.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 03 10



2 / P103 PLUMBING ROOF PLAN

SCALE:1/4" = 1'-0"



1 / P103 PLUMBING SIXTH FLOOR PLAN

SCALE:1/4" = 1'-0"

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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DOB APPLICATION NO.
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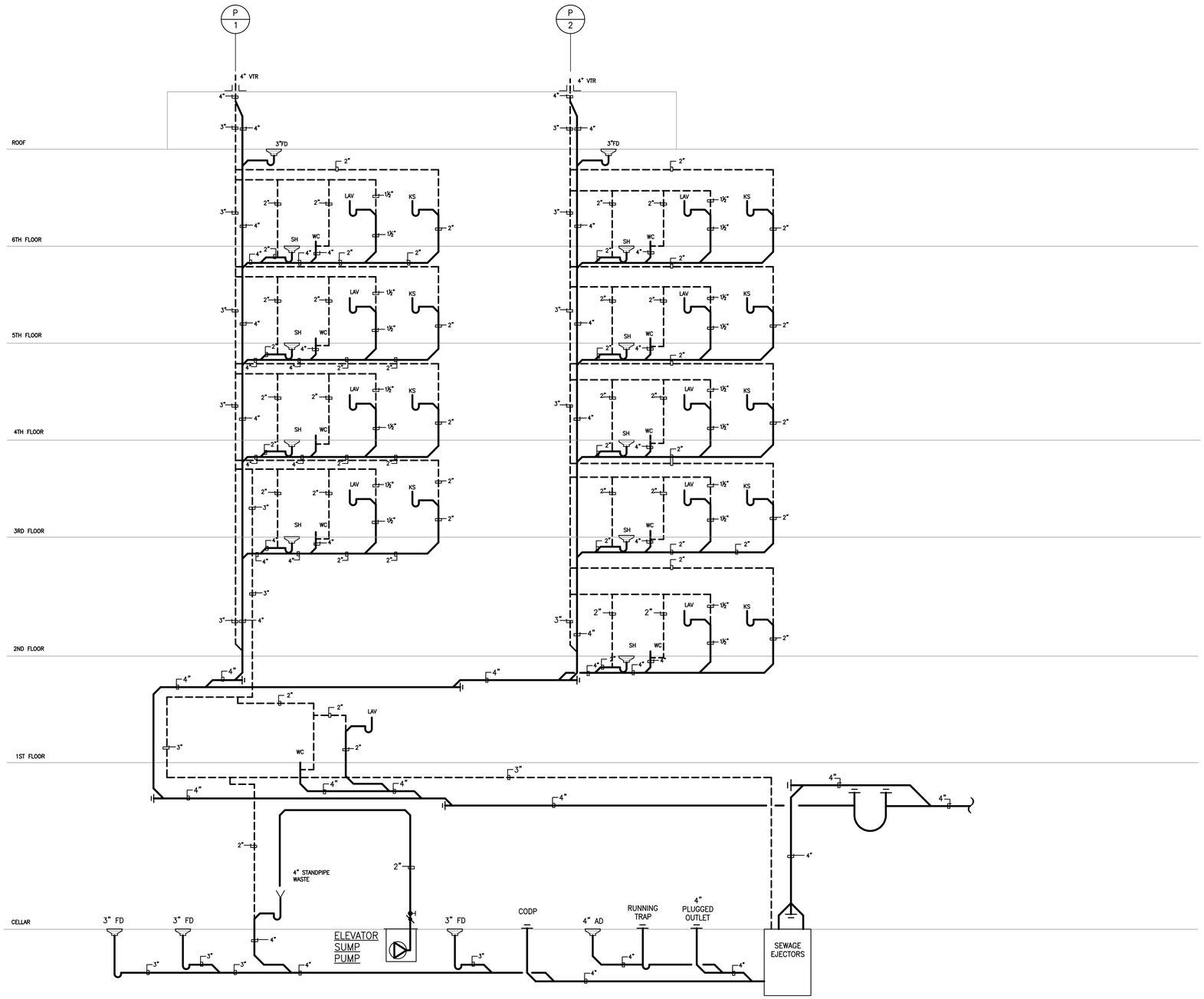
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING
ROOF AND 6TH FL PLANS

DWG #
P-103.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job # 13221
	Checked: TSF
	SHT. NO. 04 10



SANITARY RISER DIAGRAM I

N.T.S.

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Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
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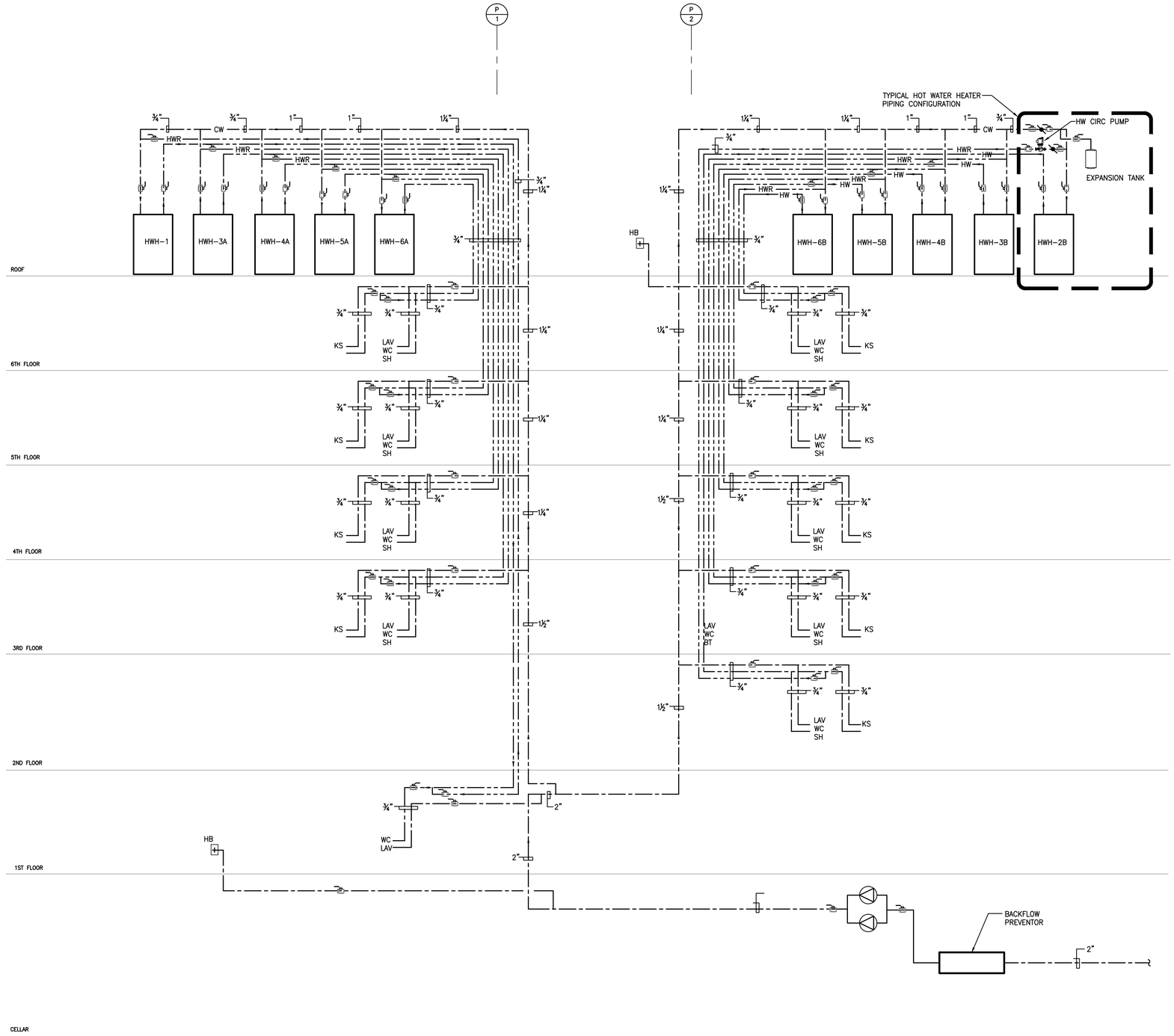
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING
SANITARY RISER DIAGRAM

DWG #
P-104.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 05 10



DOMESTIC WATER RISER DIAGRAM

N.T.S.

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Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
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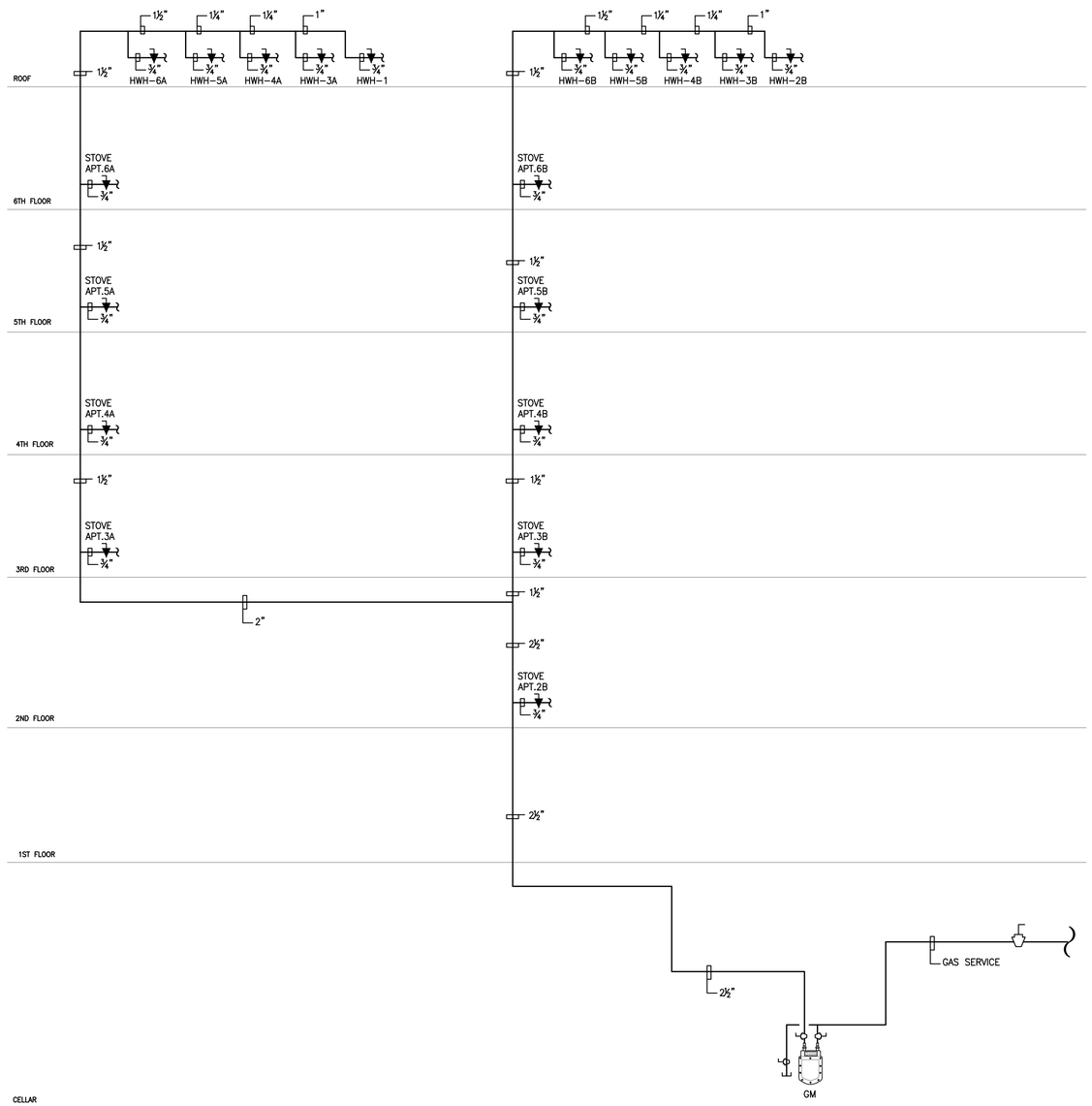
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING
DOMESTIC WATER
RISER DIAGRAM

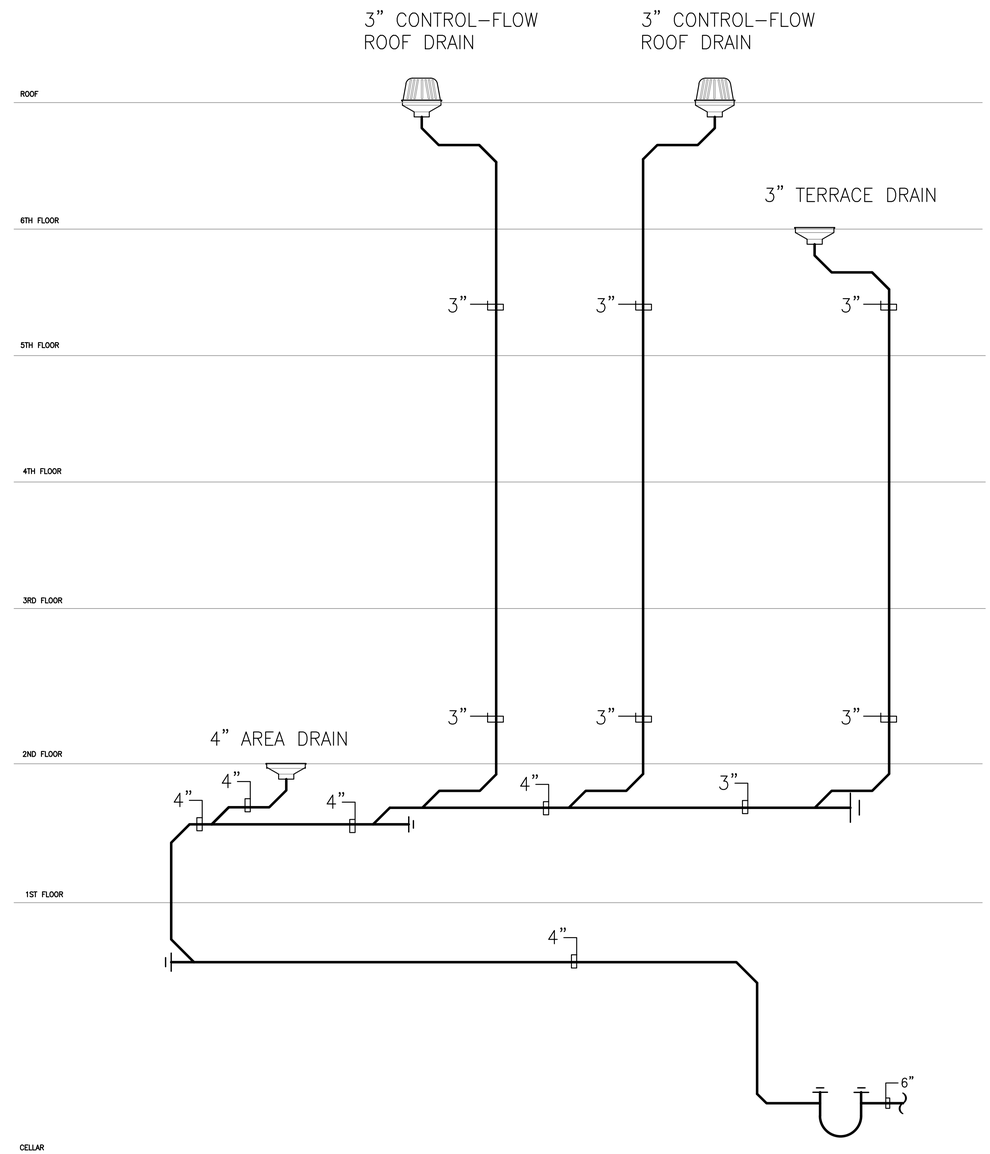
DWG.#
P-105.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job # 13221
	Checked: TSF
	SHT. NO. 06 10



GAS RISER DIAGRAM

N.T.S.



STORM RISER DIAGRAM

N.T.S.

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Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
****

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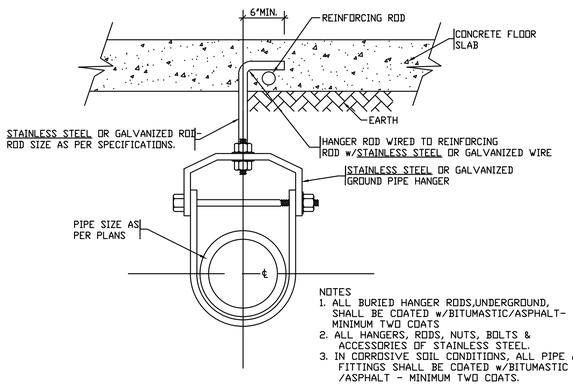
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING
GAS AND STORM
RISER DIAGRAM

DWG #
P-106.00

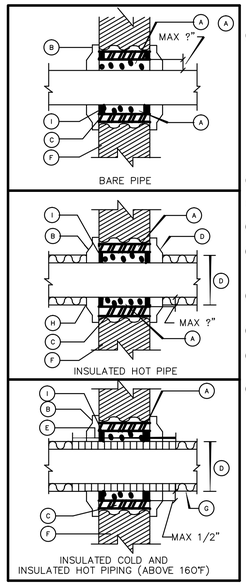
Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 07 10



NOTES
1. ALL BURIED HANGER RODS,UNDERGROUND, SHALL BE COATED w/BITUMASTIC/ASPHALT- MINIMUM TWO COATS
2. ALL HANGERS, RODS, NUTS, BOLTS & ACCESSORIES OF STAINLESS STEEL.
3. IN CORROSIVE SOIL CONDITIONS, ALL PIPE AND FITTINGS SHALL BE COATED w/BITUMASTIC /ASPHALT - MINIMUM TWO COATS.

PIPE SUPPORT FOR UNDERGROUND DRAINAGE PIPING

NOT TO SCALE



(A) ALL SPACES PACKED FULL DEPTH WITH MINERAL WOOL OR OTHER EQUALLY APPROVED FIRE RESISTIVE MATERIAL (ASBESTOS OR FIBERGLASS SHALL NOT BE USED)

FIRE RESISTANT FOAM SEALANT CHASE FOAM CTC P2-855 (NYC MEA#58-79 M#1&11 MAY BE USED. INSTALLATION AS PER MANUFACTURER.

(B) ESCUTCHEON BOTH SIDES

(C) SLEEVE

(D) DIAMETER OF INSULATED PIPE

(E) ANHYDROUS CALCIUM SILICATE INSULATION THRU SLEEVE

(F) FIRE RATED PARTITION WALL OR FLOOR

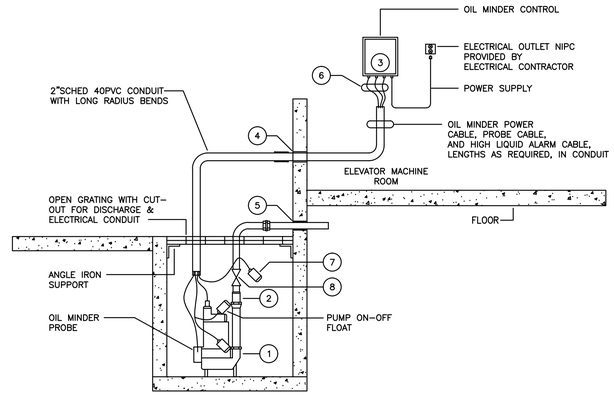
(G) FIBERGLASS INSULATION

(H) TERMINATE INSULATION AT ESCUTCHEON

(I) 1/2" DEPTH FIRE STOP FINISH SEALANT

DETAIL OF PIPING PIERCING FIRE RATED PARTITIONS, WALLS AND FLOORS

NO SCALE



1. ● STANCOR MODEL SE-50 (SMP-E1) SUBMERSIBLE EFFLUENT PUMP, 0.5HP, 115 VOLT, 3600 RPM, 5GPM FLOW @ 28'HEAD, 2"DISCHARGE CONNECTION.
2. STANCOR CHECK VALVE
3. STANCOR OIL MINDER 115V, 1 PHASE CONTROL SYSTEM WITH OPTIONAL BUILT-IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID CONDITION. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION.
4. WATERTIGHT SLEEVE
5. ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
6. OIL MINDER POWER CABLE, PROBE CABLE, AND HIGH LIQUID ALARM CABLE.
7. HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
8. GATE VALVE

ITEMS 1,2,3,6 AND 7 PROVIDED BY STANCOR

ELEVATOR SUMP PUMP DETAIL

NOT TO SCALE

KEY OF SYMBOLS

NOTE: THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

- (S)(W) — SOIL OR WASTE PIPING (S) (W)
- (S)(W) — SOIL OR WASTE PIPING BELOW GROUND
- VENT PIPING
- EXISTING CW PIPING TO BE REMOVED
- EXISTING CW PIPING TO REMAIN
- COLD WATER PIPING (C.W.)
- HOT WATER PIPING (H.W.)
- VACUUM BREAKER (V.B.)
- "P" TRAP FOR LAV., SINK, ETC.
- C — PIPE DOWN
- O — PIPE UP
- BALL VALVE
- CLEAN OUT

CLG.	CEILING
C.O.	CLEANOUT
F.D.	FLOOR DRAIN
FL.	FLOOR
LAV.	LAVATORY
M.S.	MOP SINK
SK.	SINK
S.S.	SERVICE SINK
W.C.	WATER CLOSET
	CONNECT TO EXISTING

PUMPS

PUMP CO	ABBREV.
FLYGT	F
PEERLESS PUMP	P
BELL & GOSSETT	BG

◓ DESIGNATION	NO. REQUIRED	G.P.M. / EA UNIT	T.D.H.(FT)	MODEL NO.	MECH. SEAL	STAGES	VERT. SPLIT	END SUCTION	WORKING PRESS.(PSIG.)	H.P.	R.P.M.	VOLTS	PHASE	CYCLE	MANUAL CONTROL	STARTING STEPS	AUTO CONTROL	PILOT LIGHT	PRESSURE GAUGE RANGE	ALL BRONZE	EMERGENCY POWER	SUBMERSIBLE PUMPS	CUSHION TANK	SEE NOTES BELOW
ELEVATOR PIT SUMP PUMP	1	5	28'	F SE-50	◓					1/2	3600	115	1	60			◓	◓						
SEWAGE EJECTORS	2	50	19'	G 3SD	◓					1 1/2	3500	208	3	60			◓	◓				◓		*
DOMESTIC BOOSTER PUMP	1	50	115'	P C 610AM	◓			◓		3	3500	208	3	60			◓	◓					◓	
HOT WATER CIRCULATING PUMP	10	5	8'	BG NBF-10S/LW	◓					52 W.	2800	115	1	60			◓			◓				**

* PROVIDE WITH FIBERGLASS BASIN, COVER PLATE, FLOATS AND CONTROL PANEL.

** PROVIDE WITH B&G MODEL AQS-3/4 AQUASTAT KIT.

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DOB APPLICATION NO.
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STATE OF NEW YORK · NICHOLAS P. TUCCI · 071681 · LICENSED PROFESSIONAL ENGINEER

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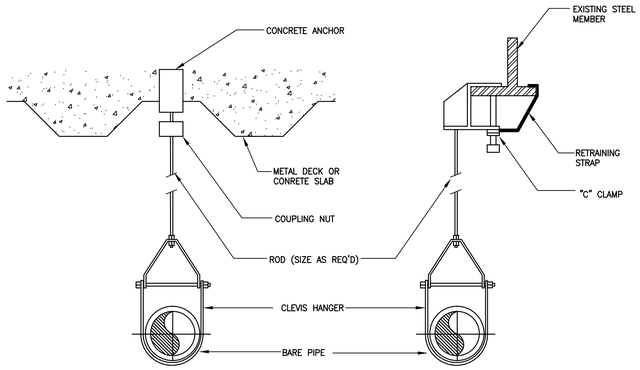
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING
SYMBOL LIST, NOTES
AND DETAILS

DWG.#
P-201.00

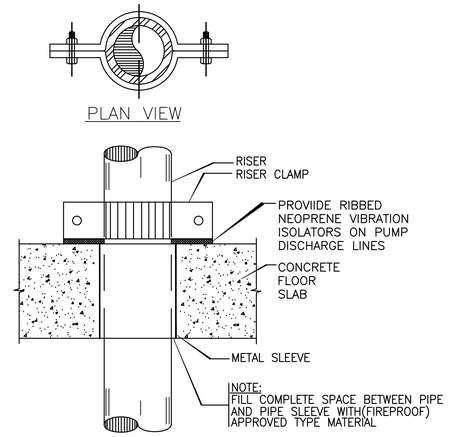
Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job # 13221
	Checked: TSF
	SHT. NO. 08 10



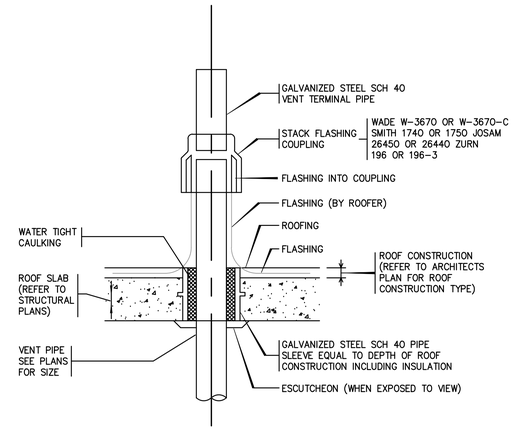
NOTE:
CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1", GENERAL PURPOSE HANGERS MAY BE USED ON 1" PIPING ONLY.

ROD SCHEDULE	
PIPE SIZE	ROD SIZE
1/2"	3/8"
3/4"	3/8"
1"	3/8"
1 1/4"	3/8"
1 1/2"	3/8"
2"	3/8"
2 1/2"	3/8"
3"	3/8"
4"	1/2"
5"	1/2"
6"	1/2"

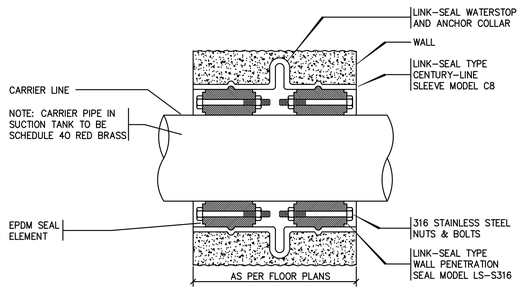
HANGER DETAIL
NOT TO SCALE



TYPICAL RISER SUPPORT DETAIL
NO SCALE



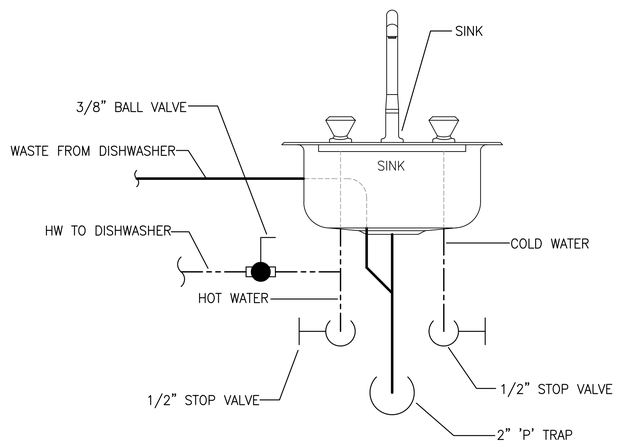
VENT THRU ROOF – FLASHING
NO SCALE



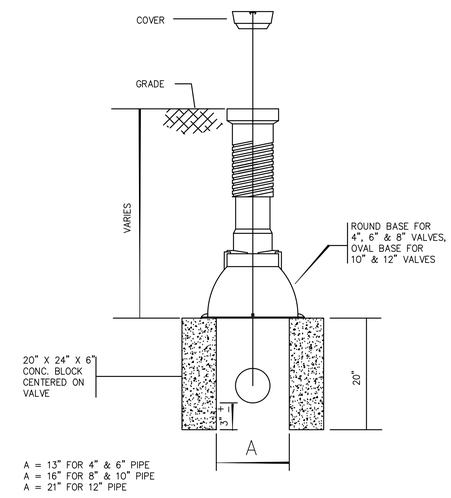
NOTE: WATER STOP AND SEAL ELEMENT SIZE TO BE AS PER MANUFACTURERS RECOMMENDATIONS, AND MATERIAL AND PIPE SIZE.

SCHEMATIC DETAIL WATERTIGHT SLEEVES THRU FOUNDATION WALLS
NO SCALE

MANUFACTURED BY CENTURY-LINE SLEEVE & LINK SEAL
PIPE-THRU-WALL PENETRATION ASSEMBLY DETAIL
THUNDERLINE CORPORATION, BELLEVILLE, MI 48111



TYPICAL KITCHEN SINK/DISHWASHER CONNECTION DETAIL
NO SCALE



VALVE BOX DETAIL
NO SCALE

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THIS CONTRACTOR SHALL PERFORM ALL CONTROLLED INSPECTIONS IN ACCORDANCE WITH ARTICLE [A-26-106.3] 27-132 AND [C-26-1301.2] 27-779 OF THE NEW YORK CITY BUILDING CODE.

Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
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Drawing scales as indicated are for reference only and are not intended to accurately depict actual or designed conditions. Written dimensions shall govern.

Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING
SYMBOL LIST, NOTES
DETAILS

DWG #
P-202.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job # 13221
	Checked: TSF
	SHT. NO. 09 10

PLUMBING SPECIFICATIONS

1. GENERAL
   A. THE APPLICABLE PROVISIONS OF THE GENERAL CONSTRUCTION SPECIFICATIONS SHALL BE ADHERED TO AND SHALL BE CONSIDERED A PART OF THESE SPECIFICATIONS.

   B. THE CONTRACTOR SHALL ADHERE TO ALL BUILDING RULES AND REGULATIONS, BUILDING STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS.

   C. EXAMINE THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF ALL OTHER TRADES AND FIELD VERIFY THE LOCATION OF ALL EXISTING EQUIPMENT THAT AFFECTS THIS WORK.

   D. REPAIR OR REPLACE ALL EXISTING PIPING AND FIXTURES DAMAGED AS A RESULT OF PERFORMING THE WORK OF THIS CONTRACT. THE MATERIALS SHALL MATCH THE EXISTING AS CLOSE AS POSSIBLE.

   E. INSTALL ALL PLUMBING WORK IN STRICT ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE AND CONFORM TO THE REQUIREMENTS ALL OTHER AUTHORITIES HAVING JURISDICTION.

   F. OBTAIN ALL NECESSARY PERMITS AND APPROVALS THAT ARE REQUIRED TO PERFORM THIS WORK.

2. NOTICE TO BIDDERS
   A. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A PRICE FOR THE MATERIAL AND LABOR PROVISIONS.

   B. WHEN CONFLICTS OCCUR BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.

   C. THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR AND MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.

   D. THE CONTRACTOR SHALL COORDINATE HIS WORK AND ADJUST SAME, AS REQUIRED, WITH THAT OF OTHER CONTRACTORS IN ORDER THAT CONFLICTS IN SPACE LOCATIONS DO NOT OCCUR.

   E. THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH THE WORK OF OTHER TRADES SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.

   F. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK AND ITS COMPLETION, INCLUDING ITS FINAL ACCEPTANCE. ALL DAMAGED OR DEFECTIVE WORK SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

   G. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF ALL PIPING AND EQUIPMENT. THIS CONTRACTOR SHALL FURNISH ALL ADDITIONAL OFFSETS AND FITTINGS THAT MAY BE REQUIRED TO PERFORM THIS WORK.

   H. VISIT AND CAREFULLY EXAMINE THE EXISTING SPACE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT MAY BE ENCOUNTERED. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF SUCH DIFFICULTIES, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

3. OPERATING AND MAINTENANCE INSTRUCTIONS
   A. AFTER FINAL TESTS AND ADJUSTMENTS, FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATION FOR EQUIPMENT INSTALLED.

   B. FURNISH TWO (2) COPIES OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT. ALSO INCLUDE A PARTS LIST AND MAINTENANCE SCHEDULE.

4. SHOP DRAWINGS
   A. PRIOR TO PURCHASING ANY EQUIPMENT OR INSTALLING ANY SYSTEM COMPONENTS, SUBMIT THE FOLLOWING FOR REVIEW AND APPROVAL:

      1) A MINIMUM OF FOUR (4) SETS OF SHOP DRAWINGS INDICATING EXACT PIPING LAYOUT, SIZES, VALVES, EQUIPMENT LOCATIONS AND PIPING ELEVATIONS.

      2) EQUIPMENT SUBMITTALS INDICATING CAPACITIES AND PERFORMANCE DATA.

   B. PRIOR TO INSTALLING OR SUBMITTING FOR APPROVAL ANY PORTION OF THE WORK, COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES. AFFIX INDICATION OF THIS COORDINATION TO EACH SHOP DRAWING SUBMITTED FOR APPROVAL.

   C. USE OF THE CONTRACT DOCUMENTS AS SHOP DRAWINGS WILL NOT BE ACCEPTED.

5. RECORD DRAWINGS
   A. SUPPLY REPRODUCIBLE RECORD DRAWINGS INDICATING AN ACCURATE AND COMPLETE RECORD OF THE WORK AS INSTALLED.

   B. IN ADDITION TO THE REPRODUCIBLE DRAWINGS, PROVIDE AN AUTOCAD FILE FOR ALL WORK IN A DWG FORMAT.

6. TESTING
   A. TEST ALL PLUMBING PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.

   B. PERFORM TESTS ON ALL NEW WORK PRIOR TO CONCEALING SAME AND BEFORE INSULATION IS INSTALLED.

7. CLEANING
   A. AT THE COMPLETION OF THE WORK AND BEFORE FINAL INSPECTION IS MADE, THOROUGHLY CLEAN ALL FIXTURES, APPARATUS, APPURTENANCES, PIPING, BRASS AND CHROME WORK AND LEAVE SAME FREE FROM ALL MARKS, SCRATCHES, STAINS, ETC. REMOVE ALL TOOLS, DEBRIS, ETC., FROM THE PREMISES.

8. CLEANOUTS
   A. PROVIDE CLEANOUTS AT ALL CHANGES IN DIRECTION OF HORIZONTAL DRAINAGE PIPING. ALL CLEANOUT PLUGS ARE TO BE BRASS AND BE LUBRICATED WITH GRAPHITE BEFORE INSTALLATION.

   B. CLEANOUT DECK PLATES SHALL HAVE A SCORIATED NICKEL BRONZE TOP IN FINISHED AREAS AND A SCORIATED BRONZE TOP IN UNFINISHED AREAS. THE TOPS SHALL BE COMPATIBLE WITH THE SURROUNDING FINISHES.

9. PIPING AND FITTINGS
   A. CONFORM TO THE LATEST ASTM AND/OR FS STANDARDS.

   B. THE BUILDING STANDARDS SHALL TAKE PRECEDENCE OVER THESE SPECIFICATIONS.

   C. SOIL, WASTE AND STORM PIPING: NO-HUB STANDARD WEIGHT CAST IRON SOIL PIPE AND FITTINGS WITH CISPI STAINLESS STEEL CLAMPS OR SCHEDULE 40 GALVANIZED STEEL SCREW PIPE WITH GALVANIZED CAST IRON RECESSED PATTERN DRAINAGE FITTINGS ABOVE GROUND; SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS WITH GASKETED JOINTS FOR BURIED PIPING WITHIN THE BUILDING: EXTRA HEAVY CAST IRON SOIL PIPE AND FITTINGS WITH LEAD AND OAKUM JOINTS FOR BURIED PIPING OUTSIDE THE BUILDING.

   D. VENT PIPING: NO-HUB STANDARD WEIGHT CAST IRON SOIL PIPE AND FITTINGS WITH CISPI STAINLESS STEEL CLAMPS OR SCHEDULE 40 GALVANIZED STEEL SCREW PIPE WITH MALLEABLE IRON STEAM PATTERN FITTINGS FOR ABOVE GRADE INSTALLATIONS. SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS WITH GASKETED JOINTS FOR BURIED PIPING.

   E. DOMESTIC COLD, HOT AND HOT WATER CIRCULATION PIPING: TYPE "L" COPPER TUBING WITH WROT COPPER OR CAST BRONZE FITTINGS AND LEAD-FREE SOLDERED JOINTS. TYPE "K" COPPER TUBING SHALL BE USED FOR ALL BURIED WATER PIPING WITHIN THE BUILDING.

   F. EXPOSED WATER PIPING AT FIXTURES: CHROME PLATED RED BRASS, EXCEPT SUPPLY RISERS MAY BE CHROME PLATED FLEXIBLE COPPER.

   G. GAS PIPING: SCHEDULE 40 SEAMLESS BLACK STEEL PIPE WITH THREADED, MALLEABLE IRON FITTINGS FOR 4" AND SMALLER SIZES. GAS PIPING AND FITTINGS 5" AND LARGER SHALL HAVE WELDED JOINTS.

10. VALVES
   A. SHUT-OFF VALVES AND BALANCING VALVES 3" AND SMALLER: BRONZE BODY, UNION/THREADED END BALL VALVES, 600 WOG, APOLLO 70-100 SERIES.

   B. SHUT-OFF VALVES 4" AND LARGER SHALL BE OS&Y TYPE, IRON BODY, BRONZE MOUNTED, MILWAUKEE MODEL F2885M.

   C. CHECK VALVES 2" AND SMALLER: BRONZE BODY, SOLDER ENDS, MILWAUKEE MODEL 510. 2.5" AND LARGER: IBBM, FLANGED ENDS, MILWAUKEE MODEL F2974M.

   D. GAS VALVES: .75" BALL VALVES SHALL BE MILWAUKEE MODEL BB2-100. LUBRICATED PLUG VALVES 1" AND LARGER SHALL BE HOMESTEAD FIGURE 611 OR 612.

   E. PRESSURE REDUCING VALVES: PROVIDE CLA-VAL MODEL 990 ON ALL CONNECTIONS WHERE THE PRESSURE EXCEEDS 85 PSI.

11. WATER HAMMER ARRESTORS
   A. INSTALL WATER HAMMER ARRESTORS IMMEDIATELY ADJACENT TO ALL EQUIPMENT WITH QUICK-CLOSING SHUT-OFF VALVES. J. R. SMITH 5000 SERIES.

12. INSULATION
   A. COVER ALL WATER PIPING, DRINKING FOUNTAIN WASTES AND HORIZONTAL STORM WATER PIPING WITH .5" FIBERGLASS PIPE INSULATION, 7.25 LBS PER CUBIC FOOT DENSITY WITH A MAXIMUM K FACTOR OF 0.24 AT 75°F. PROVIDE INSULATION WITH A FACTORY APPLIED, ALL PURPOSE VAPOR BARRIER JACKET WITH A SELF-SEALING LAP. INSULATION SHALL HAVE A COMPOSITE FIRE AND SMOKE HAZARD RATINGS NOT TO EXCEED 25 FLAME SPREAD AND 50 SMOKE DEVELOPED.

   B. ALL FITTINGS, VALVES, AND ROOF DRAIN BODIES SHALL BE COVERED WITH A GLASS JACKET, OR APPROVED EQUAL, OF THE SAME THICKNESS AND DENSITY AS ON THE ADJACENT PIPES.

   C. SEAL ALL ENDS OF INSULATION WITH BENJAMIN FOSTER BF 30-35 SEALANT.

   D. PROVIDE RIGID HIGH TEMPERATURE HYDROUS CALCIUM SILICATE INSULATION, 12 LBS PER CUBIC FOOT, ON ALL WATER PIPING PASSING THROUGH FIRE-RATED WALLS OR FLOORS.

   E. INSULATION FOR WATER PIPING PROVIDED WITH AN ELECTRIC HEATING CABLE SHALL BE OF A THICKNESS AS RECOMMENDED BY THE MANUFACTURER, BUT NEVER LESS THAN 1" THICKNESS.

   F. PROVIDE INSULATION ON P-TRAPS OF ALL ADA LAVATORIES, SIMILAR TO TRAP WRAP.

13. SLEEVES
   A. PROVIDE SLEEVES FOR ALL PIPING PENETRATIONS THROUGH WALLS AND POURED FLOORS.

   B. SLEEVES TO HAVE AN INTERNAL DIAMETER 1" LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE, INCLUDING INSULATION, UNLESS OTHERWISE NOTED HEREIN.

   C. CARRY INSULATION THROUGH PIPE SLEEVES.

   D. PROVIDE CAULKING BETWEEN PIPES AND PIPE SLEEVES AS FOLLOWS:

      1) FLOORS: OAKUM HEMP AND LEAD OR AS SPECIFIED FOR FIRE-RATED SHAFT WALLS BELOW.

      2) WATERPROOF WALLS: PERMANENT PLASTIC WATER-PROOF CAULKING COMPOUND, OR FIBERGLASS TO WITHIN .5" OF THE SURFACE AND FINISHED WITH CAULKING COMPOUND.

      3) FIRE-RATED SHAFT WALLS: MINERAL WOOL SEALED WITH JOHNS-MANVILLE "DUCKSEAL". INSTALL ESCUTCHEON WITH SET SCREW ON BOTH SIDES OF THE WALL.

14. HANGERS, ANCHORS AND INSERTS
   A. PROVIDE SUBSTANTIAL SUPPORT AND FASTENING FOR ALL EQUIPMENT AND PIPING. STRAP IRON OR PERFORATED STRAPS ARE NOT ACCEPTABLE. ATTACH SUPPORTS TO THE BUILDING STRUCTURE WITH BEAM CLAMPS, SHOT OR POURED INSERTS OR PHILLIPS, OR EQUAL, .75" EXPANSION BOLTS OR SHIELDS.

   B. PIPING IS TO BE SUPPORTED BY INDIVIDUAL CLEVIS TYPE HANGERS OR BY TRAPEZE HANGERS AT THE FOLLOWING INTERVALS:

      1) CAST IRON PIPE: EVERY 5'-0" AND ON BOTH SIDES OF EACH JOINT.

      2) COPPER AND STEEL PIPE 1.5" AND LARGER: AT 10'-0" INTERVALS.

      3) COPPER AND STEEL PIPE 1.25" AND SMALLER: AT 6'-0" INTERVALS.

      4) PROVIDE A SEPARATE SUPPORT FOR BRANCH PIPING 5'-0" AND LONGER.

   C. DO NOT SUPPORT PIPING FROM OTHER PIPING OR EQUIPMENT.

   D. SUPPORT VERTICAL LINES ADEQUATELY AT THEIR BASES BY A SUITABLE HANGER PLACED ON THE HORIZONTAL LINE NEAR THE BASE OF THE RISER. AN ADDITIONAL SUPPORT SHALL BE PLACED ON THE VERTICAL LINE AT EACH STORY.

   E. PROTECT INSULATED PIPES BY A SHEET STEEL INSERT AND PROVIDE A RIGID, HYDROUS CALCIUM SILICATE INSULATION INSERT AT THE HANGER.

15. NOT USED

16. CUTTING AND PATCHING
   A. DO NOT DISTURB ANY EXISTING STRUCTURE, PIPING OR OTHER WORK. WHERE CUTTING, DRILLING OR REMOVALS ARE REQUIRED IN EXISTING WALLS, FLOOR OR ROOF CONSTRUCTION, PERFORM THE WORK IN A MANNER THAT WILL SAFEGUARD AND NOT ENDANGER THE STRUCTURE OR ITS OCCUPANTS PRIOR TO ANY CUTTING OR REMOVALS. INVESTIGATE BOTH SIDES OF THE SURFACE INVOLVED AND DETERMINE THE EXACT LOCATION OF ADJACENT STRUCTURAL MEMBERS BY VISUAL EXAMINATION. ALL CUTTING AND PATCHING MUST BE COORDINATED BY THE GENERAL CONTRACTOR. REFER TO THE GENERAL CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

   B. EMPLOY MAXIMUM USE OF CORE DRILLING FOR PENETRATIONS THROUGH THE EXISTING STRUCTURE. DO NOT JACK HAMMER OR USE ANY OTHER CHOPPING METHODS EXCEPT WHERE OR WHEN SPECIFICALLY APPROVED BY THE ARCHITECT.

17. DEMOLITION
   A. PROVIDE ALL MATERIALS, LABOR AND SUPERVISION REQUIRED TO REMOVE, RELOCATE AND ALTER THE EXISTING PLUMBING SYSTEMS ASP INDICATED ON THE CONTRACT DRAWINGS.

   B. PERFORM THE WORK AS SCHEDULED BY THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER. PLAN THE INSTALLATION OF NEW AND INTERIM WORK TO INSURE MINIMUM INTERFERENCE WITH THE REGULAR OPERATION OF THE EXISTING FACILITIES. SUBMIT TO THE OWNER FOR APPROVAL A DATE SCHEDULE OF REQUIRED SHUTDOWNS PRIOR TO PERFORMING THE WORK.

   C. THIS WORK INCLUDES DISCONNECTING PIPING AT STACKS OR RISERS AND CAPPING TO AVOID DEAD ENDS, RECONNECTING ALL SYSTEMS AS REQUIRED TO ASSURE CONTINUITY IN CIRCULATING OR SUPPLY LINES AND RAISING ALL PLUMBING LINES WHERE REQUIRED TO CLEAR NEW CEILING HEIGHTS.

   D. ALL BULK DEMOLITION CONCEALED IN CONSTRUCTION AND OTHERWISE BETWEEN REMOVAL POINTS DESCRIBED ABOVE WILL BE PROVIDED UNDER OTHER WORK.

   E. TURN OVER ALL FIXTURES, PIPING AND EQUIPMENT TO THE OWNER TO DISPOSE OF, OR AS OTHERWISE DIRECTED.

   F. PROVIDE INTERIM WORK, IF REQUIRED, FOR CONTINUED, UNINTERRUPTED SERVICE WHERE EXTENDED SHUTDOWN IS REQUIRED.

18. CROSS CONTAMINATION PROTECTION
   A. PROVIDE A WATTS MODEL 7C DUAL CHECK BACKFLOW PREVENTER ON HOT AND COLD WATER SUPPLIES TO EQUIPMENT SUCH AS COFFEE MAKERS, ICE MACHINES, DISHWASHERS, AND OTHER SIMILAR FOOD SERVICE EQUIPMENT.

   B. PROVIDE A DOUBLE CHECK VALVE ASSEMBLY, CONBRACO SERIES 40-100, ON EACH HOT OR COLD WATER SUPPLY TO MECHANICAL EQUIPMENT WHERE AN AIR GAP IS ATTAINED BUT IS LESS THAN TWO TIMES THE PIPE DIAMETER. PROVIDE A DOUBLE CHECK VALVE ASSEMBLY ON ALL COOLING TOWER MAKE-UP CONNECTIONS REGARDLESS OF THE AIR GAP DIMENSION.

   C. PROVIDE AN RPZ DEVICE ON ALL MAKE-UP WATER CONNECTIONS TO MECHANICAL EQUIPMENT WHERE AN AIR GAP IS NOT ATTAINED.

19. PLUMBING FIXTURES AND TRIM
   A. PROVIDE ALL PLUMBING FIXTURES COMPLETE WITH ALL SUPPLY FITTINGS, TRAPS, VALVES, CARRIERS, HANGERS AND APPURTENANCES NECESSARY FOR OPERATION. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIXTURE SPECIFICATIONS NOT CONTAINED HEREIN.

   B. IF NOT SPECIFIED WITH THE FIXTURE, PROVIDE CHROME PLATED SUPPLIES THROUGH THE WALL, WHEEL HANDLE STOPS, AND FLEXIBLE SUPPLE RISERS, TAIL PIECES, CAST BRASS P-TRAPS, WASTE TO WALL AND ESCUTCHEONS AS REQUIRED FOR A COMPLETE INSTALLATION. ALL EXPOSED TRIM IS TO BE CHROME PLATED. WHERE SHOWER BASES ARE TO BE ASSEMBLED ON SITE, PROVIDE A SUITABLE LEAD PAN BASE.

   C. ALL FIXTURES ARE TO BE IN COMPLIANCE WITH LOCAL, MUNICIPAL AND STATE HANDICAP REQUIREMENTS. IN GENERAL, ANSI A117.1 IS TO BE FOLLOWED. COORDINATE REQUIRED CLEARANCES BEFORE INSTALLATION.

   D. MOUNT ALL HANDICAP LAVATORIES, WATER CLOSETS AND DRINKING FOUNTAINS IN ACCORDANCE WITH GOVERNING BARRIER FREE LAWS.

   E. WHERE APPLICABLE, SEAL ALL FIXTURES TO WALLS AND FLOORS USING G. E. SILICONE SEALANT. MATCH SILICONE COLOR TO FIXTURE COLOR.

   F. PROVIDE AN ACCESSIBLY LOCATED STOP VALVE ON EACH WATER CONNECTION TO EACH FIXTURE WHETHER THE FIXTURE IS FURNISHED BY THIS CONTRACTOR OR BY OTHERS.

   G. CLEAN FIXTURES, TRIM AND STRAINERS USING MANUFACTURERS RECOMMENDED CLEANING METHODS AND MATERIALS.

21. ACCESS DOORS
   A. THIS CONTRACTOR SHALL PREPARE A LIST OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, VALVES, CONTROLS, AND OTHER SIMILAR DEVICES, WHICH SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR WHO SHALL FURNISH AND INSTALL SAME. ACCESS DOORS SHALL BE OF AN AMPLE SIZE (MINIMUM 12" X 12").

   B. IN ADVANCE OF CEILING INSTALLATIONS, SUITABLY FIELD TAG AND IDENTIFY ALL CONCEALED ITEMS THAT REQUIRE ACCESS DOOR PROVISIONS.

22. INDIRECT WASTE PIPING
   A. PROVIDE ALL REQUIRED INDIRECT WASTE PIPING. INDIRECT WASTE PIPING MATERIAL IS TO BE COPPER TUBING OR GALVANIZED STEEL AND IT SHALL BE ARRANGED TO CAUSE AS LITTLE CONGESTION BELOW EQUIPMENT OR IN CABINETS AS POSSIBLE. TERMINATE INDIRECT WASTE PIPING 1" ABOVE FLOOR DRAIN OR FLOOR SINK. CUT END OF PIPES AT 45° ANGLE.

23. HOSE BIBBS
   A. PROVIDE A SPEAKMAN MODEL SC-5911 CHROME PLATED BRASS HOSE BIBB COMPLETE WITH VACUUM BREAKER.

25. ROOF AND FLOOR DRAINS

   A. FLOOR DRAINS IN FINISHED AREAS ARE TO BE ZURN MODEL ZN-415, CAST IRON BODY WITH NICKEL BRONZE STRAINER.

   B. FLOOR DRAINS IN MECHANICAL ROOMS ARE TO BE ZURN MODEL Z-525, CAST IRON BODY AND GRATE.

   C. WHERE FLOOR DRAINS REQUIRE A FUNNEL TOP, PROVIDE ZURN MODEL Z-328 FUNNEL ASSEMBLY. THE FINISH OF THE FUNNEL ASSEMBLY IS TO MATCH THE FINISH OF THE GRATE.

   D. ROOF DRAINS ARE TO BE ZURN MODEL Z-105-DP.

   E. OVERFLOW ROOF DRAINS ARE TO BE ZURN MODEL Z-100-DP-W4.

   F. DOWNSPOUT COVER TO BE ZURN MODEL ZS-199-DC.

26. FREEZE-PROOF WALL HYDRANTS

   A. FREEZE-PROOF WALL HYDRANTS ARE TO BE ZURN MODEL Z-1300-WC. FINISH TO BE SELECTED BY ARCHITECT.

2008 NEW YORK CITY BUILDING DEPARTMENT PLUMBING NOTES

THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, WATER DISTRIBUTION AND GAS) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE NEW YORK CITY 2008 PLUMBING CODE.

1. THE SANITARY SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS OF SECTION PC301
2. THE MATERIALS USED IN THE PLUMBING SYSTEMS WILL BE PROVIDED IN FULL ACCORDANCE WITH SECTIONS PC302 AND PC303
3. EQUIPMENT HOOK-UP AND THE JOINING WILL BE FULL COMPLIANCE WITH SECTIONS PC605 AND PC705
4. THE INSTALLATION OF FIXTURES WILL BE IN FULL ACCORDANCE WITH PC CHAPTER 4.
5. TRAPS FOR FIXTURES AND DRAIN LINES WILL BE PROVIDED AND CLEANOUTS INSTALLED IN FULL COMPLIANCE WITH SECTIONS PC412, PC708, AND PC CHAPTER 10.
6. VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND WITH THE FULL COMPLIANCE WITH SECTION PC308.
7. THE WATER SUPPLY SYSTEMS OF THE SUBJECT BUILDING SHALL BE INSTALLED AND M MAINTAINED IN FULL COMPLIANCE WITH PC CHAPTER 6.
8. THE SANITARY DRAINAGE SYSTEM WILL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH PC CHAPTER 7.
9. THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC702 & PC CHAPTER 9.
10. THE STORM DRAINAGE SYSTEM AND PIPING WILL BE INSTALLED IN FULL COMPLIANCE WITH PC CHAPTER 11.
11. GAS PIPING AND EQUIPMENT WILL BE INSTALLED IN FULL COMPLIANCE WITH THE NEW YORK CITY FUEL GAS CODE.
12. ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC306.
13. RAT PROOFING SHALL BE IN ACCORDANCE WITH SECTION PC304.
14. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKMAN AS PER SECTION PC311.

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Revision No.	Date	Remarks
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PH: (212) 253-7303 Fax: (212) 253-6512

Civil Engineer:
Joe Denora
1945 McDonals Ave.
Brooklyn, NY 11223
PH: (718)382-0747 Fax: (718)382-0133

TR3/Design Mix Engineer:
Dave Banerjee
15-46 129th. Street
College Point, NY 113565
PH: (718)939-7774 Fax: (718)939-6444

Elevator Consultant:
Scott Hayes
1953 86th Street, 2nd Floor
Brooklyn , NY 11214
PH: (718)266-1706

Control Inspectors (TR1), (TR2), (TR8):
Dave keyur
4 Mark Road Unit A
Kenilworth , NJ 07033
PH: (908)688-6682 Fax: (908)688-6687

DOB APPLICATION NO.
****

STATE OF NEW YORK · NICHOLAS P. TUCCI · 071681 · LICENSED PROFESSIONAL ENGINEER

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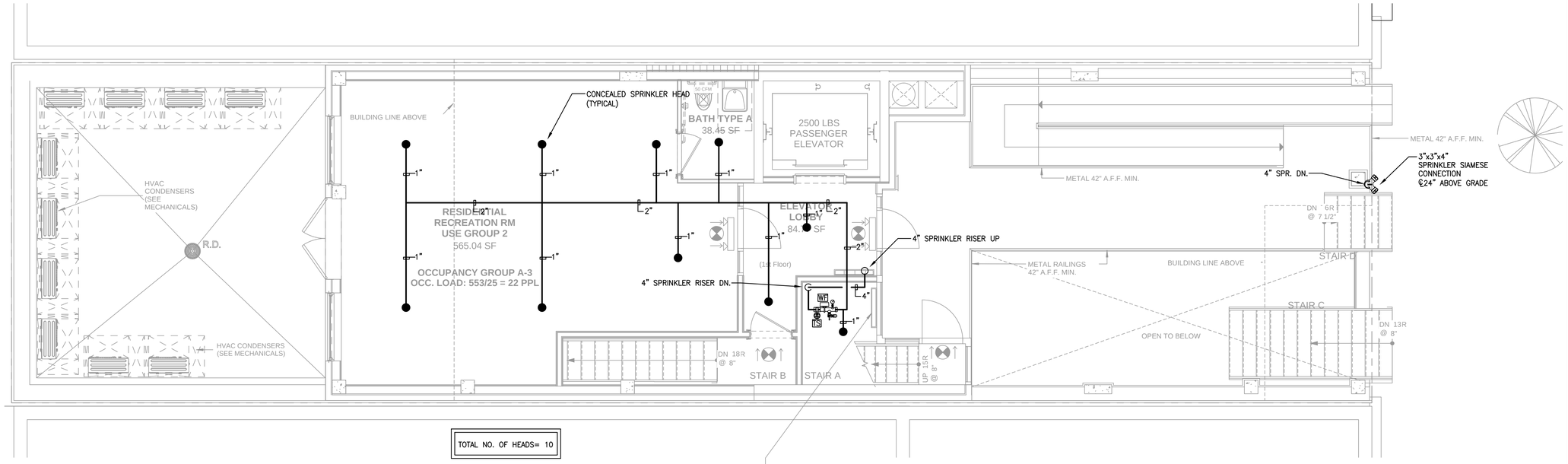
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
PLUMBING SPECIFICATIONS

DWG #
P-203.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 10 10



TOTAL NO. OF HEADS= 10

2 / SP101 **SPRINKLER FIRST FLOOR PLAN**

SCALE:1/4" = 1'-0"

GC TO PROVIDE AN ELECTRIC RADIATOR HEATING ELEMENT

HEATING ELEMENT W/THERMOSTAT

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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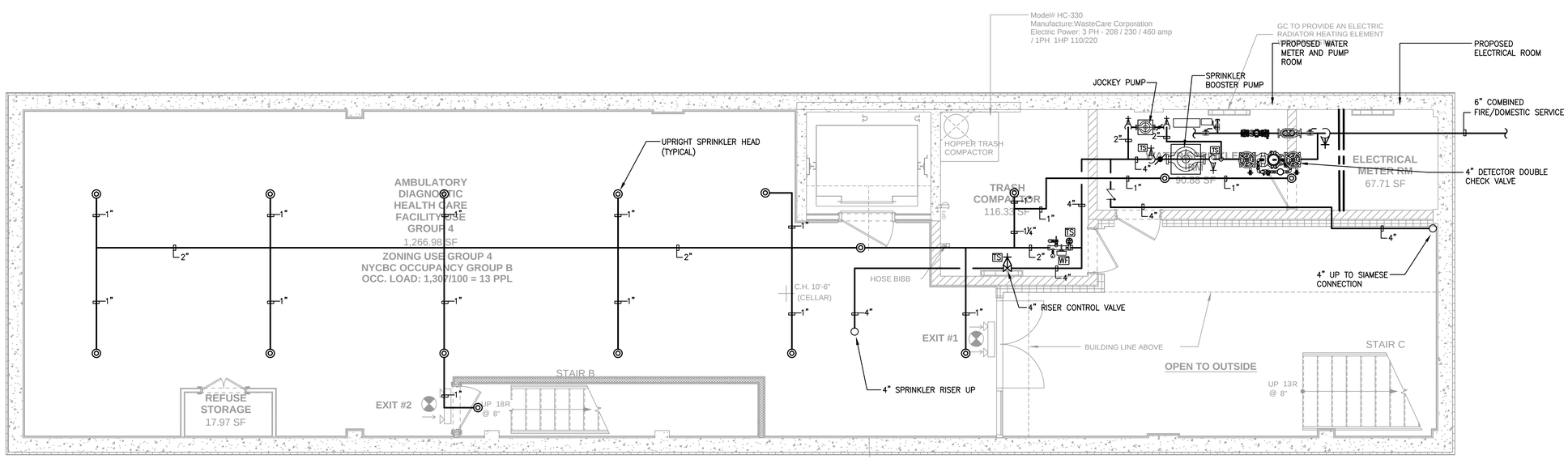

TOTAL NO. OF HEADS= 16

1 / SP101 **SPRINKLER CELLAR PLAN**

SCALE:1/4" = 1'-0"

Revision No.	Date	Remarks
01	11.15.13	Issued

Project Manager/Designer:
Jonathan Imani
110 York Steet
Brooklyn, NY 11201
PH: (718)222-0322 Ext. 206 Fax: (718)222-4177

Structural Engineer:
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139 Fulton street, Suite 214
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PH: (212) 393-9679

Mechanical Engineer:
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Elevator Consultant:
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PH: (718)266-1706

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DOB APPLICATION NO.
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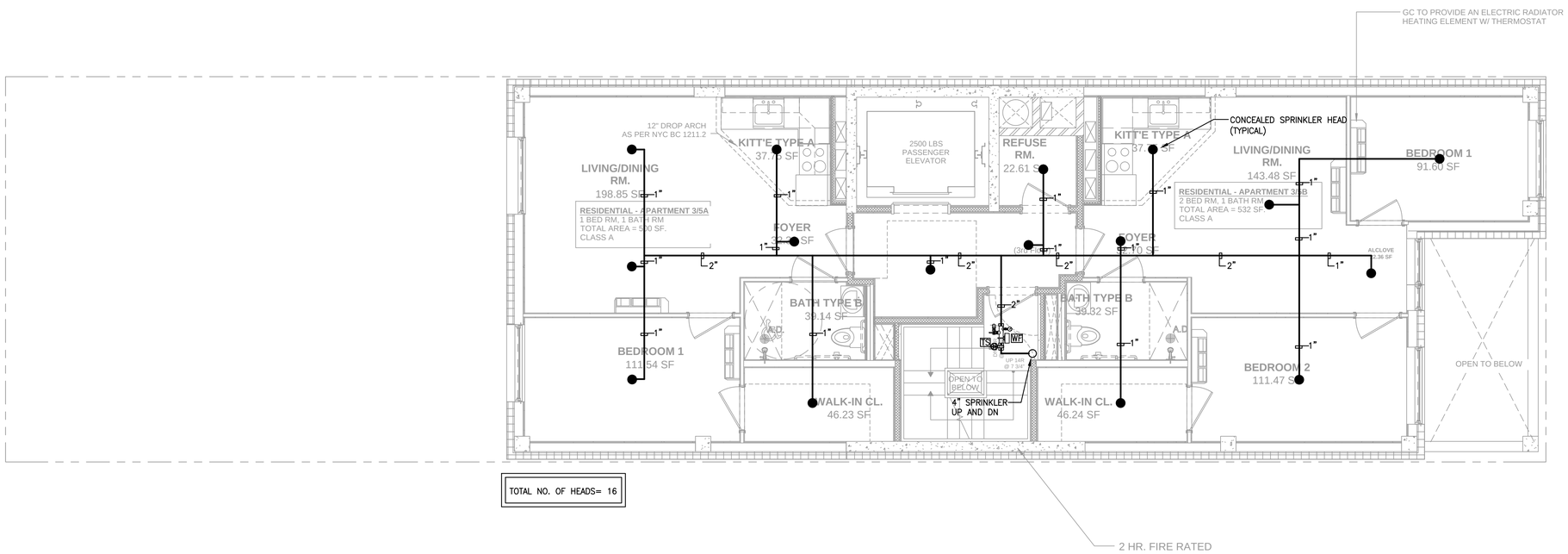
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
SPRINKLER
CELLAR AND 1ST FL PLANS

DWG #
SP-101.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job # 13221
	Checked: TSF
	SHT. NO. 01 06



TOTAL NO. OF HEADS= 16

2 / SP102 SPRINKLER THIRD TO FIFTH FLOOR PLAN (TYPICAL)

SCALE:1/4" = 1'-0"

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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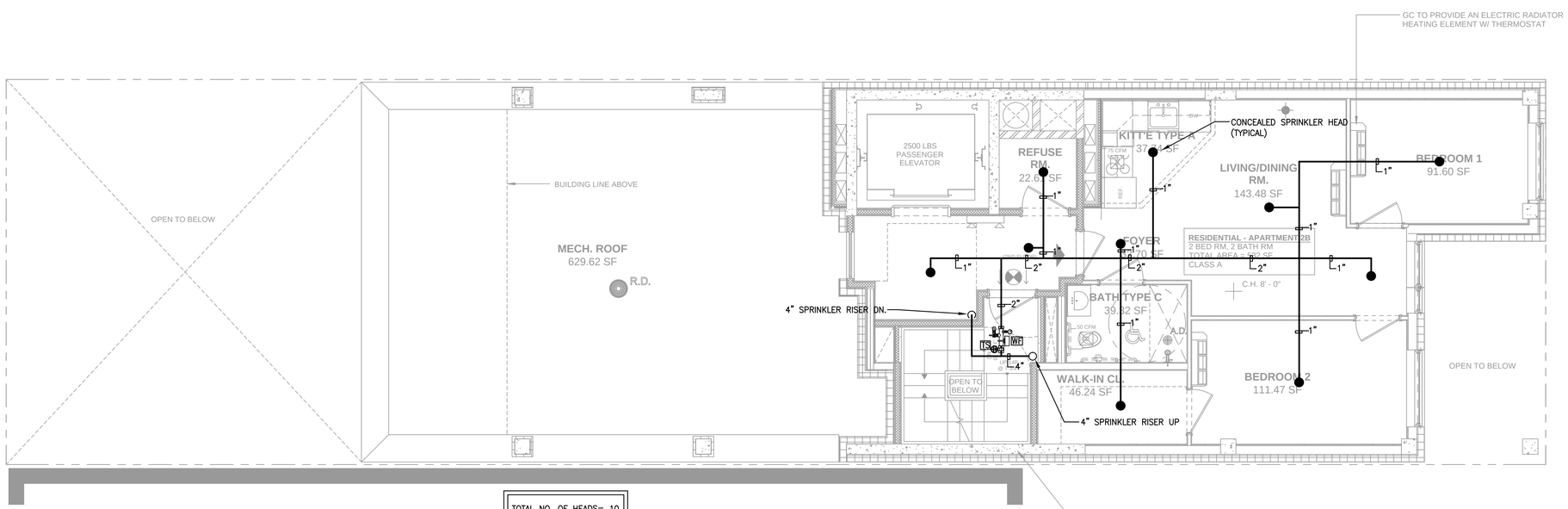

TOTAL NO. OF HEADS= 10

1 / SP102 SPRINKLER SECOND FLOOR PLAN

SCALE:1/4" = 1'-0"

Revision No.	Date	Remarks
01	11.15.13	Issued

Project Manager/Designer:
Jonathan Imani
110 York Steet
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PH: (718)222-0322 Ext. 206 Fax: (718)222-4177

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139 Fulton street, Suite 214
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PH: (212) 393-9679

Mechanical Engineer:
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Elevator Consultant:
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Control Inspectors (TR1), (TR2), (TR8):
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Kenilworth , NJ 07033
PH: (908)688-6682 Fax: (908)688-6687

DOB APPLICATION NO.
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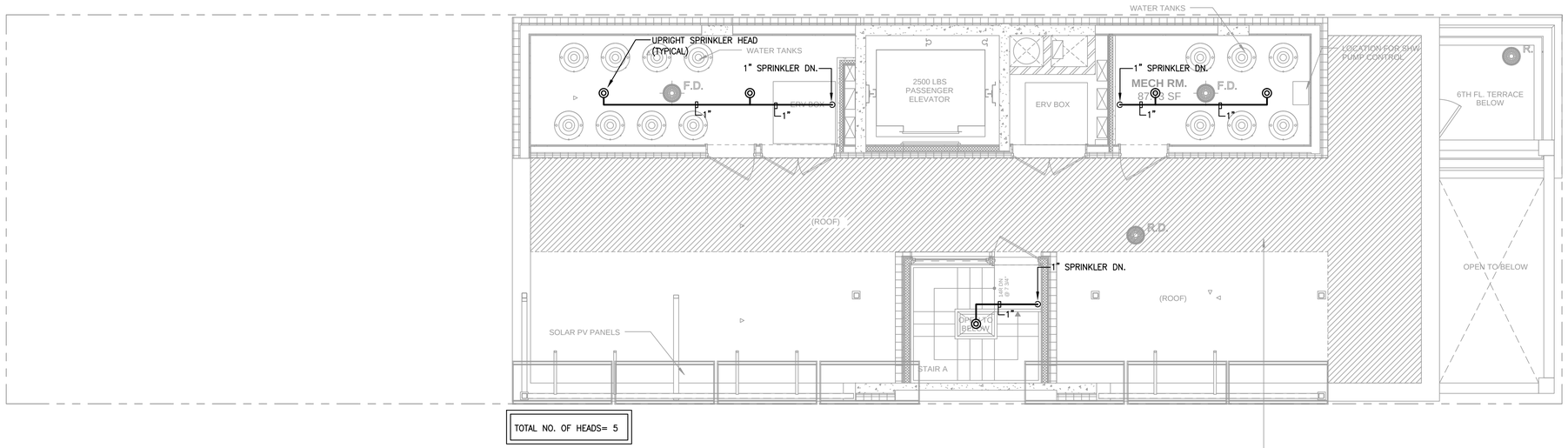
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
SPRINKLER
2ND FL AND 3RD TO
5TH FLOOR PLANS

DWG #
SP-102.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 02 06



TOTAL NO. OF HEADS= 5

FDNY ACCESS AS PER TECH. BULLETIN 2 OF 2011

2 / SP103 SPRINKLER ROOF PLAN

SCALE:1/4" = 1'-0"

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

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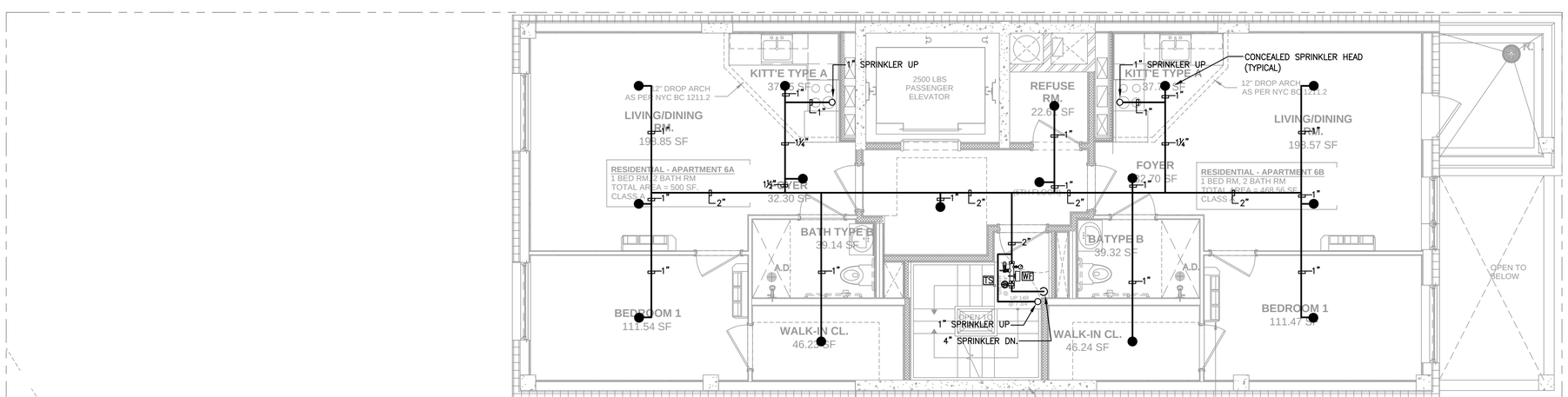

TOTAL NO. OF HEADS= 15

2 HR. FIRE RATED

1 / SP103 SPRINKLER SIXTH FLOOR PLAN

SCALE:1/4" = 1'-0"

GC TO PROVIDE AN ELECTRIC RADIATOR HEATING ELEMENT W/ THERMOSTAT

Revision No.	Date	Remarks
01	11.15.13	Issued

Project Manager/Designer:
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110 York Steet
Brooklyn, NY 11201
PH: (718)222-0322 Ext. 206 Fax: (718)222-4177

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DOB APPLICATION NO.
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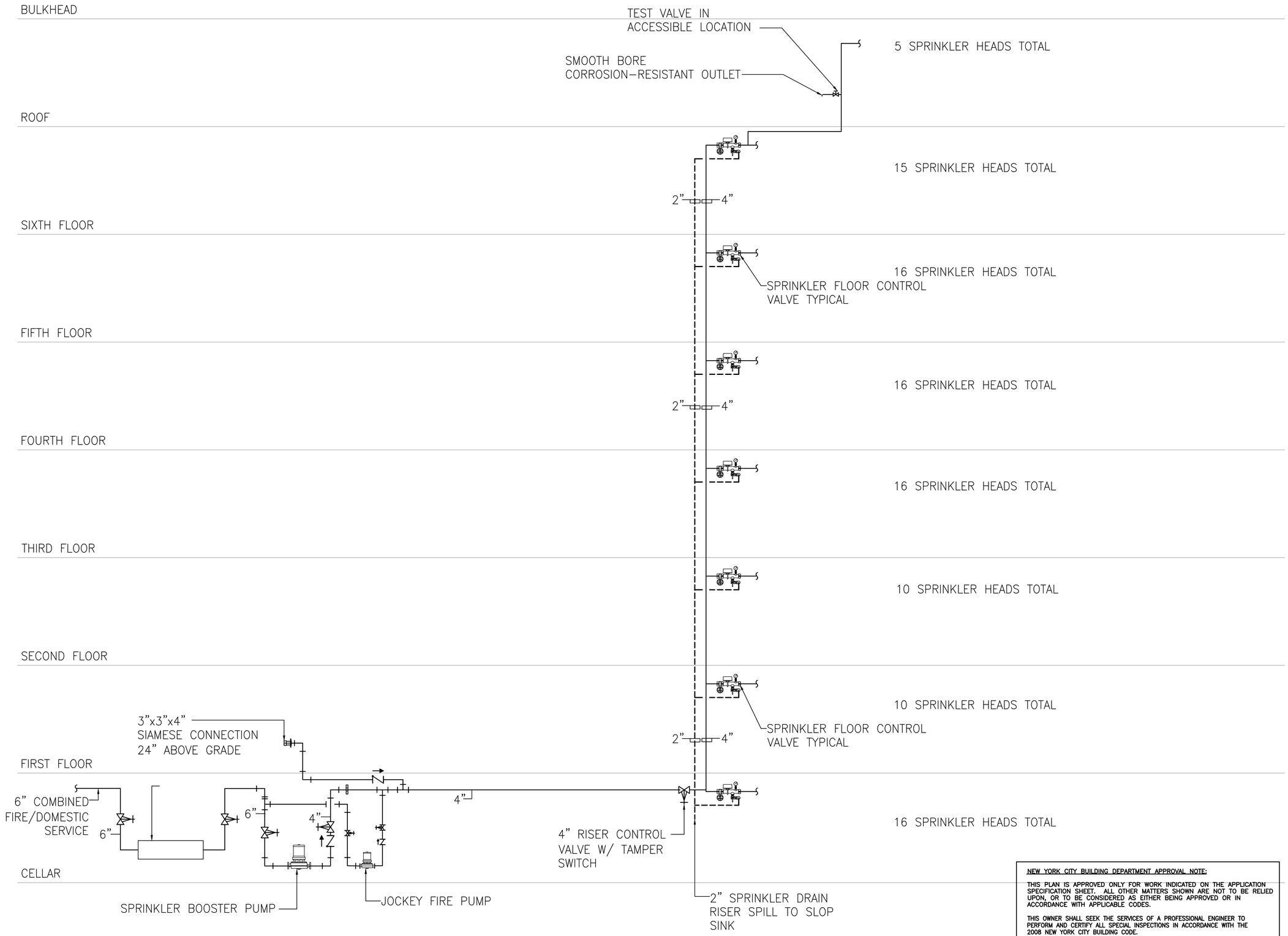
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
SPRINKLER
6TH FL AND ROOF PLANS

DWG #
SP-103.00

Signature:	Date: 11.13.13
Seal:	Scale: 1/4" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 03 06



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Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
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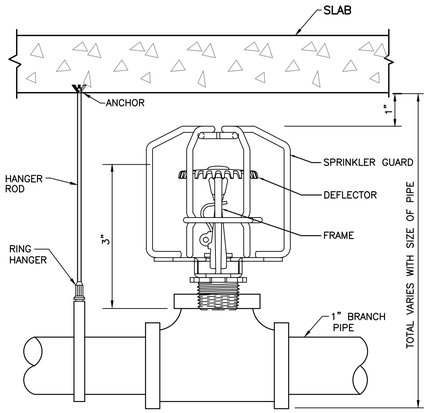
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
SPRINKLER
RISER DIAGRAM

DWG #
SP-104.00

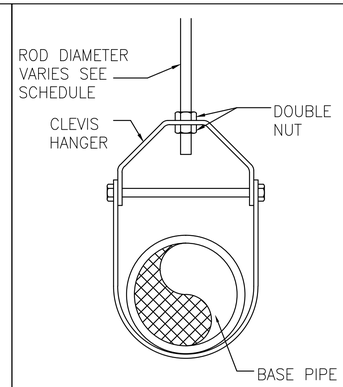
Signature:	Date: 11.13.13
Seal:	Scale: 1/4" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 04 06



PIPE SIZE	TOTAL
1"	6"
2"	7"
3"	8"
4"	9 1/2"
5"	10"
6"	12"

UPRIGHT SPRINKLER HEAD WITH SPRINKLER GUARD

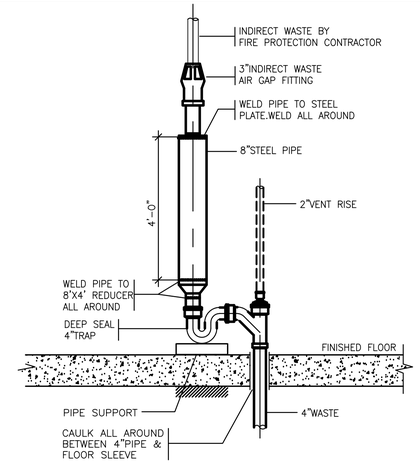
NOT TO SCALE



ROD SCHEDULE	
PIPE SIZE	ROD SIZE
1/2"	3/8"
3/4"	3/8"
1"	3/8"
1 1/4"	3/8"
1 1/2"	3/8"
2"	3/8"
2 1/2"	3/8"
3"	3/8"
4"	1/2"
5"	1/2"
6"	1/2"

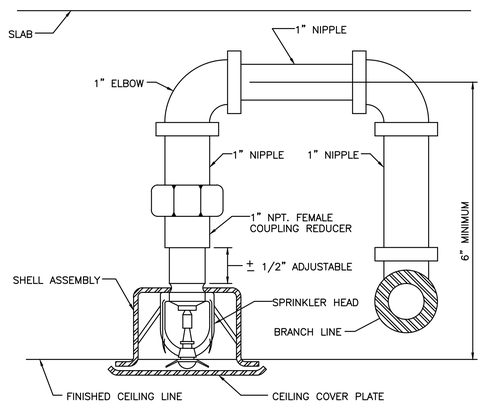
HANGER DETAIL

NOT TO SCALE



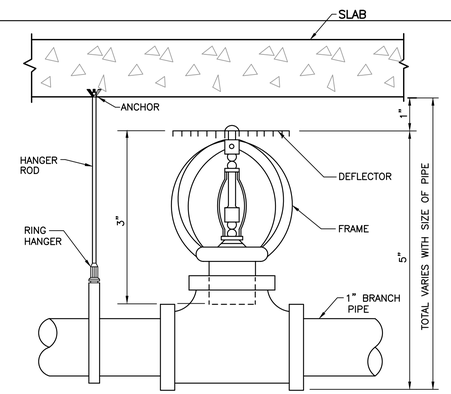
FUNNEL DRAIN FOR SPRINKLER RISER

NOT TO SCALE



CONCEALED SPRINKLER HEAD BRANCHLINE CONNECTION

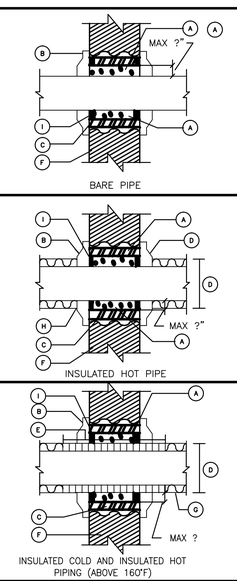
NOT TO SCALE



PIPE SIZE	TOTAL
1"	6"
2"	7"
3"	8"
4"	9 1/2"
5"	10"
6"	12"

UPRIGHT SPRINKLER HEAD BRANCHLINE CONNECTION

NOT TO SCALE



(A) ALL SPACES PACKED FULL DEPTH WITH MINERAL WOOL OR OTHER EQUALLY APPROVED FIRE RESISTIVE MATERIAL (ASBESTOS OR FIBERGLASS SHALL NOT BE USED)

FIRE RESISTANT FOAM SEALANT CHASE FOAM CTC P2-855 (NYC MEA#58-79 M#1&11 MAY BE USED. INSTALLATION AS PER MANUFAC-TURER.

(B) ESCUTCHEON BOTH SIDES SLEEVE

(C)

(D) DIAMETER OF INSULATED PIPE

(E) ANHYDROUS CALCIUM SILICATE INSULATION THRU SLEEVE

(F) FIRE RATED PARTITION WALL OR FLOOR

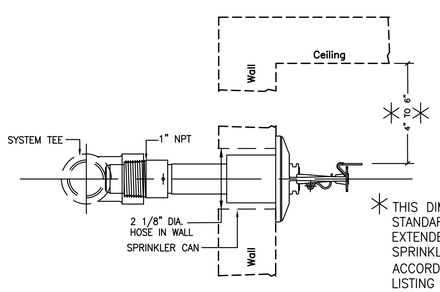
(G) FIBERGLASS INSULATION

(H) TERMINATE INSULATION AT ESCUTCHEON

(I) 1/2" DEPTH FIRE STOP FINISH SEALANT

DETAIL OF PIPING PIERCING FIRE RATED PARTITIONS, WALLS AND FLOORS

NO SCALE



* THIS DIMENSION SHALL APPLY TO STANDARD SPRAY SIDEWALL SPRINKLERS EXTENDED COVERAGE SIDEWALL SPRINKLERS SHALL BE LOCATED IN ACCORDANCE WITH MANUFACTURER'S LISTING

SIDEWALL SPRINKLER HEAD DETAIL

NOT TO SCALE

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Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
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STATE OF NEW YORK · NICHOLAS P. TUCCI · 071681 · LICENSED PROFESSIONAL ENGINEER

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
SPRINKLER DETAILS

DWG #
SP-201.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 05 06

2008 NEW YORK CITY SPRINKLER NOTES

1. THE INSTALLATION COMPONENT, SIZING, SPACING, CLEARANCES, POSITION AND TYPE OF SYSTEM SHALL CONFORM TO APPENDIX Q, SECTION BC903
2. ONLY APPROVED MATERIALS SHALL BE USED AS PER CHAPTER 6 OF APPENDIX Q, SECTION BCQ102
3. DIRECT CONNECTION OF SPRINKLERS TO THE PUBLIC WATER SYSTEM SHALL CONFORM TO SECTION BCQ102.1 SEE 15.2.1 AND 15.1.1 (d).
4. SPRINKLER SHALL BE PROTECTED AGAINST FREEZING AND INJURY AS PER APPENDIX Q BCQ102, SEC. 8.15.3 AND 6.3.8.
5. INSPECTIONS AND TEST OF SPRINKLERS SHALL BE CONDUCTED AS PER SEC. 901.5 AND APPENDIX Q, SEC BCQ102, CH. 16.
6. THE OCCUPANCY OF THE AREAS TO BE SPRINKLERED IN ACCORDANCE WITH SECTIONS 5.2 AND A.5.2. OF APPENDIX Q SECTION BCQ102
7. WATER SUPPLY TEST PIPES AND GAUGES SHALL BE PROVIDED AS PER SECTION 8.16.1 OF APPENDIX Q SECTION BCQ102
8. PIPING, FITTINGS, SPECIFICATIONS, PIPE SCHEDULES, SYSTEM TEST PIPES, PROTECTION AGAINST CORROSION, DAMAGE VALVES, HANGERS, SPRINKLER GUARDS AND SHIELDS SHALL BE AS PER APPENDIX Q SECTION BCQ102, CHAPTERS 6 AND 9.
9. STOCK OF EXTRA SPRINKLERS SHALL BE FURNISHED AS PER SECTION 6.2.9 APPENDIX Q SECTION BCQ102 (REQUIRED OF EACH TEMPERATURE RATING.)
10. SPRINKLER ALARM WILL BE IN ACCORDANCE WITH SECTION 8.16.1 OF APPENDIX Q SECTION BCQ102
11. SPACING AND LOCATION AND POSITION OF SPRINKLER WILL BE AS PER SECTION 8 OF APPENDIX Q SECTION BCQ102.
12. ALL BLIND SPACES EXCEEDING 6" IN WIDTH OR DEPTH WHICH CONTAIN COMBUSTIBLE MATERIAL WILL BE SPRINKLERED
13. ALL PIPING PASSING THROUGH WALLS WILL COMPLY WITH SECTION BC712
14. THERE IS NO HIGH PILED STORAGE AS DEFINED IN SECTION 3–3.12 OF APPENDIX Q SECTION BCQ102
15. DISTANCE OF SPRINKLERS FROM HEAT SOURCE SHALL BE AS PER TABLES 9.3.2.5 (A) AND 8.3.4.5 (B).
16. AS PER SECTION BC903.1.2 PROVIDED DEPARTMENT OF WATER SUPPLY LETTER WITH FLOW TEST DATA IF THERE IS A DIRECT CONNECTION TO THE STREET WATER SUPPLY.
17. ALL PIPES PASSING THROUGH FOUNDATION WALLS SHALL BE PROTECTED AS PROVIDED BY SECTION 305.5 OF THE PLUMBING CODE.
18. THIS APPLICATION IS NOT FILED AS A RESULT OF BY THE FIRE COMMISSIONER AS AUTHORIZED BY BS&A TO MODIFY THE CERTIFICATE OF OCCUPANCY NOR IS SUCH ACTION PENDING.
19. ALL VALVES SHALL BE IDENTIFIED AS REQUIRED BY SECTION 6–7.4 OF APPENDIX Q SECTION BCQ102.
20. DRAINAGE SHALL CONFORM TO SECTION 8.15.2 OF APPENDIX Q SECTION BCQ102.
21. A ONE PIECE REDUCING FITTING OF GOOD DESIGN SHOULD BE USED WHEREVER A CHANGE IS MADE IN THE SIZE OF PIPE, AS PER SECTION 6.4.6 APPENDIX Q SECTION BCQ102.
22. ALL VALVES ON CONNECTIONS TO WATER SUPPLY TO SPRINKLER SHALL BE APPROVED OS&Y OR APPROVED INDICATOR TYPE.
23. DRAIN VALVES AND TEST VALVES SHALL BE APPROVED TYPE AS PER SECTION 6.7.3 OF APPENDIX Q SECTION BCQ102.
24. HANGERS SHOULD BE SUPPORTED BY WROUGHT IRON U TYPE OR APPROVED ADJUSTABLE HANGERS. HANGERS SHALL BE OF THE TYPE APPROVED FOR USE WITH THE PIPE OR TUBE INVOLVED, AS PER CHAPTER 0 OF APPENDIX Q SECTION BCQ102.
25. PROVISIONS SHOULD BE MADE TO FACILITATE FLUSHING SYSTEM PIPING BY PROVIDING FLUSHING CONNECTION CONSISTING OF A CAPPED NIPPLE 4" LONG ON END OF A CROSS MAIN AS PER SECTION 9/12/16 OF APPENDIX Q SECTION BCQ102.
26. SPRINKLER SHALL BE AN APPROVED TYPE AS PER SECTION B8.3 OF APPENDIX Q SECTION BCQ102.
27. TEMPERATURE RATING SHALL COMPLY WITH SECTION 8.3 OF APPENDIX Q SECTION BCQ102
28. 18" MINIMUM CLEARANCE TO BELOW SPRINKLER DEFLECTOR AS PER SECTION 8.5.6 OF APPENDIX Q SECTION BCQ102.
29. SPACING AND LOCATION OF SPRINKLERS SHALL COMPLY WITH CHAPTER 8 OF APPENDIX Q SECTION BCQ102.
30. SPRINKLER SYSTEM COMPLIES WITH NFPA 13–2002 AS MODIFIED BY APPENDIX Q SECTION BCQ102.
31. SOURCES OF WATER SUPPLY FOR SPRINKLER SYSTEMS AS PER CHAPTER 15 OF APPENDIX Q SECTION BCQ102.
32. PIPE SCHEDULE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION 14.5 OF APPENDIX Q SECTION BCQ102.
33. AUTOMATIC INTERLOCK CUTOFF SWITCH FOR VENTILATION WILL CONFORM TO CHAPTER 6 OF THE MECHANICAL CODE (APPLICABLE ONLY IF THERE IS AN AIR SYSTEM UTILIZING RECALCULATED AIR AND REQUIRING A THERMOSTATIC DEVICE).
34. HYDRAULICALLY DESIGNED SPRINKLER SYSTEMS SHALL BE IN ACCORDANCE WITH CHAPTER 14 OF APPENDIX Q SECTION BCQ102.
35. MINIMUM BRANCH PIPE SIZE TO BE ONE INCH (1")
36. THIS APPLICATION IS MADE ONLY FOR WORK INDICATED ON THE SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

SPRINKLER SPECIFICATIONS

1. ADHERE TO THE APPLICABLE CONDITIONS INDICATED IN THE ARCHITECTURAL SPECIFICATIONS.

2. EXAMINE THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF ALL OTHER TRADES AND FIELD VERIFY THE LOCATION OF ALL LIGHTING FIXTURES, DIFFUSERS, EXISTING SPRINKLER HEADS AND OTHER EQUIPMENT THAT AFFECTS THIS WORK.

3. VISIT AND CAREFULLY EXAMINE THE EXISTING SPACE AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT AND MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

4. WITHIN THE AREA OF WORK UNDER THIS CONTRACT ALL 3/4" SPRINKLER PIPES, IF EXISTING, MAY REMAIN. WHEN EXTENDED TO NEW OR RELOCATED SPRINKLER HEADS, THE EXTENDED PIPING MUST BE 1" MINIMUM.1" PIPES. BRANCH PIPING SIZE TO BE ADJUSTED.

5. BASE ALL LABOR PRICING ON REGULAR TIME (NON–PREMIUM TIME). HOWEVER ALL CONNECTION SCHEDULING MUST BE APPROVED BY THE BUILDINGS MANAGEMENT PRIOR TO INTERRUPTION OF ANY BUILDING SERVICES. SUBMIT ADDITIONAL COST FOR EVALUATION TO MAKE EACH NEW CONNECTION ON PREMIUM TIME.

6. PRIOR TO INSTALLING OR SUBMITTING FOR APPROVAL ANY PORTION OF THIS WORK, COORDINATE THIS WORK WITH ALL OTHER TRADES AND AFFIX ANY INDICATION OF THIS COORDINATION ON EACH SHOP DRAWING SUBMITTED FOR APPROVAL.

7. REMOVE AND RELOCATE EXISTING SPRINKLER HEADS AND PIPING AS INDICATED ON SPRINKLER PLANS.

8. FOR EXACT LOCATION OF SPRINKLER HEADS, REFER TO ARCHITECTS REFLECTED CEILING PLANS.

9. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS:

   LOCATED WITHIN A TOLERANCE OF + 1/2 INCH OF THE CENTERLINE OF THE TILES.

10. INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING, WITH CARE THAT THE FINISH IS NOT DAMAGED.

11. CUT AND CONNECT NEW SPRINKLER HEADS TO EXISTING PIPING. ADJUST SPRINKLER PIPE SIZES WHERE REQUIRED.

12. CONFORM TO THE FOLLOWING APPLICABLE CODE WHICH COVERS THE REQUIREMENTS FOR THIS PROJECT LOCATION:

    NEW YORK CITY BUILDING CODE
    N.F.P.A. NO. 13 AS AMENDED BY APPENDIX Q OF THE NYC BUILDING CODE

13. ALL NEW SPRINKLER BRANCH LINES TO BE 1" MINIMUM.

14. ALL NEW SPRINKLER BRANCH (ARM) LINES EXCEEDING 2 FEET IN LENGTH TO BE PROVIDED WITH HANGERS.

15. ALL PIPING TO BE SCHEDULE 40 BLACK STEEL.

16. ALL FITTINGS TO BE PROVIDED WITH DRY LUBRICANT GASKET SYSTEM ON ALL CAST MALLEABLE IRON THREADED VICTAULIC GROVED AS MANUFACTURED BY VICTAULIC VIC–PLUS.

17. ONLY SHOULDER NIPPLES WILL BE USED. CLOSE NIPPLES WILL NOT BE ACCEPTABLE. ADJUST SPRINKLER HEAD TO THE NEW CEILING HEIGHT.

23. DURING THE TEST PERIOD, THE SPRINKLER SYSTEM WILL NOT BE CONNECTED TO THE DOMESTIC WATER SYSTEM OF THE BUILDING.

24. REPLACE WORK FOUND DEFECTED OR REPAIRED IF SO DIRECTED. AFTER REPLACEMENT OR REPAIR, TEST WORK AGAIN AS SPECIFIED. REPEAT UNTIL SATISFACTORY.

25. AFTER TEST IS COMPLETED, FLUSH ALL PIPING AT THE FLOW RATE DESIGNATED IN N.F.P.A. NO. 13. FLUSH PIPING USING SUFFICIENT WATER TO PRODUCE A MINIMUM WATER VELOCITY OF 2.5 FEET PER SECOND THROUGH PIPING BEING FLUSHED. CONTINUE UNTIL DISCHARGE WATER SHOWS NO DISCOLORATION DRAIN AT LOW POINTS. AFTER FLUSHING AND CLEANING, PREPARE SYSTEM FOR SERVICE BY IMMEDIATELY FILLING PIPING.

26. SUBMIT COMPLETE HYDRAULIC CALCULATIONS FOR EACH SYSTEM ON ALL FLOORS.

27. USE THE FOLLOWING GENERAL DESIGN DENSITY CRITERIA:

    LIGHT HAZARD: .10 GPM AT 1500 SQ. FT.
    ORDINARY HAZARD: .16 GPM AT 1500 SQ. FT.

28. TYPES OF SPRINKLER HEADS:

    A. CONCEALED – (MEA #258–95–E) WHITE COVER PLATE
       RELIABLE – MODEL FIFR

    B. UPRIGHT – (MEA #258–95–E) BRONZE FINISH
       RELIABLE – MODEL F1FR56

    C. RECESSED – (MEA #258–95–E)
       HORIZONTAL SIDEWALL MODEL: FIFR56

    D. RECESSED HORIZONTAL – (MEA #258–95–E)
       EXTENDED COVERAGE–EC4 MODEL: FIFR56 QREC

    E. HORIZONTAL SIDEWALL – (MEA #258–95–E)
       DRY SPRINKLER HEAD MODEL: F3

29. SPRINKLER BOOSTER PUMP
    SPRINKLER BOOSTER PUMP SHALL BE PEERLESS PUMP MODEL 5PVF7, 300 GPM @ 60 PSI, 25 HP, 3500 RPM, 208 VOLT, 3 PH, 60 CYCLE, FIRETROL MODEL FTA–750, ACROSS–THE–LINE FIRE PUMP CONTROLLER.

30. JOCKEY PUMP– SHALL BE GRUNDFOS MODEL: CR3–6 JOCKEY PUMP, 1.0 HP, 3500 RPM, 208 VOLT, 1 PHASE (11 GPM @ 70 PSI). FIRETROL MODEL FTA–550E XG JOCKEY PUMP CONTROLLER.

NEW YORK CITY BUILDING DEPARTMENT APPROVAL NOTE:

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

THIS OWNER SHALL SEEK THE SERVICES OF A PROFESSIONAL ENGINEER TO PERFORM AND CERTIFY ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH THE 2008 NEW YORK CITY BUILDING CODE.

THIS CONTRACTOR SHALL FILE AND OBTAIN ALL EQUIPMENT USE PERMITS FOR ANY AND ALL EQUIPMENT SPECIFIED ON THESE PLANS REQUIRING SUCH.

Revision No.	Date	Remarks
01	11.15.13	Issued

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DOB APPLICATION NO.
****

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Drawing scales as indicated are for reference only and are not intended to accurately depict actual or designed conditions. Written dimensions shall govern.

Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11222

Title:
SPRINKLER SPECIFICATIONS

DWG # SP-202.00

Signature:	Date: 11.13.13
Seal:	Scale: ¼" = 1'-0"
	Drawn: TSF
	Job #: 13221
	Checked: TSF
	SHT. NO. 06 06

Appendix F

Previous Environmental Investigation Reports

PHASE I
ENVIRONMENTAL
SITE ASSESSMENT

MULTI-FAMILY RESIDENTIAL
415 MANHATTAN AVENUE
BROOKLYN, NEW YORK 11222

PREPARED FOR:

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PREPARED BY:

LAUREL ENVIRONMENTAL ASSOCIATES, LTD.
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APRIL 15, 2013
***LEA* PROJECT # 12-409**

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415 Manhattan Avenue, Brooklyn, New York

LAUREL ENVIRONMENTAL ASSOCIATES, LTD.
ENVIRONMENTAL CERTIFICATION

***LEA* Project ID #:**	**12-409**
Report:	Phase I Environmental Site Assessment, ASTM E1527-05
Inspection Date:	April 7, 2013
Resource Date:	February 2013
Report Date:	April 15, 2013
Site:	415 Manhattan Avenue, Brooklyn, New York 11222 Located on the west side of Manhattan Avenue; north of the Brooklyn Queens Expressway and south of Bayard Street.
Weather Conditions:	35°F; Sunny
Inspection Limitations:	None
Client:	Chris Cielepak, 415 Manhattan Ave Realty Inc.

Report Prepared By:

Thomas H. Johansen
Environmental Scientist

Carla M. Sullivan, QA/QC
VP, Senior Geologist

ENVIRONMENTAL PROFESSIONAL CERTIFICATION

I declare that, to the best of my professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in § 312.10 of 40 Code of Federal Regulations (CFR) 312.

The Environmental Professional who directed this project has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

SCOTT A. YANUCK
Environmental Assessment
12200
Certified Site Assessor
Environmental Specialist

Scott A. Yanuck
Principal

4/15/13
Date

EXECUTIVE SUMMARY AND FINDINGS

On-site:

1. The Subject Property maintains one (1) two-story walk-up three-family residential dwelling. The building has a footprint of approximately 800 square feet and is situated on a parcel approximately 2,500 square feet in area. The building was constructed circa 1887 for residential purposes and fronts along Manhattan Avenue. The site is relatively flat, covered with the building, a mostly unpaved rear yard, concrete sidewalks and a side fire egress. The Subject Property is located in a residential and commercial area of the Williamsburg Section of Brooklyn, New York.

2. The Building maintains a basement, first, and second floors all utilized for apartment space. During ***LEA's*** site inspection the building was vacant and undergoing cosmetic changes-painting and sheet rock repair. The basement maintains a kitchen, bathroom, storage closets, and a bedroom. The utility meters and natural gas fired burners are also located in the basement. The first and second floors were observed to maintain a kitchen, multiple bedrooms and storage closets along with bathrooms. There is a large open back yard with two small concrete-paved areas located along the back of the building and the rear property boundary.

3. Due to the age of the building, lead-based paint may be present within the Subject Building. The majority of the painted surfaces were being re-painted during ***LEA's*** inspection and were observed to be in excellent condition. A lead based survey should be conducted prior to demolition or renovations.

4. No friable or non-friable suspect asbestos containing materials were noted during the inspection other than roofing materials. However, due to proposed demolition, an asbestos survey must be conducted prior to demolition.

5. No fill ports and/or vent pipes, which indicate the presence of underground storage tanks (USTs) or aboveground storage tanks (ASTs), were noted at the Subject Property at the time of the site inspection. Based upon our site reconnaissance, interviews, and review of state and local records, ***LEA*** identified no evidence of existing USTs or ASTs at the Subject Property. Based upon the age of the building, heat was most likely supplied by coal prior to conversion to either an oil-fired system or natural gas.

6. This site is listed twice as an E-Designated site: E-138 - Hazmat for underground gasoline storage tanks testing protocol and E-138 - Noise for air quality operable window limitations. Both E-Designation listings were issued on May 11, 2005.

Off-site:

1. There is one NPL listed site located within a one-mile radius of the Subject Property. Newtown Creek, ID# NYN000206282, is located 4,730 feet hydraulically down-gradient. Remediation is underway but not yet complete. Due to the hydraulic location relative to the Subject Property this site should not present a recognized environmental condition.

2. There is one CERCLIS listed site located within a ½-mile radius of the Subject Property. City Barrel, ID# NYD068298835, located 198 feet hydraulically side-gradient, is listed as having no further remedial action planned. Due to the hydraulic location and status of this facility, it should not present a recognized environmental condition to the Subject Property.

3. There are eighteen (18) listed IHWD sites within a one-mile radius of the Subject Property, all of which

are located hydraulically side and/or down-gradient and should not present recognized environmental condition to the Subject Property.

4. There is one listed HSWD site located within a one-mile radius of the Subject Property. City Barrel, Registry ID# N, located 188 feet hydraulically side-gradient, has an unknown remedial status. Based upon the hydraulic location this facility, relative to the Subject Property, it should not present a recognized environmental condition.

5. There are eight active NYSDEC listed spills and six active NYSDEC listed leaking USTs located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

6. There is one site located within a ¼-mile of the Subject Property listed as an Air Discharge Site. Elli Woodworking Industries, ID# 36047P0003, located 595 feet north of the Subject Site, is listed as releasing sip source VOCs. The facility is in operation and with active violations regarding both emissions and procedural compliance. Due to the resource affected and lack of traceability, no determination can be made as to the environmental threat to the Subject Property.

7. There is one property located within a ⅛-mile radius listed as a Civil & Administrative Enforcement Docket sites. NYC BD of ED-Junior High School, ID #NY0000379990 is in violation of asbestos. This case was concluded in 1999 and should not present a recognized environmental condition at the Subject Property.

Based on the findings of this investigation, ***Laurel Environmental Associates, Ltd. (LEA)*** has discovered the following recognized environmental conditions at the Subject Property, 415 Manhattan Avenue, Brooklyn, New York 11222.

Recognized Environmental Conditions	***Potential Impacts***
• E-Designation	High Risk
• Potential former USTs	Low Risk
• Possible Asbestos Containing Materials	Low Risk
• Lead based paints	Low Risk

EXECUTIVE RECOMMENDATIONS

Based on the above conclusions ***LEA*** recommends the following:

1. Conduct a Geophysical Survey to check for possible USTs or other anomalies at the site.
2. Utilizing a 420M Limited access Geoprobe conduct at least five soil borings within the property boundary to determine the soil conditions.
3. Utilizing a 420M Geoprobe collect groundwater from three locations to determine groundwater quality and flow direction.
4. Conduct a soil vapor survey, with two subslab, one indoor and one outdoor air samples to determine the soil vapor and air quality on-site.
5. An asbestos survey must be conducted prior to demolition.
6. Submit all samples to a NYS Certified laboratory.
7. Review results and write a report with remedial objectives clearly outlined.
8. Submit data and report the NYC OER offices for review.

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REPORT SPECIFICATIONS

This report contains (57) pages of text.

Copies and circulation of this report are as follows:

(3) Two bound copies and one electronic copy to Chris Cielepak

(1) One copy in the confidential client file at ***Laurel Environmental Associates, Ltd.***

This report is prepared for the exclusive use of the principal(s) noted above and is considered private and confidential. ***LEA*** shall not release this report or any of the findings of this report to any person or agency except with the authorization of the named principal(s).

The accuracy of the findings obtained through this environmental audit was considered to be of paramount importance during the formulation of this report. However, the accuracy of this report is limited to the information available from interviews, records, and plans released by the property owner or his representatives, and the respective regulatory agencies; their attorneys and information officers, whose interest in issues presented herein is unknown to ***LEA***.

1.0 INTRODUCTION

Laurel Environmental Associates, Ltd. was retained by Chris Cielepak to conduct a Phase I Environmental Site Assessment (ESA) of the residential property located at 415 Manhattan Avenue, Brooklyn, New York 11222 (please see Figure 1.0, Site Location).

The purpose of this Phase I ESA is to determine if any recognized environmental conditions exist within the property in question. Recognized Environmental Conditions (RECs) would include, but not be limited to: hazardous/toxic wastes or raw chemicals stored, dumped, or spilled on the site; underground storage of hazardous materials; friable asbestos in building materials/structures; and identification of potential off-site sources of hazardous waste contamination, such as industrial facilities adjoining the Subject Site.

The conclusions of this Phase I ESA are based on findings at the time of ***LEA's*** site visit and review of readily ascertainable historical records, regulatory documents, and databases made available within a reasonable time period. Due to limited availability, ***LEA*** is not able to make any determinations with respect to portions of the Subject Property and structures which were not inspected or regulatory documents not provided within a timely fashion.

1.1 ASTM STANDARD PRACTICE E-1527-05

1.1.1 Purpose

The purpose of the American Society for Testing and Material (ASTM) Standard Practice for Environmental Site Assessments, E-1527-05, as well as Practice E-1528-06, is to define good commercial and customary practice in the United States of America for conducting an *ESA* of a parcel of *commercial real estate* with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and *petroleum products*. As such, this practice is intended to permit a *user* to satisfy one of the requirements to qualify for the *innocent landowner defense* to CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC § 9601(35)(B). An evaluation of *business environmental risk* associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this practice.

1.1.2 Definition of Recognized Environmental Conditions

In defining a standard of good commercial and customary practice for conducting an *environmental site assessment* of a parcel of *property*, the goal of the processes established by this practice is to identify *recognized environmental conditions*. The term *recognized environmental conditions* means the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, groundwater, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not *recognized environmental conditions*.

It is not generally within the scope of this report to perform intrusive or aggressive testing of suspect materials observed at the site. Materials will be identified as environmentally suspect; however, a representative sampling procedure is required to fully assess the occurrence of the following materials: electrical devices containing Poly-Chlorinated Biphenyls (PCBs); the presence of radon gas; lead-based paint; asbestos containing materials; and mold.

1.2 SCOPE OF WORK

To complete the Environmental Site Assessment, the following tasks were performed in conformance with American Society for Testing and Material (ASTM) Standard Practice for Environmental Site Assessments, E-1527-05:

1. A detailed walk-through inspection of the Subject Property or representative areas of the property.
2. An interview with the owner and facility manager concerning past and/or present operations conducted at the Subject Property.
3. Comparison of fair market value and listed sale price is not applicable as the Property is not for sale.
4. An environmental lien search was not provided by the client.
5. The presence of suspect asbestos containing materials (ACM) was noted.
6. The presence of suspect lead-based paints was noted.
7. A review of New York City building department, fire marshal, and/or tax assessor's office records to identify past owners, possible uses of the property, and construction details.
8. A review of state and federal regulatory agency documents concerning the location of known hazardous waste sites within proximity of the Subject Property.
9. A review of files/documents maintained by state and local regulatory agencies to investigate potential environmental hazards associated with the Subject Property when such information exists.
10. Major sources of electromagnetic fields were identified.
11. Identification of surrounding property use.
12. A review of City Directories.
13. Sanborn Fire Insurance Maps review from 1887 to 2007.
14. A review of historical aerial photographs from 1984 to 1994.
15. A review of historical topographical maps from 1900 and 1967.
16. An identification of data failure and gaps.
17. Approximate the depth to groundwater and direction of regional groundwater flow beneath the Subject Property.
18. List recommendations for further study, as required (added to standard ASTM scope of work).

Findings, conclusions, and recommendations presented in Sections 8.0 through 10.0 (pages 41 through 45), are based on the careful consideration of the results of the above research. Any recommendations made are formulated with respect to maintaining or protecting the collateral value of the property and providing protection from toxic tort lawsuits.

Business environmental risk can have a material or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate. It is not necessarily limited to those environmental issues required to be investigated in the ASTM Standard Practice for Environmental Site Assessments, E-1527-05. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations, some of which are identified on the following page.

There may be environmental issues or conditions at the Subject Property that parties may wish to assess in connection with commercial real estate that are outside the scope of this practice. As noted by the legal analysis in Appendix X1 of the ASTM Standard Practice for Environmental Site Assessments, E-1527-05, some substances may be present on a property but are not included in CERCLA's definition of hazardous substances (42 USC § 9601(14)) or do not otherwise present potential CERCLA liability. In any case, they are beyond the scope of this report. The following listed concerns are several non-scope considerations that entities may want to assess in connection with commercial real estate. No implication is intended as to the relative importance of inquiry into such non-scope considerations and this list of non-scope considerations is not intended to be all-inclusive, but can be completed upon request.

1) Lead in Drinking Water
2) Regulatory Compliance
3) Cultural and Historical Resources
4) Industrial Hygiene
5) Health and Safety
6) Ecological Resources
7) Endangered Species
8) Indoor Air Quality, and
9) Mold Sampling of Air and Surfaces

1.3 CONFLICT CERTIFICATION

Laurel Environmental Associates, Ltd. has no present or contemplated future ownership interest or financial interest in the real estate that is the subject of this Environmental Assessment Report. ***LEA*** has no personal interest with respect to the subject matter of the Environmental Site Assessment or the parties involved, and ***LEA*** has no relationship with the property or the owners thereof which would prevent an independent and unbiased analysis of the environmental or other conditions of the property.

1.4 VIABILITY OF PHASE I ESA

An updated Phase I ESA should be performed if it appears that the property transaction will not close by the Phase I ESA Report Viability Date. Pursuant to Section 4.6 of ASTM E1527-05, Phase I ESAs are considered viable for 180 days. In calculating the Report Viability Date, ***LEA*** used the date that was the earliest of the following four tasks: the interview of those present owners identified in Section 10 of ASTM E1527-05, the government record review, and the visual inspection of the Subject Property and adjoining properties.

1.5 SIGNIFICANT ASSUMPTIONS

Information regarding the Subject Property was reasonably ascertainable and therefore, no significant assumptions have been made, unless otherwise noted in a specific section of this report.

1.6 USER RELIANCE

This report was prepared solely for the use of the client, Chris Cielepak, and is not intended for use by third parties. Unauthorized third parties shall indemnify and hold ***LEA*** harmless against any liability for any loss arising out of, or related to, reliance by any third party on any work performed hereunder, or the contents of this report.

1.7 DATA GAPS

Any data gaps identified herein, as defined by ASTM Practice E 1527-05 § 3.2.20, are not considered to have significantly affected the ability to identify recognized environmental conditions in connection with the Subject Property and do not alter the conclusions of this report.

1.8 LIMITATIONS

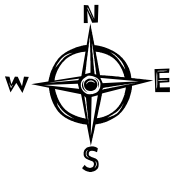
To the best of ***LEA's*** knowledge, the information contained in this report is true and accurate. Due diligence has been exercised by ***LEA*** personnel in the compilation of the information contained herein, appropriate to environmental professionals engaged in investigations of this sort. ***LEA*** makes no guarantees regarding the accuracy of information gained from other sources.

The Subject Property location and boundaries as understood by ***LEA*** are depicted in the maps appended to this report. It is the responsibility of the reader to verify that the location and boundaries depicted herein are correct.

1.9 SITE DETAILS AND INSPECTION OVERVIEW

Site Details and Inspection Overview†		
Site Address	415 Manhattan Avenue, Brooklyn, New York 11222	
Cross Streets	Richardson Street and Bayard Street	
Site Owner	Guidice, Tenants In	
Site Occupant	Vacant	
Tax Lot	Block: 2723 Lot: 30	
Municipality	Williamsburg Section of Kings County	
Zoning	Mixed-Use	
USGS Quadrangle	Brooklyn	
Physical Location	Latitude 40° 43' 08.28" North Longitude 73° 56' 49.62" West	
NAICS Code Usage	531110 – Multi-Family Residential	
Land Size	Approximately 2,500 square feet	
Building Footprint	Approximately 800 square feet	
Site Elevation	14 feet	
Site Topography	Unremarkable	
Date of Construction	Circa 1887	
Current Heating System	Natural Gas-Fired Burners	
Utilities	**Electric**	Consolidated Edison
	Natural Gas	Consolidated Edison
	Water	City of New York
	Sanitary System	Municipal
Chemical Storage*	Absent	
Drum Storage	Absent	
Petroleum Storage Tanks	Absent	
Suspect Asbestos	Absent	
Water Damage/Mold Growth	Absent	

†Based on areas available for inspection, not all areas may have been accessible.
*Other than typical housekeeping and/or janitorial supplies.



Map of Kings County

★ = Approximate site location

2.0 SITE DESCRIPTION

Thomas H. Johansen, a ***LEA*** Geologist and Site Inspector completed the inspection of the Subject Property on April 7, 2013. The inspection was conducted with Karen (a representative of the property owner). The property was walked through and any indication of an environmental hazard was noted. Operations conducted at the Subject Property were observed, photographs were taken of the Subject Property, associated structures, and adjoining properties. Please refer to Appendix A of this report.

2.1 BUILDING AND PROPERTY INSPECTION

The Subject Property maintains one (1) two-story walk up three family residential dwelling with a footprint of approximately 800 square feet situated on a parcel approximately 2,500 square feet in area. The building was constructed circa 1887 for residential purposes and fronts along Manhattan Avenue. The site is relatively flat, covered with the building, a partially paved rear yard, concrete sidewalks and a side fire egress. The Subject Property is located in a residential and commercial area of the Williamsburg Section of Brooklyn, New York.

The Building maintains a basement, first, and second floors all utilized for apartment space. During ***LEA's*** site inspection the building was vacant and undergoing cosmetic changes, limited to painting and sheetrock repair. The basement maintains a kitchen, bathroom, storage closets, and a bedroom. The utility meters and natural gas fired burners are also located in the basement. The first and second floors were observed to maintain kitchens, multiple bedrooms and storage closets along with bathrooms. There is a large open back yard with two small concrete-paved areas located along the back of the building and the rear property boundary.

The building is serviced with public water from the City of New Yorkand with electricity and natural gas from Consolidated Edison. The Subject Building is heated by three natural gas fired burners located in the basement.

2.2 GENERAL HOUSEKEEPING PRACTICES

Housekeeping was noted to be fair throughout the building and grounds-typical of a vacant building undergoing minor renovations.

2.3 VEGETATION

The Subject Property maintains a grass yard located on the west side of the Subject Property, observed to be relatively healthy with no signs of obvious distress.

2.4 CLASS V INJECTION WELLS

Class V injection wells are used to inject non-hazardous fluids underground. Most Class V wells are used to dispose of wastes into or above underground sources of drinking water and can pose a threat to groundwater quality, if not managed properly. Most Class V wells are shallow disposal systems that depend on gravity to drain fluids directly into the ground. There are over 20 well sub-types that fall into the Class V category and these wells are used by individuals and businesses to inject a variety of non-hazardous fluids underground. The United States Environmental Protection Agency (USEPA) estimates that there are more than 650,000 Class V wells in operation nationwide. Most of these Class V wells are unsophisticated shallow disposal systems that include storm water drainage wells, cesspools, and septic system leach fields. However, the Class V well category also includes more complex wells that are typically deeper and are often used at commercial and/or industrial facilities.

Other more sophisticated Class V well types could include aquifer storage and recovery wells or geothermal electric power wells - that are used to inject geothermal fluids extracted from subsurface hydrothermal systems. Complex Class V wells also include wells that are used for pilot Geologic Sequestration (GS) projects that are experimental in nature. On December 10, 2010, the USEPA finalized regulations for GS projects. These new regulations include the creation of a new class of wells, Class VI. The USEPA understands that some of the wells permitted as Class V experimental technology wells may no longer be used for experimental purposes. Following the final rule, Class V wells that are not being used for experimental purposes must be re-permitted as Class VI wells and will be subject to Class VI requirements.

Class V wells are a concern because they pose a risk to underground sources of drinking water. Because of this they are regulated by the Underground Injection Control (UIC) program under the Authority of the Safe Drinking Water Act.

2.4.1 Septic Systems

Sanitary waste has been handled by public sewer since construction of the Subject Building circa 1887. Based on the historical usage as a residence, any discharge into a possible on-site sanitary system does not pose a significant environmental condition.

2.4.2 Storm Water Drainage

Storm water and roof run-off is handled by natural drainage and runoff to Manhattan Avenue.

2.4.3 Floor Drains

No floor drains were noted in the Subject Building during the on-site inspection.

2.5 CURRENT SITE OPERATIONS

The Subject Property was recently vacated and undergoing renovations.

2.6 PAST SITE OPERATIONS

The Subject Property has been used for residential purposes since construction circa 1887.

2.7 CHEMICAL USE AND STORAGE

No chemical storage was noted within the Subject Building or on the grounds during the on-site inspection. Former chemical storage is assumed to have been limited to typical housekeeping supplies.

2.7.1 Biohazardous Waste

No biohazardous waste is generated or stored at the Subject Property.

2.8 DRUM STORAGE

No drum storage was noted during the site inspection.

2.9 UNDERGROUND AND ABOVEGROUND STORAGE TANKS

The Subject Property was inspected for tank fill ports, vent pipes, and other signs of aboveground storage tanks (ASTs) and/or underground storage tanks (USTs). No fill ports and/or vent pipes, which indicate the presence of USTs or ASTs, were noted at the Subject Property at the time of the site inspection. Based upon our site reconnaissance, interviews, and review of state and local records, ***LEA*** identified no evidence of existing USTs or ASTs at the Subject Property. Based upon the age of the building, heat was most likely supplied by coal prior to conversion to either an oil-fired system or natural gas.

2.9.1 Emergency Generators

No emergency generators and associated tanks were observed during our site reconnaissance.

2.10 PCBs in Electrical Transformers and Fluorescent Lighting Ballasts

There are three types of transformers defined in the Poly-Chlorinated Biphenyls (PCBs) regulations:

- PCB Transformer: Any transformer containing 500 parts per million (ppm) PCBs or greater.
- Non-PCB Transformer: Any transformer containing less than 50 ppm PCBs.
- PCB Contaminated Transformer: Any transformer containing 50-499 ppm PCBs. These transformers are not subject to parts of the regulations, such as marking requirements, and if drained of liquid, to disposal requirements. Any liquid drained from these transformers must be stored and disposed of in accordance with the regulations.

Transformers often contain dielectric liquid for the primary purpose of increasing resistance of the unit to arcing and acting as a heat transfer media, helping to cool the coils. The majority of transformers are filled with mineral oil, but a small percentage of these liquid-filled transformers contain PCB Askarel coolant liquid. The term "Askarel" is a generic term used for a group of nonflammable synthetic chlorinated hydrocarbons. All types of Askarels sold prior to 1979 contained 60 to 100 percent PCBs. Askarel transformers were manufactured in a variety of sizes, i.e. 3 to 3,000 gallons of PCB liquid, and are generally used in hazardous locations where flammability is of concern. PCB transformers are no longer produced because of the USEPA ban on the manufacture of new equipment containing PCBs.

Prior to the banning of PCB manufacturing in 1976, the compounds were used in small amounts during the production of fluorescent light ballasts. According to USEPA regulations, light ballasts containing less than three pounds of PCBs are exempt from special hazardous waste transportation and disposal and may be disposed of as municipal wastes; however, removal is not required by law. To determine if the light ballasts contain PCBs, the light fixtures would have to be dismantled, the make and model number obtained, and the manufacturer contacted. If the lighting is to remain, maintenance personnel should be advised of the possibility that the ballasts may contain PCBs. Workers should exercise caution when handling the ballasts, taking care not to cause leaks. Protective gloves and clothing should be worn when handling ballasts.

There are no pad or pole-mounted transformers located at the Subject Property. The building is illuminated with fluorescent and incandescent lighting. Light ballasts may contain PCBs given the buildings age.

2.11 FRIABLE AND NON-FRIABLE SUSPECT ASBESTOS CONTAINING MATERIALS

The USEPA designated material containing more than 1% asbestos to be considered as an Asbestos Containing Material (ACM). Where asbestos containing material is determined to be "Friable" (capable of being crushed by hand pressure and having a high potential to release airborne fibers), it is the recommendation of the USEPA that strong response action be taken. Such actions may take the form of removal, encapsulating, repair, enclosure, or an operations and maintenance program. The response action is determined depending on the severity and nature of the individual problem.

No friable or non-friable suspect asbestos containing materials were noted during the inspection other than roofing materials. However, due to proposed demolition of the building, an asbestos survey should be conducted and must be conducted prior to demolition.

A full asbestos inspection was not completed, as it is beyond the scope of this report.

2.12 SUSPECT LEAD-BASED PAINT

Use of lead in household paint was banned by the USEPA effective January 1, 1978. The USEPA and the U.S. Department of Housing and Urban Development (HUD) consider lead-based paint as containing a lead concentration equal to or greater than 1.0 milligram per square centimeter (mg/cm^2) or 0.5% lead by weight, as defined by Title X of the 1992 Housing and Community Development Act.

Due to the age of the building, lead-based paint may be present within the Subject Building. The majority of the painted surfaces were being re-painted during ***LEA's*** inspection and were observed to be in excellent condition. A lead based survey should be conducted prior to demolition or renovations.

A full lead-based paint inspection was not completed, as it is beyond the scope of this report. Based on ***LEA's*** limited observations, no suspect lead-based paint surfaces were considered to be peeling or chipping at the time of the site inspection. Caution is recommended if renovations and/or remolding of this facility are to take place. Worker safety should be considered during any future site renovations and/or demolition.

2.13 WATER DAMAGE AND MOLD GROWTH

Humidity or wetness, caused by water leaks, spills from plumbing failures, or condensation, can cause mold growth on interior and exterior surfaces; including but not limited to walls, ceilings, carpets, or furniture. Mold is a living organism that produces mold spores through reproduction. These spores are tiny particles that drift through the air until finding wet, humid areas in which they thrive. Although mold does not affect everyone it can cause health problems when inhaled. Mold can trigger asthma attacks, and some produce toxins that may be hazardous if people are exposed to large quantities of these molds. Mold spores and related *mycotoxins* can also pose a serious health threat to individuals who have compromised immune systems.

A full mold inspection was not requested or completed as part of this assessment, as it is beyond the scope of this report. Based on ***LEA's*** limited observations, there was no visible evidence of mold and/or mold related odors at the time of the site inspection. It should be noted that mold may be present in hidden areas not observed during ***LEA's*** site reconnaissance. Of particular concern would be areas that experience water damage and areas of high humidity. Caution should be taken following any future water release within the Subject Building. Water leaks and water damage should be addressed immediately to help prevent the formation of mold spores. Visual evidence of mold should be addressed immediately by professional remediation contractors hired to address such issues.

2.14 WETLANDS AND NYSDEC ECOLOGICAL ZONE

For regulatory purposes under the Clean Water Act, the term wetlands means "those areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include streams, swamps, marshes, bogs, and similar areas". The New York State Official Tidal Wetlands Inventory is maintained by the New York State Department of Environmental Conservation (NYSDEC) Bureau of Marine Resources in the Tidal Wetlands Inventory and Geographic Information System (GIS) Unit. The statutory definition of a tidal wetland can be found in New York's Environmental Conservation Law, Article 25, entitled "Tidal Wetlands Act."

According to maps provided by the NYSDEC, the Subject Property does not reside within a fresh water or tidal wetlands area. An inspection of the Subject Property by ***LEA*** did not observe the presence of wetlands within its boundaries. There are no documented wetlands located within a ¼-mile radius of the Subject Property.

ZONE I - COASTAL LOWLANDS

Geology	This zone is a terminal moraine of the great ice sheet. Topographic relief is low.
Elevation	Ranges from sea level to 200 feet
Soils	The soils are glacial outwash and deltaic sands medium to moderately coarse-textured on gravel and recent alluvium. The soils tend to the strongly acid and are of low fertility.
Vegetation	All of the Coastal Lowlands are included in the oak natural vegetation zone. Much of the forest is scrubby due to the poor soils. Oak is the principal hardwood tree, while pitch pine is the principal conifer.
Land Use	This zone continues to experience a rapid expansion of urban and suburban development.

This Data Set shows boundaries of the Ecological Regions (Ecozones) of New York State and has been modified by ***LEA***.

2.15 RADON

Radon is a heavy, colorless, odorless, radioactive gas formed by the radioactive decay of radium. Radon is associated with specific geologic formations that contain granite, uranium minerals, certain shales, and phosphate related minerals. Radon, being a gas, can migrate to and accumulate in confined spaces such as building basements. Continued exposure to radon gas has been associated with increased lung cancer risk and possible genetic damage.

The USEPA has set a maximum action level of 4 picocuries per liter (pCi/l) in air. At concentrations above this level, the USEPA recommends remedial measures to lower the concentrations.

According to monitoring data completed by the NYS Department of Health, Bureau of Radiation Protection, the Kings County has an average indoor radon concentration of 0.6 pCi/l. Given this information, radon is not considered a significant environmental concern within the Subject Building.

2.16 ELECTROMAGNETIC FIELDS

Although there are currently no regulations concerning the proximity of residential structures to major sources of electromagnetic fields (EMFs) such as overhead high tension wires, high levels of EMFs are an unresolved public health issue. Some recent studies have linked the presence of elevated EMFs to an increased risk of certain cancers and other illnesses. Although studies are ongoing and no definitive conclusions have been reached, the existing evidence indicates that potential health risks may exist for individuals who are exposed to these fields. In any case, the general perception of a risk associated with major sources of EMFs can reduce the marketability and value of real estate.

No high tension wires or substations were noted on or adjacent to the Subject Property.

2.17 NEIGHBORING PROPERTIES

The properties surrounding the Subject Site are residential and commercial in nature. Property usage directly adjoining or nearby is as follows:

North of the Subject Site:	***Current Usage***	***Past Usage***
• Nondescript mixed-use, adjoining	Mixed use	Mixed use
• Dwelling	Residential	Residential
South of the Subject Site:		
• Dwelling, adjoining	Residential	Residential
East of the Subject Site:		
• Manhattan Avenue, adjoining	Roadway	Roadway
• Tony's Auto Body	Commercial	Commercial
West of the Subject Site:		
• Dwellings	Residential	Residential
• Kalmon Dolgin, adjoining	Real Estate Office	Commerical

Due to the mixed nature the surrounding properties, they may have the potential to present a recognized environmental condition at the Subject Property. None of the adjoining properties are currently listed on the NYSDEC or the USEPA databases.

3.0 CLIENT PROVIDED DOCUMENTS

The following section summarizes information provided by the client, Chris Cielepak, with regard to this Phase I ESA. ***LEA*** staff completed the Questionnaire pertaining to the site inspection, which can be found in Appendix H of this report. The Questionnaire is intended to assist in gathering information that may be pertinent to identifying recognized environmental conditions relating to the Subject Property.

3.1 TITLE RECORDS

Land title records provide information on previous ownership of a property. Typically, deeds signifying transfer of a land parcel are recorded in county files and can be researched to determine the identity of past owners. A "Chain of Title" is a continuous record of ownership for a specific parcel. Title record information associated with the Subject Property has not been provided to ***LEA*** by Chris Cielepak, and is beyond the scope of this report.

3.2 ENVIRONMENTAL LIENS, ACTIVITY, AND USE LIMITATIONS

Chris Cielepak has provided no information regarding environmental liens, activity, or use limitations in connection with the Subject Property.

3.3 SPECIALIZED KNOWLEDGE

Chris Cielepak has provided no specialized knowledge that pertains to recognized environmental conditions in connection with the Subject Property. ***LEA*** was not provided with or made aware of previous environmental assessments or other documentation that is material to recognized environmental conditions in connection with the Subject Property, except as present.

3.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

Chris Cielepak has provided ***LEA*** with no commonly known or reasonably ascertainable information within the local community about the environmental integrity of the Subject Property.

3.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

Chris Cielepak has provided no information to ***LEA*** regarding valuation reduction for environmental issues in connection with the Subject Property.

3.6 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

Chris Cielepak provided ***LEA*** with contact information for access to the Subject Property. The site inspection was conducted assisted by Karen, a representative of the property owner.

3.7 REASON FOR PERFORMING THIS PHASE I ESA

Chris Cielepak retained ***LEA*** to complete this Phase I Environmental Site Assessment in connection with a real estate transaction.

4.0 REVIEW OF REGULATORY AGENCY RECORDS AND DOCUMENTS

To determine if the Subject Property was listed, known, or suspected of being a hazardous waste site, federal and state databases were reviewed. In addition, a Freedom of Information Letter (FOIL) was sent to the New York City Department of Environmental Protection (NYCDEP) requesting a review of any records that may have been maintained by the agencies concerning the Subject Property.

The records search was conducted by Toxics Targeting, Inc. meeting the specific requirements of ASTM Standard Practice for Environmental Site Assessments, E-1527-05, including those associated with governmental databases, search distances, and data currency.

4.1 USEPA NATIONAL PRIORITY LIST AND CERCLA SITES

4.1.1 USEPA NPL Superfund Sites

The USEPA maintains a database of unmanaged and/or forsaken hazardous waste sites. The database is known as the National Priority List (NPL). Sites included in this list are given priority by the USEPA for remedial action under the Federal Superfund Program. A particular site will be included on the NPL if it equals or exceeds an established "hazard classification system" score, or if it was designated as a top environmental priority site, in a particular State. A site is classified as an NPL site if all of the following criteria are satisfied:

1. The U.S. Department of Health & Human Services issues a health advisory recommending that people be evacuated from the site to avoid exposure.
2. The USEPA determines that the site was a potentially significant environmental hazard.
3. The USEPA determines that site remediation was more cost-effective than removal.

There is one NPL listed site located within a one-mile radius of the Subject Property. Newtown Creek, ID# NYN000206282, is located 4,730 feet hydraulically down-gradient. Remediation is underway but not yet complete. Due to the hydraulic location relative to the Subject Property this site should not present a recognized environmental condition.

4.1.2 USEPA CERCLA Sites

The USEPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 was designed to allow the federal government to directly address any potential release of hazardous waste that may endanger public health or welfare; in order to "provide for liability, compensation, clean-up, and emergency response for hazardous substances released into the environment and clean-up of inactive hazardous waste disposal sites".

Examination of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database indicates that the Subject Site is not listed in the CERCLIS database. There is one CERCLIS listed site located within a ½-mile radius of the Subject Property. City Barrel, ID# NYD068298835, located 198 feet hydraulically side-gradient, is listed as having no further remedial action planned. Due to the hydraulic location and status of this facility, it should not present a recognized environmental condition to the Subject Property.

4.2 NYSDEC INACTIVE HAZARDOUS WASTE DISPOSAL SITES

The NYSDEC publishes a quarterly and annual report entitled "Inactive Hazardous Waste Disposal Sites in New York State" (IHWD), 2011, which lists all properties that have been found to contain, or are suspected of containing, significant amounts of hazardous or toxic contamination in one form or another.

The Subject Property is not listed as an IHWD site. There are eighteen (18) listed IHWD sites within a one-mile radius of the Subject Property, all of which are located hydraulically side and/or down-gradient and should not present recognized environmental condition to the Subject Property.

4.3 NYSDEC HAZARDOUS SUBSTANCE WASTE DISPOSAL SITES

The NYSDEC Hazardous Substance Waste Disposal Sites (HSWD) database was reviewed to determine if the Subject Property or any site located within a one-mile radius of the Subject Property is listed as a HSWD Site. This database lists properties that are currently under study by the NYSDEC Division of Hazardous Waste Remediation, for inclusion into the IHWD program, as described in section 4.2.

The Subject Property is not listed as a HSWD site. There is one listed HSWD site located within a one-mile radius of the Subject Property. City Barrel, Registry ID# N, located 188 feet hydraulically side-gradient, has an unknown remedial status. Based upon the hydraulic location this facility, relative to the Subject Property, it should not present a recognized environmental condition.

4.4 NYS BROWNFIELDS SITES

The New York State (NYS) Brownfields Program was developed for sites that are abandoned, idle, or under-used industrial and/or commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination. Programs included in the 2011 Brownfields Cleanup Program (BCP) are the Voluntary Cleanup Program (VCP) and the Environmental Restoration Program (ERP).

After a thorough investigation, it was determined that neither the Subject Property nor any property within a one-mile radius is listed as a Brownfields site.

4.5 NYS LANDFILLS AND SOLID WASTE FACILITIES

The database of NYS Landfills and Solid Waste facilities identified no such sites located within a ½-mile radius of the Subject Property.

4.6 NYSDEC SPILL AND LEAKING UST FILE

The NYSDEC Spill File was investigated for records of spills and leaking USTs located within a ½-mile radius of the Subject Property. A summary is presented in the table below:

NYSDEC Active Spills and Leaking USTs
Brooklyn, New York, within a ½-mile radius of the Subject Property

NYSDEC Spill #	Spill Type	Spill Name	Spill Location	Distance (feet)/ Direction from Site*
9703488	Leaking UST/spill to soil	Engine Co. 229 FDNY-DDC	76 Richardson Street	558/side
9007766	Leaking UST/spill to soil	Mobil S/S #17-FX9	550 Humboldt Street	996/side
1011266	Leaking UST/spill to soil	Sunoco Service Station	550 Humboldt Street	996/side
1205075	Spill to soil	John Huley	498 Leonard Street	1,245/down
0750535	Leak to soil	N 11th Street Sidewalk	204-214 North 11th Street	1,810/side
8908110	Spill to soil	Mobil	51 Kingsland Avenue	1,825/side
0703695	Spill to soil	Commercial Property	454 Driggs Avenue	1,930/down
0503901	Spill to soil	Property	55 Roebling Street	2,084/side
0330060	Spill to soil	Wolf Petroleum Corp	2 Bushwick Avenue	2,099/side
0208256	Spill to soil	99 Cent Store (Dollar Up Store)	640 Manhattan Avenue	2,164/down
0611495	Spill to soil	169-175 North 10th Street	169-175 North 10th Street	2,222/side
9502757	Leaking UST/spill to soil	Hess-Merit Station 32522	810 Metropolitan Avenue	2,241/side
9103785	Leaking UST/spill to soil	Feeder 61	Meeker Avenue & Leonard Street	564/side
0808463	Spill to soil	Construction Site	95 Bedford Avenue	2,130/side

*Direction noted is in relation to the hydraulic gradient of the groundwater flow.

4.6.1 NYSDEC On-Site Listed Spills and Leaking Underground Storage Tanks

There are no closed or active NYSDEC listed spills or leaking underground storage tanks (USTs) located at the Subject Property.

4.6.2 NYSDEC Off-Site Listed Spills

There are eight active NYSDEC listed spills located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

4.6.3 NYSDEC Off-Site Listed Leaking Underground Storage Tanks

There are six active NYSDEC listed leaking USTs located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

4.7 NYSDEC REGISTERED CHEMICAL BULK STORAGE, MAJOR OIL STORAGE, AND PETROLEUM BULK STORAGE FACILITIES

The NYSDEC publishes a listing of all registered Chemical Bulk Storage (CBS), Major Oil Storage (MOS), and Petroleum Bulk Storage (PBS) Facilities in New York State, every year. This listing was investigated to determine whether the Subject Property or any adjoining properties are listed as such facilities.

After a thorough investigation, it was determined that neither the Subject Property nor any adjoining property is listed at the NYSDEC as a CBS, MOS, or PBS Facility.

4.8 NYS AND USEPA RCRA HAZARDOUS WASTE GENERATORS, TRANSFER, STORAGE, AND DISPOSAL SITES AND CORRACT SITES

Resource Conservation and Recovery Act (RCRA) 42 U.S.C. §6901 et seq. (1976) The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

4.8.1 NYS and USEPA RCRA Generators

The NYS and USEPA listing of Resource Conservation and Recovery Act (RCRA) Hazardous Waste Generators, dated 2011, was reviewed to determine whether the Subject Property or any adjoining properties are listed as State Facilities. After a thorough investigation, it was determined that neither the Subject Property nor any adjoining property is listed as a RCRA Hazardous Waste Generator.

4.8.2 NYS and USEPA RCRA TSD Sites and CORRACT Sites

The NYS and USEPA 2011 listing of Resource Conservation and Recovery Act (RCRA) Facilities with Corrective Actions (CORRACTs) and the NYSDEC 2010 listing of RCRA Treatment, Storage, and Disposal (TSD) Sites was reviewed to determine whether the Subject Property or properties within a one-mile radius are listed as state or federal facilities. After a thorough investigation, it was determined that neither the Subject Property nor any property within a one-mile radius is listed as a RCRA TSD or CORRACT site.

4.9 USEPA EMERGENCY RESPONSE NOTIFICATION SYSTEM

The USEPA maintains a database of all spills to which the agency has responded. This database was investigated to determine the presence of an emergency response at the Subject Property.

After an investigation according to street address, it was determined that the Subject Property is not listed on the ERNS database.

4.10 USEPA TOXIC RELEASE INVENTORY SITES

Section (§) 313 of the Emergency Planning and Community Right-to-Know Act (also known as Title III) of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (Public Law 99-499) requires the USEPA to establish an inventory of toxic chemical emissions from certain facilities. The reporting requirement applies to owners and operators of facilities that have ten or more full-time employees that are in Standard Industrial Classification (SIC) codes 20 through 39 (i.e., manufacturing facilities) and that manufacture, import, process, or otherwise use a listed toxic chemical in excess of specified threshold quantities. Inclusion in the list does not necessarily indicate that there has been a release of a toxic material to the environment at the site, only that listed chemicals have been used.

After a thorough investigation, it was determined that neither the Subject Property nor any property within a ¼-mile radius is listed as a TRI Facility.

4.11 NYS WASTEWATER DISCHARGE SITES

Wastewater treatment is one of the most common forms of pollution control. Its basic function is to speed up the natural purification processes. In many instances wastewater treatment is a two-stage process. In the primary stage of wastewater treatment, solids are allowed to settle and are then removed from wastewater. The secondary stage allows biological processes to further purify wastewater. The NYSDEC database identifies nearby Wastewater Discharge Facilities.

After a thorough investigation, it was determined that neither the Subject Property nor any property within a ⅛-mile radius is listed as a Wastewater Discharge Site.

4.12 USEPA AIR DISCHARGE SITES

The USEPA Aerometric Information Retrieval System (AIRS) database lists information on each air emission facility and indicates the type of air pollutant emission. Compliance information is also provided on each pollutant as well as the facility itself.

There is one site located within a ¼-mile of the Subject Property listed as an Air Discharge Site. Elli Woodworking Industries, ID# 36047P0003, located 595 feet north of the Subject Site, is listed as releasing sip source VOCs. The facility is in operation and with active violations regarding both emissions and procedural compliance. Due to the resource affected and lack of traceability, no determination can be made as to the environmental threat to the Subject Property.

4.13 USEPA CIVIL AND ADMINISTRATIVE ENFORCEMENT DOCKET FACILITIES

This Civil and Administrative Enforcement Docket database is the USEPA's system for tracking administrative and judiciary cases filed on behalf of the agency by the Department of Justice.

There is one property located within a ⅛-mile radius listed as a Civil & Administrative Enforcement Docket sites. NYC BD of ED-Junior High School, ID #NY0000379990 is in violation of asbestos. This case was concluded in 1999 and should not present a recognized environmental condition at the Subject Property.

4.14 FEDERAL ENGINEERING CONTROL AND INSTITUTIONAL CONTROL REGISTRIES

The completion of site cleanup activities may include the implementation of engineering controls or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the instructional controls.

Neither the Subject Property nor any property located within a ½-mile radius of the Subject Property was identified on Federal Engineering Control or Institutional Control Registries.

4.15 TRIBAL LANDS

There are no Tribal Lands within a one-mile radius of the Subject Property. This was further confirmed by a search of Federal and State Tribal Land records, please refer to Figure 8.0.

4.16 ORPHAN SITES

Orphan Sites are facilities that have been identified on the Toxics Targeting Inc. (TTI) Environmental Database Report; however, due to poor or inadequate address information, the facilities could not be mapped by TTI with relation to the Subject Property. Orphan Sites identified on the Database Report were reviewed, and none appear to be located at the Subject Property.

4.17 REGULATORY AGENCY DOCUMENTS REQUESTS

On February 26, 2013, ***LEA*** mailed a request to the New York City Department of Environmental Protection (NYCDEP) to view any records pertaining to the environmental condition of the Subject Property under the Freedom of Information Act (FOIA).

On April 8, 2013, ***LEA*** received a response dated March 22, 2013, from the NYCDEP stating that no files are maintained pertinent to the environmental condition of the Subject Property.

5.0 SITE HISTORY

According to the New York City Department of Building records, the NYCDEP, and Select Phone Directory listings, past and present uses of the Subject Property are as follows:

1887	According to Sanborn Fire Insurance Maps, the Subject Building was constructed circa 1887 as a two-story residential dwelling.
1920	According to the NYC Building Department, the estimated construction date for the Subject Property is circa 1920.
2005	The Subject Property was given to NYC E-Designation Listings: E-138 HAZMAT (for underground gasoline storage tanks) and E-138 AIR (for air quality-operable window limitations).

Prospective Purchaser Representative Interview:
Is not applicable as the property is not for sale.

Owner Interview:
According to Chris Cielepak's (property owner) partner Hubert (last name not provided), the plan is to construct a multi-family residential apartment on the Subject Property along with an underground parking facility. Prior to redevelopment, the property will be rented out on a month to month basis.

Historical Usage Summary:
The Subject Property has been occupied since at least 1887 for multi-family residential purposes. Past usage of the Subject Site should not present a recognized environmental condition at the Subject Property.

5.1 CITY DIRECTORIES

City directories are reference books published yearly for most major metropolitan areas and contain listings of businesses and landowners by name and address. City directories are useful in determining the historical use and/or occupant(s) of a given property. ***LEA*** contacted Environmental Data Resources, Inc. (EDR) to provide a summary of City Directories available to them for addresses located along Manhattan Avenue. The EDR City Directory Abstract included listings from 1928-2012

A synopsis of EDR's City Directory is as follows:

Year	Listing
1928	- Cacioppo Jos Electrician - Spiro Allen
1960	- Bianculli Mary - Marotta Albert
1970	- Bianculli Mary
1976	- Casanova Stephanie
1985	- Casanova Stephanie
1992	- Slavov Aniela - Talalaj Czeslaw
1997	- Aleksandrowtcz Stanislaw - Pompa Gustav - Slavov Aniela
2000	- Alexander Plecenik - Aniela Slavov - August Wicek - Ryszard Clesielska
2005	- Plecenik Alexander - Wiacek Augustyn

5.2 SANBORN FIRE INSURANCE MAP REVIEW

Sanborn® Fire Insurance Maps are an additional source of historical use information available for most developed areas. The maps were used for insurance purposes and indicate structures by name, type of construction, property usage, and address. ***LEA*** contracted EDR for a search of Sanborn Fire Insurance Maps adequate for the Subject Property and surrounding areas. According to Sanborn Historical Maps reviewed from 1887 - 2007, past uses of the Subject Site and surrounding properties are as follows:

Date	Subject Property	Surrounding Properties			
		North	South	East	West
1887	Maintains a two-story dwelling with the same footprint as seen today	Undeveloped; Dwellings	Undeveloped; Meeker Avenue	Manhattan Avenue; Stable; Stores	Undeveloped
1905	Maintains the same two-story dwelling. A stable is now located on the northwest quadrant of the Property	Dwellings	Junkyard; Stores; Meeker Avenue	Manhattan Avenue; Stores; Bottle Storage	Undeveloped
1916	No Change	Barrel Storage; Dwellings	Rags & Paper; Dwellings; Stores; Meeker Avenue	Manhattan Avenue; Stores	Undeveloped
1942	The Subject Property doubled in size, expanding west. The stable is gone and replaced by a shed labeled 'old'	1 ½-story Garage; Stores and Dwellings	No Change	No Change	Lumber Yard
1951	No change to the Building. The 'old shed' is gone.	Dwellings and Stores	No Change	No Change	Dry Kilns; Wood Working Shop
1965	No Change	Factory; Stores; Dwellings	No Change	No Change	Parking
1978 To Present	No Change	No Change	No Change	No Change	Manufacturing

5.3 HISTORICAL TOPOGRAPHIC MAP REVIEW

Historical Topographic Maps are an additional source of useful information regarding historical site usage. The maps are generated and updated by the United States Geological Survey (USGS). Scale for the maps ranged from 1:24,000 to 1:62,500. The general elevation of the Subject Site and surrounding areas was noted as approximately 17 feet above sea level. ***LEA*** maintains Historical Topographic Maps in their Historical Database adequate for the Subject Property and surrounding areas.

A review of a historical topographical map from 1900 and 1967 did not show detailed information as to historical structures and usage of the Subject Property.

5.4 HISTORICAL AERIAL PHOTOGRAPH REVIEW

Aerial Photographs are often taken annually or bi-annually by government agencies or private entities and may be used to evaluate changes in land use patterns at specified dates to identify visible areas of potential environmental concern. A search for historical aerial photographs depicting the Subject Property and vicinity was conducted by ***LEA***. It should be noted that the scale of the available aerial photographs precludes the distinct identification of structures and/or land uses on or in the vicinity of the Subject Property.

A review of an aerial photograph from 1994 showed the following:

Based upon the scale of the aerial photographs, on-site operations could not be identified.

5.5 NYC ACRIS RECORDS

The NYC Automated City Register Information System (ACRIS) maintains property records and document images for the five boroughs from 1966 to the present. The database was searched and is included in the table below.

Reel/Pg/File	CRFN	Lot	Partial	Recorded / Filed	Document Type	Pages	Party1	Party2
	2013000022506	30	ENTIRE LOT	1/16/2013 2:35:27 PM	DEED	5	GUIDICE, ROSEMARIE B	GUIDICE, ROSEMARIE B
	2005000508690	30	ENTIRE LOT	9/13/2005 9:13:57 AM	DEED	4	415 MANHATTAN AVENEUE CORP.	GUIDICE, TENANTS IN COMMON , MICHAEL
5913/1414		30	ENTIRE LOT	11/25/2002	DEED	3	GUIDICE, MICHAEL	415 MANHATTAN AVE CORP
1942/1269		30	ENTIRE LOT	12/24/1986	MORTGAGE	7	GUIDICE, MICHAEL	POLISH &SLAVIC FED CRED
1942/1267		30	ENTIRE LOT	12/24/1986	DEED	2	CASANOVA, STEPHANIE/EXEC	GUIDICE, MICHAEL
610/1558		30	ENTIRE LOT	1/29/1973	DEED	2	MAROTTA ALBERT	CASANOVA STEPHANIE
562/681		30	ENTIRE LOT	6/13/1972	MORTGAGE	4	MAROTTA ALBERT	BIANCULLI MARY
562/679		30	ENTIRE LOT	6/13/1972	DEED	2	BIANCULLI MARY	MAROTTA ALBERT
273/278		30	ENTIRE LOT	10/21/1966	MORTGAGE	8	SANTELLI JOHN O	SANTORELLI ROSE M

5.6 LITTLE E DESIGNATION SITES

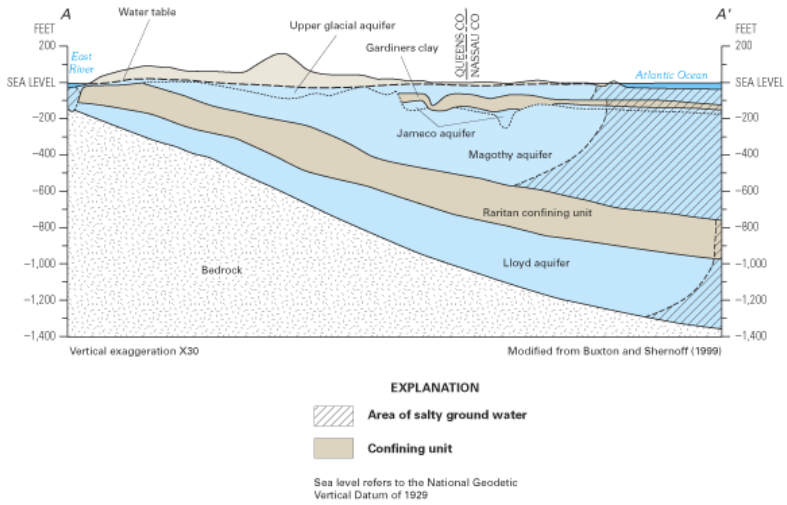
Lots designated with an "E" on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts. The NYC records were searched thoroughly and ***LEA*** has determined the Subject Property is designated as a Little "E" site. This site is listed twice as an E-Designation site: E-138, Hazmat for underground gasoline storage tanks testing protocol and E-138-Noise for air quality operable window limitations. Both E-Designation listings were issued on May 11, 2005.

6.0 FAIR MARKET VALUE

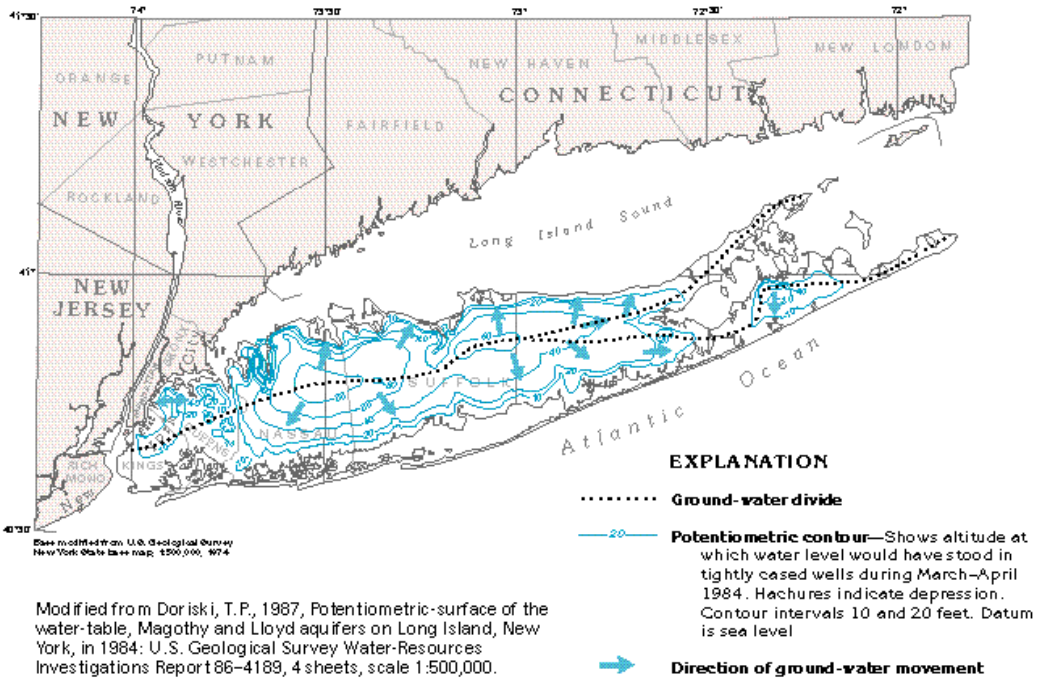
The Subject Property is not for sale; therefore an evaluation of the environmental integrity of the property cannot be made based upon market value.

7.0 SITE HYDROGEOLOGY

Kings County is located in the Atlantic Coastal Plain physiographic province that is characterized by low hills of unconsolidated sands, gravel, and silt. According to Franke (1972), regionally, the near-surface sediments consist of the Upper Glacial deposits that are characterized by southward sloping deposits of sand, gravel, and silt. The Upper Glacial deposits have a maximum thickness of 600 feet. They are underlain by the Magothy, Raritan, and Lloyd Formations. The Gardeners clay and the Jameco gravel separate the Upper Glacial deposits and the Magothy Formation along the southwest portion of Long Island. Due to less surfacial contamination and higher well yields, the Magothy aquifer is the main supply for drinking and industrial water. Consequently, the USEPA has identified it as a Sole Source Aquifer. The Subject Site is in the Upper Glacial aquifer. Pump test data suggests hydraulic conductivity between the Magothy and Upper Glacial aquifers. However, discontinuous clay lenses may prevent this interaction in some areas.



According to groundwater contour maps provided by the NYCDEP and the NYSDEC, Topographic Quadrangles provided by the USGS, and previous work performed by ***LEA*** in the area, the Subject Property has an elevation of approximately 17 feet above mean sea level. Regional groundwater is estimated to be less than ten feet below grade at the Subject Property and flowing in a northwesterly direction, towards the East River. A site specific hydrogeologic study is warranted to confirm localized on-site groundwater flow direction, which is beyond the scope of this report.



Modified from Doriski, T.P., 1987, Potentiometric-surface of the water-table, Magothy and Lloyd aquifers on Long Island, New York, in 1984: U.S. Geological Survey Water-Resources Investigations Report 86–4189, 4 sheets, scale 1:500,000.

Figure 72. The potentiometric surface of the upper glacial aquifer slopes gently to the north and south from a central high, except in the western part of the island where ground-water withdrawals have lowered the water table and created cones of depression.

7.1 GROUNDWATER USE

No active drinking water wells were noted at the Subject Property or at any of the adjoining sites during the site inspection, although it remains possible that private wells exist. The Subject Building, as well as the buildings in the vicinity of the Subject Site, is served with municipal water from the City of New York. Groundwater is not utilized for any purpose at the Subject Site. ***LEA*** did not observe any monitoring wells at the Subject Property at the time of our site reconnaissance.

8.0 SUMMARY OF FINDINGS FROM RECONNAISSANCE AND RESEARCH

Based on the completion of the Phase I Environmental Site Assessment, ***Laurel Environmental Associates, Ltd.*** has come to the following conclusions:

- The Subject Property maintains one (1) two-story walk up three family residential dwelling with a footprint of approximately 800 square feet situated on a parcel approximately 2,500 square feet in area. The building was constructed circa 1887 for residential purposes and fronts along Manhattan Avenue. The site is relatively flat, covered with the building, a partially paved rear yard, concrete sidewalks and a side fire egress. The Subject Property is located in a residential and commercial area of the Williamsburg Section of Brooklyn, New York.

- The building is serviced with public water from the City of New Yorkand with electricity and natural gas from Consolidated Edison. The Subject Building is heated by three natural gas fired burners located in the basement.

- Housekeeping was noted to be fair throughout the building and grounds-typical of a vacant building undergoing minor renovations.

- The Subject Property maintains a grass yard located on the west side of the Subject Property, observed to be relatively healthy with no signs of obvious distress.

- Sanitary waste has been handled by public sewer since construction of the Subject Building circa 1887. Based on the historical usage as a residence, any discharge into a possible on-site sanitary system does not pose a significant environmental condition.

- Storm water and roof run-off is handled by natural drainage and runoff to Manhattan Avenue.

- No floor drains were noted in the Subject Building during the on-site inspection.

- The Subject Property was recently vacated and undergoing renovations.

- The Subject Property has been used for residential purposes since construction circa 1887.

- No chemical storage was noted within the Subject Building or on the grounds during the on-site inspection. Former chemical storage is assumed to have been limited to typical housekeeping supplies.

- No biohazardous waste is generated or stored at the Subject Property.

- No drum storage was noted during the site inspection.

- No fill ports and/or vent pipes, which indicate the presence of USTs or ASTs, were noted at the Subject Property at the time of the site inspection. Based upon our site reconnaissance, interviews, and review of state and local records, LEA identified no evidence of existing USTs or ASTs at the Subject Property. Based upon the age of the building, heat was most likely supplied by coal prior to conversion to either an oil-fired system or natural gas.

- No emergency generators and associated tanks were observed during our site reconnaissance.

- There are no pad or pole-mounted transformers located at the Subject Property. The building is illuminated with fluorescent and incandescent lighting. Light ballasts may contain PCBs given the buildings age.

- No friable or non-friable suspect asbestos containing materials were noted during the inspection other than roofing materials. However, due to proposed demolition of the building, an asbestos survey should be conducted and must be conducted prior to demolition.

- Due to the age of the building, lead-based paint may be present within the Subject Building. The majority of the painted surfaces were being re-painted during LEA's inspection and were observed to be in excellent condition. A lead based survey should be conducted prior to demolition or renovations.

- Based on ***LEA's*** limited observations, there was no visible evidence of mold and/or mold related odors at the time of the site inspection.

- According to maps provided by the NYSDEC, the Subject Property does not reside within a fresh water or tidal wetlands area. An inspection of the Subject Property by LEA did not observe the presence of wetlands within its boundaries. There are no documented wetlands located within a ¼-mile radius of the Subject Property.

- According to monitoring data completed by the NYS Department of Health, Bureau of Radiation Protection, the Kings County has an average indoor radon concentration of 0.6 pCi/l. Given this information, radon is not considered a significant environmental concern within the Subject Building.

- No high tension wires or substations were noted on or adjacent to the Subject Property.

- Due to the mixed nature the surrounding properties, they may have the potential to present a recognized environmental condition at the Subject Property. None of the adjoining properties are currently listed on the NYSDEC or the USEPA databases.

- There is one NPL listed site located within a one-mile radius of the Subject Property. Newtown Creek, ID# NYN000206282, is located 4,730 feet hydraulically down-gradient. Remediation is underway but not yet complete. Due to the hydraulic location relative to the Subject Property this site should not present a recognized environmental condition.

- Examination of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database indicates that the Subject Site is not listed in the CERCLIS database. There is one CERCLIS listed site located within a ½-mile radius of the Subject Property. City Barrel, ID# NYD068298835, located 198 feet hydraulically side-gradient, is listed as having no further remedial action planned. Due to the hydraulic location and status of this facility, it should not present a recognized environmental condition to the Subject Property.

- The Subject Property is not listed as an IHWD site. There are eighteen (18) listed IHWD sites within a one-mile radius of the Subject Property, all of which are located hydraulically side and/or down-gradient and should not present recognized environmental condition to the Subject Property.

- The Subject Property is not listed as a HSWD site. There is one listed HSWD site located within a one-mile radius of the Subject Property. City Barrel, Registry ID# N, located 188 feet hydraulically side-gradient, has an unknown remedial status. Based upon the hydraulic location this facility, relative to the Subject Property, it should not present a recognized environmental condition.

- After a thorough investigation, it was determined that neither the Subject Property nor any property within a one-mile radius is listed as a Brownfields site.

- The database of NYS Landfills and Solid Waste facilities identified no such sites located within a ½-mile radius of the Subject Property.

- There are no closed or active NYSDEC listed spills or leaking underground storage tanks (USTs) located at the Subject Property.

- There are eight active NYSDEC listed spills located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

- There are six active NYSDEC listed leaking USTs located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

- After a thorough investigation, it was determined that neither the Subject Property nor any adjoining property is listed at the NYSDEC as a CBS, MOS, or PBS Facility.

- After a thorough investigation, it was determined that neither the Subject Property nor any adjoining property is listed as a RCRA Hazardous Waste Generator.

- After a thorough investigation, it was determined that neither the Subject Property nor any property within a one-mile radius is listed as a RCRA TSD or CORRACT site.

- After an investigation according to street address, it was determined that the Subject Property is not listed on the ERNS database.

- After a thorough investigation, it was determined that neither the Subject Property nor any property within a ¼-mile radius is listed as a TRI Facility.

- After a thorough investigation, it was determined that neither the Subject Property nor any property within a ⅛-mile radius is listed as a Wastewater Discharge Site.

- There is one site located within a ¼-mile of the Subject Property listed as an Air Discharge Site. Elli Woodworking Industries, ID# 36047P0003, located 595 feet north of the Subject Site, is listed as releasing sip source VOCs. The facility is in operation and with active violations regarding both emissions and procedural compliance. Due to the resource affected and lack of traceability, no determination can be made as to the environmental threat to the Subject Property.

- There is one property located within a ⅛-mile radius listed as a Civil & Administrative Enforcement Docket sites. NYC BD of ED-Junior High School, ID #NY0000379990 is in violation of asbestos. This case was concluded in 1999 and should not present a recognized environmental condition at the Subject Property.

- Neither the Subject Property nor any property located within a ½-mile radius of the Subject Property was identified on Federal Engineering Control or Institutional Control Registries.

- There are no Tribal Lands within a one-mile radius of the Subject Property. This was further confirmed by a search of Federal and State Tribal Land records, please refer to Figure 8.0.

- On April 8, 2013, **LEA** ***received*** a response dated March 22, 2013, from the NYCDEP stating that no files are maintained pertinent to the environmental condition of the Subject Property.

- Past usage of the Subject Site should not present a recognized environmental condition at the Subject Property.

- A review of a historical topographical map from 1900 and 1967 did not show detailed information as to historical structures and usage of the Subject Property.

- Based upon the scale of the aerial photographs, on-site operations could not be identified.

- The Subject Property is not for sale; therefore an evaluation of the environmental integrity of the property cannot be made based upon market value.

- According to groundwater contour maps provided by the NYCDEP and the NYSDEC, Topographic Quadrangles provided by the USGS, and previous work performed by LEA in the area, the Subject Property has an elevation of approximately 17 feet above mean sea level. Regional groundwater is estimated to be less than ten feet below grade at the Subject Property and flowing in a northwesterly direction, towards the East River.

9.0 CONCLUSIONS

Based on the information developed and provided as part of this Phase I Environmental Site Assessment, ***LEA*** has reached the following conclusions regarding recognized areas of environmental concern at the Subject Property, 415 Manhattan Avenue, Brooklyn, New York 11222:

Recognized Environmental Conditions	***Potential Impacts***
• E-Designation	High Risk
• Potential former USTs	Low Risk
• Possible Asbestos Containing Materials	Low Risk
• Lead based paints	Low Risk

10.0 RECOMMENDATIONS

Based on the above conclusions ***LEA*** recommends the following:

1. Conduct a Geophysical Survey to check for possible USTs or other anomalies at the site.
2. Utilizing a 420M Limited access Geoprobe conduct at least five soil borings within the property boundary to determine the soil conditions.
3. Utilizing a 420M Geoprobe collect groundwater from three locations to determine groundwater quality and flow direction.
4. Conduct a soil vapor survey, with two subslab, one indoor and one outdoor air samples to determine the soil vapor and air quality on-site.
5. An asbestos survey must be conducted prior to demolition.
6. Submit all samples to a NYS Certified laboratory.
7. Review results and write a report with remedial objectives clearly outlined.
8. Submit data and report the NYC OER offices for review.

Opinion of Impacts

The environmental professionals who have conducted the site visit and reviewed the results of the data collection effort have concluded that the aforementioned are "recognized environmental conditions". The recognized environmental conditions have been quantified based on a range of qualitative impacts on the soil, water, and air resources or structures on the Subject Property.

As per our contractual agreement, ***LEA*** has provided recommendations for further study above. It is up to the user of this report, based on the individuals risk tolerance, fiduciary responsibility, or the applicable law, to determine the extent of further inquiry.

11.0 LIMITATIONS

The purpose of this investigation was to identify potential sources of contamination at the Subject Property and to satisfy all appropriate inquiry standards set forth in Section 9601 (35)(b) of CERCLA. The findings and conclusions set forth in this report are based upon information that was available to ***LEA*** during the inspection of the property and review of selected records and documents. If new information becomes available concerning the environmental integrity of the Subject Property after this date, or if the Subject Property is used in a manner other than that which is identified in this report, the findings and conclusions contained herein may have to be modified. Additionally, while this investigation was performed in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry, ***LEA*** cannot guarantee that the property is completely free of hazardous substances or other materials or conditions that could subject Chris Cielepak to potential liability. The presence or absence of any such condition can only be confirmed through the collection and analysis of air, soil, and/or groundwater samples, which was beyond the scope of this investigation.

Limiting Conditions:

The preceding Environmental Site Assessment is subject to the following conditions and to such other conditions and limiting conditions as are set forth in the report.

1. ***Laurel Environmental Associates, Ltd.*** assumes no responsibility for hidden or latent conditions or misrepresentation by the property owner, his representatives, public information officials, or any authority consulted in connection with the compilation of this report.

2. This report is prepared for the sole and explicit purpose of assessing the potential liability with respect to the suspected presence of hazardous materials that may pose a potential health or environmental threat. It is also prepared for evaluating collateral risk associated with the same. This report is not intended to have any direct bearing on the value of the property.

3. The Environmental Site Assessment and the Environmental Site Assessment Report are for the sole use of the Principal Parties. No disclosure or reproduction shall be made of the preceding report without the prior written consent of ***Laurel Environmental Associates, Ltd.***

4. ***Laurel Environmental Associates, Ltd.*** or any representative of ***Laurel Environmental Associates, Ltd.*** is not required to give testimony with reference to the opinions expressed herein without prior written arrangement.

5. ***Laurel Environmental Associates, Ltd.*** cannot be liable for information known only to the site owner or operator and not shared with ***Laurel Environmental Associates, Ltd***.

12.0 TERMS AND CONDITIONS

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify, to the extent feasible pursuant to the processes described herein to recognize environmental conditions, which are significant adverse environmental concerns in connection with the Subject Property. This practice is intended to permit the user to satisfy one of the requirements to qualify for the innocent landowner defense to CERCLA liability: that is, to undertake "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice." It also is intended to assist the user in developing information about the environmental condition of the Subject Property. This Phase I ESA is site specific in that it relates only to the environmental assessment of the property indicated herein.

12.1 SPECIAL TERMS AND CONDITIONS

This Phase I ESA was prepared essentially in accordance with ASTM Standards on Environmental Site Assessments: Phase I Environmental Site Assessment Process as set forth in E1527-05. No *environmental site Assessment* can wholly eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with a *property*. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for *recognized environmental conditions* in connection with a *property*, and this practice recognizes reasonable limits of time and cost.

12.2 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

This Phase I ESA was not intended to be in strict accordance with ASTM, be all inclusive, identify all potential concerns, or eliminate the possibility that the Subject Property may have environmental problems. Although ***Laurel Environmental Associates, Ltd.*** has taken great care to identify such concerns or problems, it is possible that conditions un-permitted, undocumented, not observed, or otherwise concealed on the Subject Property could exist. Additional information which was not found or made available to ***LEA,*** may result in a modification of the conclusions and recommendations presented.

12.3 LIMITING CONDITIONS AND METHODOLOGY USED

This Phase I ESA was prepared in a manner consistent with the level of skill ordinarily exhibited by members of the environmental auditing profession in this geographic region. No representations, expressed or implied, and no warranty or guarantee is included or intended in connection with this report. ***LEA*** cannot be responsible for any unauthorized use of, any misrepresentation of the information, or the information contained in this report. The information contained in this report has been obtained from readily ascertainable public sources, interviews, and from visual observations of the Subject Property, that may have been limited by secured areas, overgrown vegetation, or by other obstructions. Although great care has been taken by ***LEA*** in compiling and checking the information contained in this report to ensure that it is current and accurate, ***LEA*** disclaims any and all liability for any errors, omissions, or inaccuracies of such information and data, whether attributable to an advertence or otherwise, and for any consequences arising there-from. It is understood that ***LEA*** makes no representations or warranties of any kind, including, but not limited to, the warranties of fitness for a particular purpose of merchantability, nor should any such representation or warranty be implied with the respect to customer, it is employees or agents use thereof. ***LEA*** shall not be liable for any special, consequential, or exemplary damages resulting in whole or in part from customer use of the data. This report does not constitute a legal opinion.

13.0 REFERENCES

American Society for Testing and Materials Phase I Standards, ASTM E1527-05. 2006

Bing, http://www.bing.com/maps/, Site Location, February 2013

Doriski, T.P., 1987. Potentiometric surface of the water table, Magothy and Lloyd aquifers on Long Island, New York in 1984: U.S. Geological Survey Water Resource Investigations Report 86-4189, 4 sheets, scale 1:500,000

EDR Sanborn Fire Insurance Maps, Reviewed February 2013

Franke, O.L., 1972. Regional Rates of Ground Water Movement on Long Island, New York: U.S. Geological Survey Prof. Paper 800-C

Franke, O.L. and McClymonds, N.E., 1972. Summary of hydrologic situation on Long Island, New York as a guide to water management alternatives: U.S. Geological Survey Prof. Paper 627-F, 59p

Google Earth 2009, Aerial Photographs, February 2013

Hubert (last name not provided) Interview during the site inspection, February 2013

Microsoft Research Maps, http://msrmaps.com/Default.aspx, Topographic Maps, February 2013

NYC ACRIS, Reviewed February 2013

NYC Department of Buildings, Reviewed, February 2013

NYCDEP FOIL, Request, February 2013

NYSDEC Ecological Regions (Ecozones) of New York State: Original boundaries and information taken from Will et al (1982) and Dickinson (1983) and modified by John Ozard of the New York State Department of Environmental Conservation.

RealQuest® records, http://www.realquest.com/jsp/rq.jsp?&client=&action=switch&page=main, Reviewed February 2013

Select Phone, Version 2.4, Northeast, Info USA, Reviewed, February 2013

Toxics Targeting, Inc. Environmental Report, Received February 2013 Search of all Federal, State and local databases to meet ASTM E1527-05 requirements

USFWS, Wetlands On-line Mapper, http://wetlandsfws.er.usgs.gov/wtlnds/launch.html, February 2013

USGS, Brooklyn, New York Topographical Quadrangle Map, 1969, Photorevised 1979

14.0 DEFINITIONS

Abandoned Property – *property* that can be presumed to be deserted, or an intent to relinquish possession or control can be inferred from the general disrepair or lack of activity thereon such that a reasonable person could believe that there was an intent on the part of the current owner to surrender rights to the *property*.

Activity and use limitations – legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances in the soil or ground water on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or ground water on the property.

Actual knowledge – the knowledge actually possessed by an individual who is a real person, rather than an entity. Actual knowledge is to be distinguished from constructive knowledge that is knowledge imputed to an individual or entity.

Adjoining properties – any real property or properties the border of which is contiguous or partially contiguous with that of the property; or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them.

Aerial photographs – photographs taken from an aerial platform with sufficient resolution to allow identification of development and activities of areas encompassing the property. Aerial photographs are often available from government agencies or private collections unique to a local area.
See 8.3.4.1 of this practice.

All appropriate inquiry – that inquiry constituting "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in CERCLA, 42 USC § 9601(35) (B), that will qualify a party to a *commercial real estate* transaction for one of the threshold criteria for satisfying the LLPs to CERCLA liability (42 USC § 9601(35)(A) & (B) §9607(b) (3), §9607(q); and §9607(r)), assuming compliance with other elements of the defense.
See Appendix X1 of this practice.

Approximate minimum search distance – the area for which records must be obtained and reviewed pursuant to Section 8 subject to the limitations provided in that section. This may include areas outside the property and shall be measured from the nearest property boundary. This term is used in lieu of radius to include irregularly shaped properties.

Bona Fide prospective purchaser liability protection – (42 U.S.C. §9607(r) – a person may qualify as a bona fide prospective purchaser if, among other requirements, such person made "all appropriate inquiries into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practice." Knowledge of contamination resulting from all appropriate inquiry would not generally preclude this liability protection. A person must make all appropriate inquiry on or before the date of purchase. The facility must have been purchased after January 11th, 2002.
See ASTM E1527-05 Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

Brownfields amendments – amendments to CERCLA pursuant to the Small Business Liability Relief and Brownfields Revitalization Act, Pub. L. No. 107-118 (2002), 42 U.S.C. §§9601 *et seq*.

Building department records – those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property. Often building department records are located in the building department of a municipality or county. See 8.3.4.7.

Commercial real estate - any real *property* except a *dwelling* or *property* with no more than four dwelling units exclusively for residential use (except that a dwelling or property with no more than four dwelling units exclusively for residential use is included in this term when it has a commercial function, as in the building of such dwelling for profit). This term includes but is not limited to undeveloped real property and real property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential use when it has a commercial function, as in the building of such dwellings for profit.

Commercial real estate transactions – a transfer of title to or possession of real property, except that it does not include transfer of title to or possession of real property with respect to an individual dwelling or building containing fewer than five dwelling units, nor does it include the purchase of a lot or lots to construct a dwelling for occupancy by a purchaser, but a commercial real estate transaction does include real property purchased or leased by person or entities in the business of building or developing dwelling units.

Comprehensive Environmental Response, Compensation and Liability Information Systems (CERCLIS) – the list of sites compiled by USEPA that USEPA has investigated or is currently investigating for potential hazardous substance contamination for possible inclusion on the National Priorities List.

Construction debris – concrete, brick, asphalt, and other such building materials discarded in the construction of a building or other improvement to property.

Contaminated public wells – public wells used for drinking water that have been designated by a government entity as contaminated by hazardous substance (for example, chlorinated solvents), or as having water unsafe to drink without treatment.

Contiguous property owner liability protection-(42 U.S.C. §9607(q))-a person may qualify for the *contiguous property owner liability protection* if, among other requirements, such person owns real property that is contiguous to, and that is or may be contaminated by hazardous substance from other real property that is not owned by that person. Furthermore, such person conducted *all appropriate inquiry* at the time of acquisition of the property and did not know or have reason to know that the property was or could be contaminated by a *release* or threatened release from the contiguous property. The all appropriate inquiry must not result in knowledge of contamination. If it does, then such person did "know" or "had reason to know" of contamination and would not be eligible for the *contiguous property owner liability protection*.
See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

CORRACTS list – a list maintained by EPA of hazardous waste treatment, storage, or disposal facilities and other RCRA-regulated facilities (due to past interim status or storage of hazardous waste beyond 90 days) that have been notified by the U.S. Environmental Protection Agency to undertake corrective action under RCRA.

Data Failure – a failure to achieve the historical research objectives in 8.3.1 through 8.3.2.2 even after reviewing the standard historical sources in 8.3.4.1 through 8.3.4.8 that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.
See 8.3.2.3 of this practice.

Data gap – a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to interview the key site manager, regulatory officials, etc.)
See 12.7 of this practice.

Demolition debris – concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to property.

Drum – a container (typically, but not necessarily, holding 55 gal (208 L) of liquid) that may be used to store hazardous substance or petroleum products.

Drywells – underground areas where soil has been removed and replaced with pea gravel, coarse sand, or large rocks. Dry wells are used for drainage, to control storm runoff, for the collection of spilled liquids (intentional and non-intentional) and wastewater disposal (often illegal).

Dwelling-structure or portion thereof used for residential habitation.

Engineering controls – physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or ground water on the property.

Environmental lien – a charge, security, or encumbrance upon title to a *property* to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of *hazardous substances* or *petroleum products* upon a *property*, including (but not limited to) liens imposed pursuant to CERCLA 42 USC§ §9607(1) & 9607 (r) and similar state or local laws.

ERNS list – USEPA's emergency response notification system list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. Notification requirements for such releases or spills are codified in 40 CFR Parts 302 and 355.

Federal Registration (FR) - publication of the United State government published daily (except for federal holidays and weekends) containing all proposed and final regulations and some other activities of the federal government. When regulations become final, they are included in the Code of Federal Regulations (CFR), as well as published in the Federal Register.

Fill dirt - dirt, soil, sand, or other earth, that is obtained off-site, which is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real property. It does not include material that is used in limited quantities for normal landscaping activities.

Fire insurance maps – maps produced for private fire insurance map companies that indicate uses of properties at specified dates and that encompass the property. These maps are often available at local libraries, historical societies, private resellers, or from the map companies who produces them.

Good faith – the absence of any intention to seek an unfair advantage or to defraud another party; an honest and sincere intention to fulfill one's obligations in the conduct or transaction concerned.

Hazardous substance – a substance defined as a hazardous substance pursuant to CERCLA 42 USC§ 9601(14), as interpreted by USEPA regulations and the courts: "(A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, (42 USC § 6921) (but not including any waste the regulation of which under RCRA (42 USC §§ 6901 *et seq.*) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 USC § 7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of USEPA) has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas)."

Hazardous waste – any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of RCRA, as amended, (42 USC § 6921) (but not including any waste the regulation of which under RCRA (42 USC §§ 6901-6992k.) has been suspended by Act of Congress). RCRA is sometimes also identified as the Solid Waste Disposal Act. RCRA defines a hazardous waste, in 42 USC § 6903, as: "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may- (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed."

IC/EC registries – database of institutional controls or engineering controls that may be maintained by a federal, state or local environmental agency for purposes of tracking sites that may contain residual contamination and AULs. The names for these may vary from program and state to state, and include terms such as Declaration of Environmental Use Restriction database (Arizona), list of "deed restrictions" (California), environmental real covenants list (Colorado), Brownfields site list (Indiana, Missouri, Pennsylvania).

Institutional controls – a legal or administrative restriction (for example, "deed restrictions", restrictive covenants, easements or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances in the soil or ground water on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.

Interviews – those portions of this practice that are contained in Section 5.0 thereof and address questions to be asked of past and present owners, operators, and occupants of the property and question to be asked of local government officials.

Landfill – a place, location, tract of land, area, or premises used for disposal of solid waste as defined by state solid waste regulations. The term is synonymous with the term *solid waste disposal site* and is also known as a garbage dump, trash dump, or similar term.

Local government agencies – those agencies of municipal or county government having jurisdiction over the property. Municipal and county government agencies include but are not limited to cities, parishes, townships and similar entities.

Local street directories – directories published by private (or sometimes government) sources that show ownership, occupancy, and/or use of sites by reference to street addresses. Often local street directories are available at libraries, or historical societies, and/or local municipal offices.
See 8.3.4.6 of this practice.

LUST sites – state lists of leaking underground storage tank sites. RCRA gives USEPA and states, under cooperative agreements with USEPA, authority to clean up release from UST systems or require owner and operators to do so. (42 U.S.C. §6991b).

Major occupants – those tenants, subtenants, or other persons or entities each of which uses at least 40% of the Subject Property.

Material safety data sheet (MSDS) – written or printed material concerning a hazardous substance which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200.

National Contingency Plan (NCP) – the National Oil and Hazardous Substance Pollution Contingency Plan, found at 40 CFR Part 300 that is the USEPA's blueprint on how hazardous substances are to be cleaned up pursuant to CERCLA.

Occupants – those tenants, subtenants, or other persons or entities using the Subject Property or a portion of the Subject Property.

Owner – generally the fee owner of record of the *property.*

Petroleum exclusion – the exclusion from CERCLA liability provided in 42 USC § 9601(14), as interpreted by the courts and USEPA: "The term (hazardous substance) does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas)."

Petroleum products – those substances included within the meaning of the *petroleum exclusion* to CERCLA, 42 USC § 9601(14), as interpreted by the courts and USEPA, that is: petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under Subparagraphs (A) through (F) of 42 USC § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to *Standard Definitions of Petroleum Statistics*.

Pits, ponds, or lagoons – man-made or natural depressions in a ground surface that are likely to hold liquids or sludge containing *hazardous substances* or *petroleum products*. The likelihood of such liquids or sludge being present is determined by evidence of factors associated with the pit, pond, or lagoon, including, but not limited to, discolored water, distressed vegetation, or the presence of an obvious wastewater discharge.

Property – the real property that is the subject of the *environmental site assessment* described in this practice. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

RCRA TSD Facilities – those facilities on which treatment, storage, and/or disposal of hazardous wastes take place, as defined and regulated by RCRA.

Solvent - a chemical compound that is capable of dissolving another substance and may itself be a *hazardous substance*, used in a number of manufacturing/industrial processes including but not limited to the manufacture of paints and coatings for industrial and household purposes, equipment clean-up, and surface degreasing in metal fabricating industries.

Sump – a pit, cistern, cesspool, or similar receptacle where liquids drain, collect, or are stored.

TSD facility – treatment, storage, or disposal facility (see RCRA TSD facilities).

Underground storage tanks (UST) – any tank, including underground piping connected to the tank, that is or has been used to contain *hazardous substances* or *petroleum products* and the volume of which is 10% or more beneath the surface of the ground.

Wastewater – water that (1) is or has been used in an industrial or manufacturing process, (2) conveys or has conveyed sewage, or (3) is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. Wastewater does not include water originating on or passing through or adjacent to a site, such as storm water flows, that has not been used in industrial of manufacturing processes, has not been combined with sewage, or is not directly related to manufacturing, processing, or raw materials storage areas at an industrial plant.

14.1 ADDITIONAL DEFINITIONS – SPECIFIC TO ESA

Business environmental risk – a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of *business environmental risk* issues may involve addressing one or more non-scope considerations, some of which are identified in Section 13.

Due diligence – the process of inquiring into the environmental characteristics of a parcel of *commercial real estate* or other conditions, usually in connection with a commercial real estate transaction. The degree and kind of due diligence vary for different properties and differing purposes.

Environmental compliance audit – the investigative process to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations. This term should not be used to describe Practice E 1528 or 1527, although an environmental compliance audit may include an *environmental site assessment* or, if prior audits are available, may be part of an environmental site assessment.

Environmental professional – (1) a person who possesses sufficient specific education, training and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases (see §312.1(c)), on, at, in, or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). (2) Such a person must: (i) hold a current Professional Engineer's or Professional Geologist's license or registration from a state, tribe, or US territory (or the Commonwealth of Puerto Rico) and have the equivalent of three (3) years of fulltime relevant experience; or (ii) be licensed or certified by the federal government, a state, tribe, or US territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries as defined in §312.21 and have the equivalent of three (3) years of full-time relevant experience; or (iii) have a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the

equivalent of five (5) years of full-time relevant experience; or (iv) have the equivalent of ten (10) years of full-time relevant experience. The person may be an independent contractor or an employee of the *user*.

Environmental site assessment (ESA) – the process by which a person or entity seeks to determine if a particular parcel of real *property* (including improvements) is subject to *recognized environmental conditions*. At the option of the user, an environmental site assessment may include more inquiry than that which constitutes *all appropriate inquiry* or, if the user is not concerned about qualifying for the LLPs, less inquiry than that constituting *all appropriate inquiry.* An environmental site assessment is different from an *environmental compliance audit.*

Historical recognized environmental condition – environmental condition which in the past would have been considered a *recognized environmental condition*, but which may or may not be considered a *recognized environmental condition* currently. The final decision rests with the *environmental professional* and will be influenced by the current impact of the *historical recognized environmental condition* on the property. If a past release of any hazardous substances or petroleum products has occurred in connection with the property and has been remediated, with such remediation accepted by the responsible regulatory agency (for example, as evidenced by the issuance of a no further action letter or equivalent), this condition shall be considered an *historical recognized environmental condition* and included in the findings section of the Phase I *Environmental Site Assessment* report. The *environmental professional* shall provide an opinion of the current impact on the property of this *historical recognized environmental condition* in the opinion section of the report. If this *historical recognized environmental condition* is determined to be a *recognized environmental condition* at the time the Phase I *Environmental Site Assessment* is conducted, the condition shall be identified as such and listed in the conclusions section of the report.

Innocent landowner defense – (42 USC § 9601(35) and § 9607(b) (3)). A person may qualify as one of three types of innocent landowners: (i) a person who :did not know and had no reason to know" that contamination existed on the property at the time the purchaser acquired the property; (ii) a government entity which acquired the property by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; and (iii) a person who :acquired the facility by inheritance or bequest." To qualify for the first type of innocent landowner LLP, such person must have made all appropriate inquiry on or before the date of purchase. Furthermore, the all appropriate inquiry must not have resulted in knowledge of the contamination. If it does, then such person did "know" or "had reason to know" of contamination and would not be eligible for the innocent landowner defense. See ASTM E1527-05 Appendix X1.

Key site manager – the person identified by the *owner* or *operator* of a *property* as having good knowledge of the uses and physical characteristics of the property.

Landowner Liability Protections (LLPs) – landowner liability protections under CERCLA; these protections include the bona fide prospective purchaser liability protection, contiguous property owner liability protection, and innocent landowner defense from CERCLA liability, See 42 USC § §9601(35)(A), 9601(40), 9607(b), 9607(q), 9607 (r).

Material threat – a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the *environmental professional*, is threatening and might result in impact to public health of the environment. An example might include an aboveground storage tank that contains a hazardous substance and which shows evidence of damage. The damage would represent a material threat if it is deemed serious enough that it may cause or contribute to tank integrity failure with a release of contents to the environment.

Obvious – that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while visually or physically observing the *property*.

Other historical sources – any source or sources other than those designated in 7.3.4.1 through 7.3.4.8 that are credible to a reasonable person and that identify past uses of the property. The term includes, but is not limited to: miscellaneous maps, newspaper archives, internet sites, community organizations, local libraries, historical societies, current owners or occupants of neighboring properties, and records in the files and/or personal knowledge of the *property owner* and/or *occupants*. See ASTM E1527-05 Sections 3.2.58 and 8.3.4.8.

Practically reviewable – information that is *practically reviewable* means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the *property* without the need for extraordinary analysis or irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the *property* or a geographic area in which the *property* is located are not generally *practically reviewable*. Most databases of public records are *practically reviewable* if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally practically reviewable. Listings in publicly available records which do not have adequate address information to be located geographically are not generally considered practically reviewable. For large databases with numerous facility records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not *practically reviewable* unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be *practically reviewable*. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the *property*, it is not *practically reviewable.*

Publicly available – information that is publicly available means that the source of the information allows access to the information by anyone upon request.

Reasonably ascertainable – for purposes of both Practice E 1527 and 1528, information that is *(1) publicly available*, (2) obtainable from its source within reasonable time and cost constraints, and *(3) practically reviewable*.

Recognized environmental conditions – the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not *recognized environmental conditions*.

User – the party seeking to use Practices E 1527 or E 1528 to complete an *environmental site assessment* of the *property*. A user may include, without limitation, a potential purchaser of *property*, a potential tenant of property, an *owner* of *property,* a lender, or a property manager.

Visually and/or physically observed – during a *site visit* pursuant to this practice, this term generally means observations made by vision while walking through a *property* and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term "walking through" is not meant to imply that disabled persons who cannot physically walk may not conduct a *site visit*; they may do so by the means at their disposal for moving through the *property* and the structures located in it.

14.2 ACRONYMS

AULs – Activity and Use Limitations
CERCLA-Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended, 42 USC § 9601 *et seq.*)
CERCLIS-Comprehensive Environmental Response, Compensation and Liability Information System (maintained by USEPA)
CFR-Code of Federal Regulations
CORRACTS-Facilities subject to Corrective Action under RCRA
ECs – Engineering Controls
USEPA-United States Environmental Protection Agency
EPCRA-Emergency Planning and Community Right to Know Act ((also known as SARA Title III), 42 USC § 11001 *et seq.*)
ERNS-Emergency Response Notification System
ESA-Environmental Site Assessment (different than an *environmental audit*; see 3.3.13)
FOIA-U.S. Freedom of Information Act (5 USC 552 *et seq.*)
FR-Federal Register
ICs – Institutional Controls
LLPs – Landowner Liability Protections under the Brownfields Amendments
LUST-Leaking Underground Storage Tank
MSDS-Material Safety Data Sheet
NCP-National Contingency Plan
NFRAP-Former CERCLIS sites where no further remedial action is planned under CERCLA
NPDES-National Pollutant Discharge Elimination System
NPL-National Priorities List
PCBs-Polychlorinated Biphenyls
PRP-Potentially Responsible Party (pursuant to CERCLA 42 USC § 9607(a))
RCRA-Resource Conservation and Recovery Act (as amended, 42 USC § 6901 *et seq.*)
SARA-Superfund Amendments and Reauthorization Act of 1986 (amendment to CERCLA)

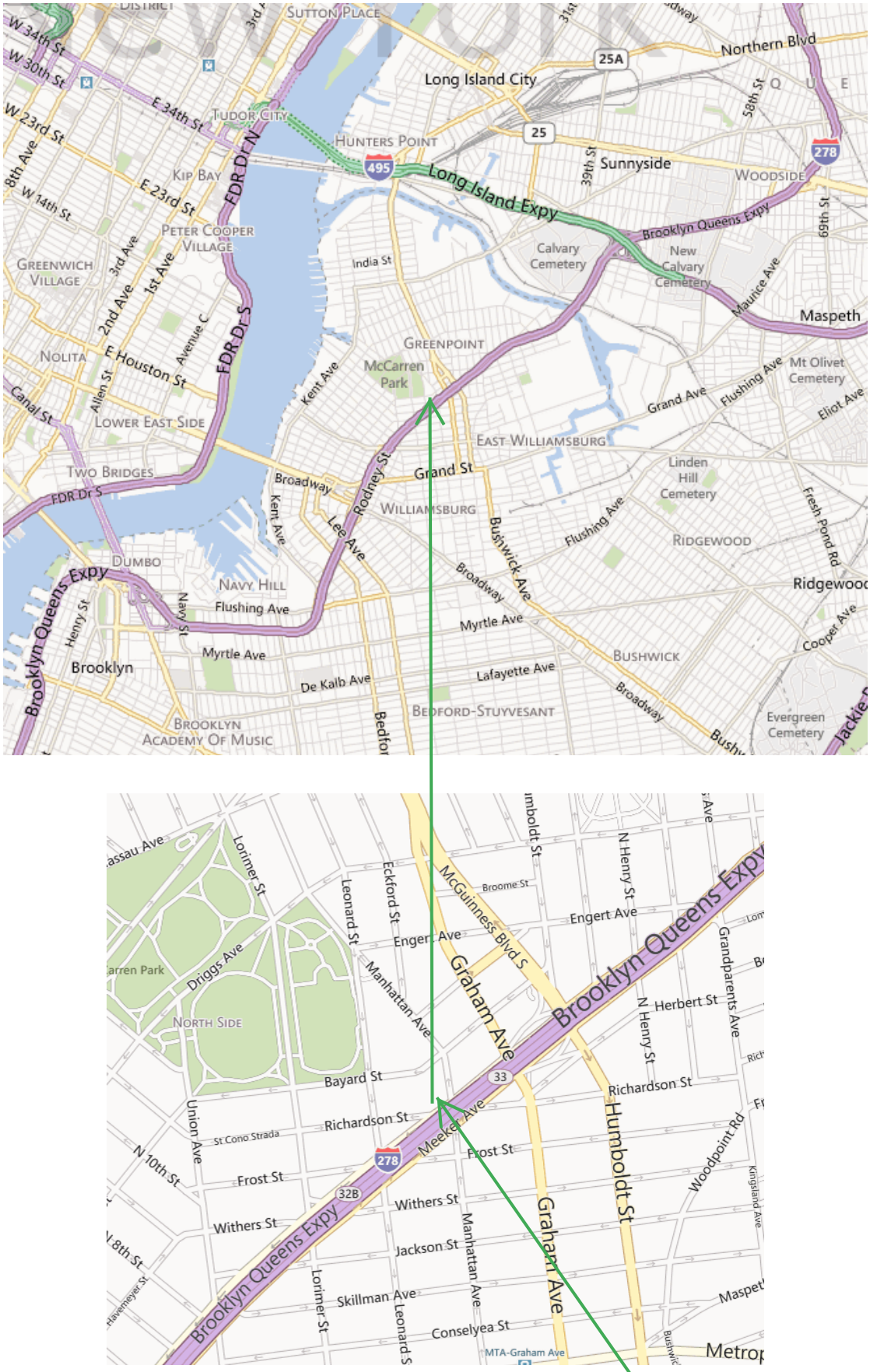


Figure 1.0 Site Location
415 Manhattan Avenue
Brooklyn, New York

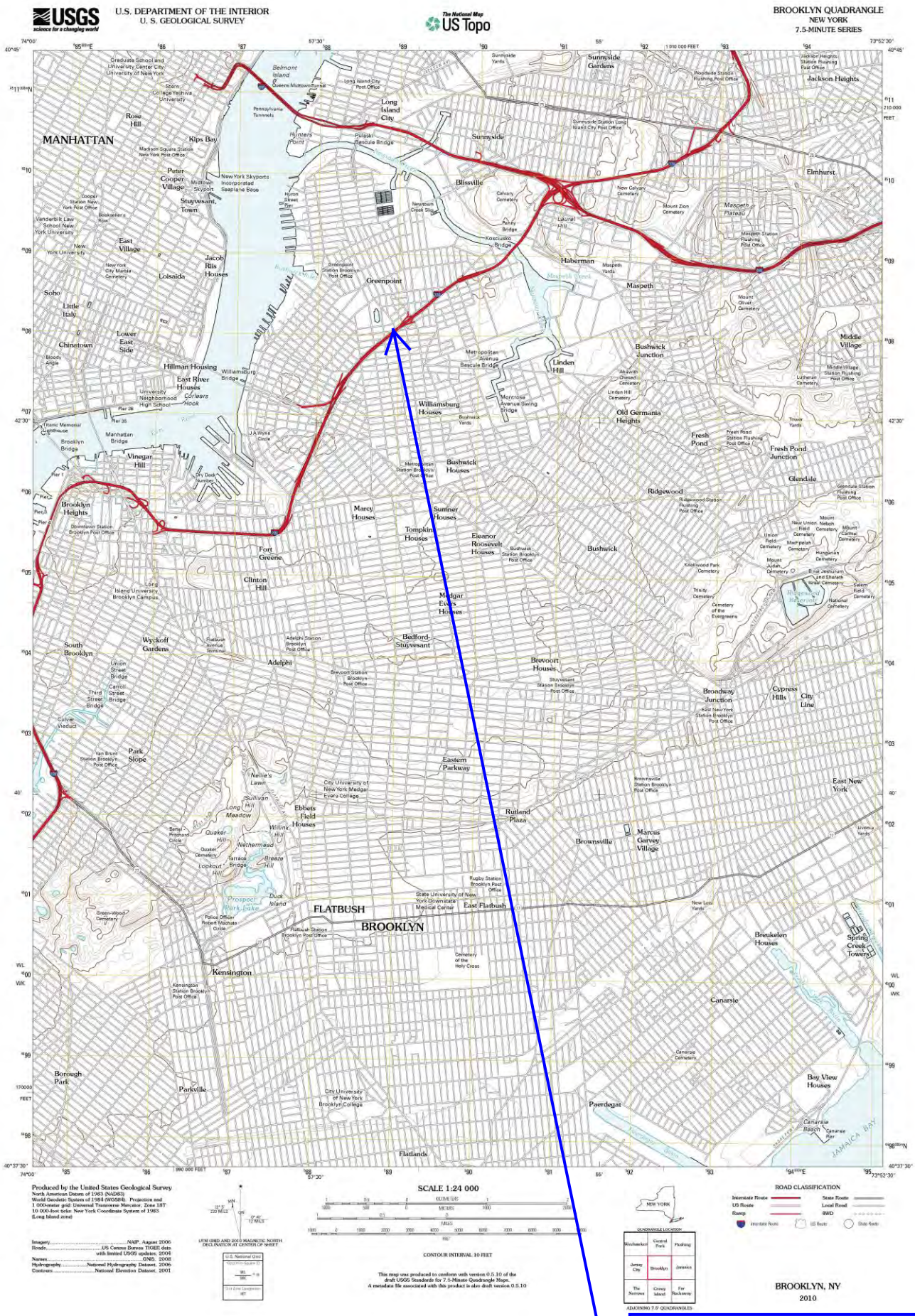


Figure 2.0 Current Topographic Map
415 Manhattan Avenue
Brooklyn, New York

Figure 3.0 Historical Topographic Map--1967
415 Manhattan Avenue
Brooklyn, New York

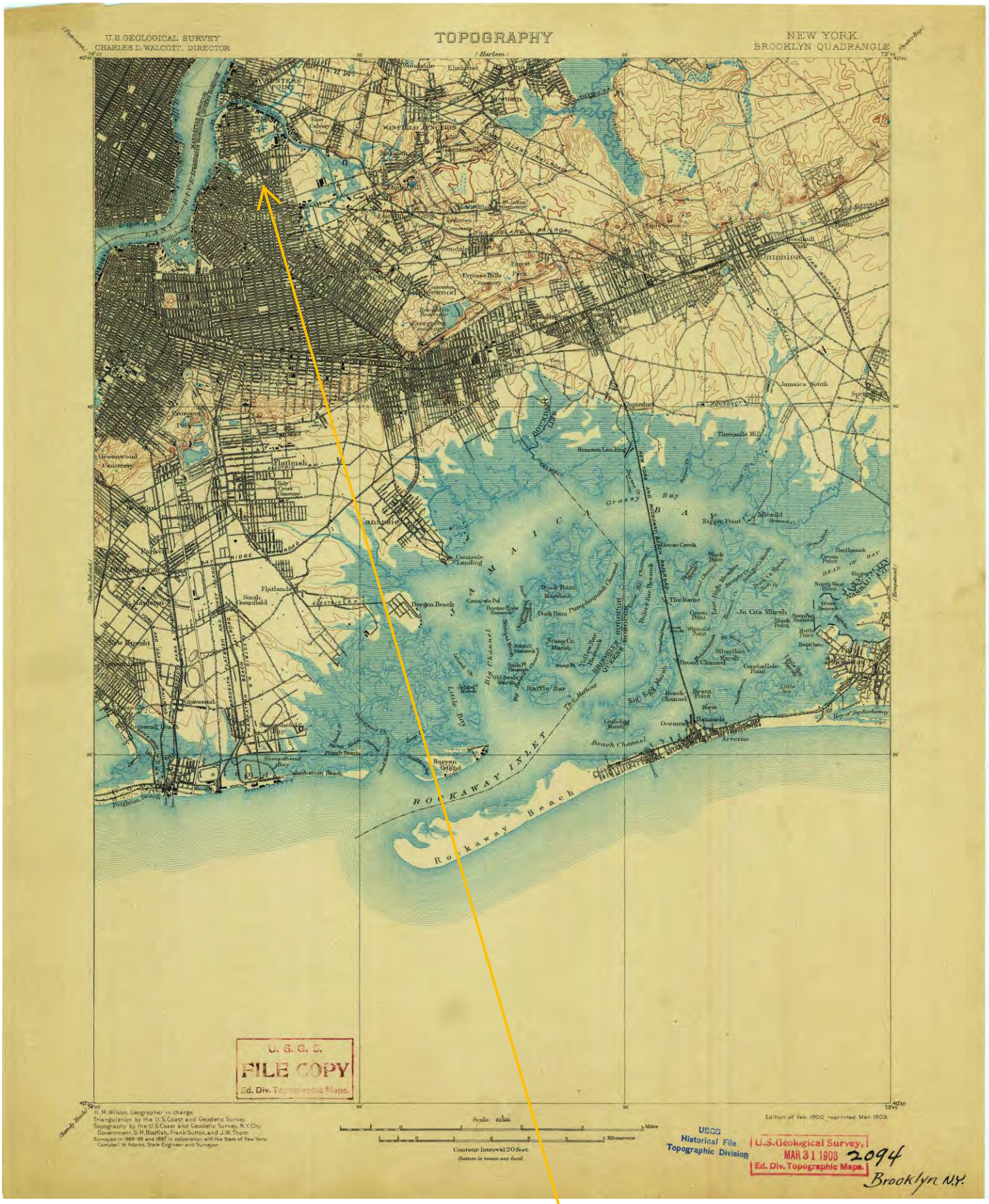
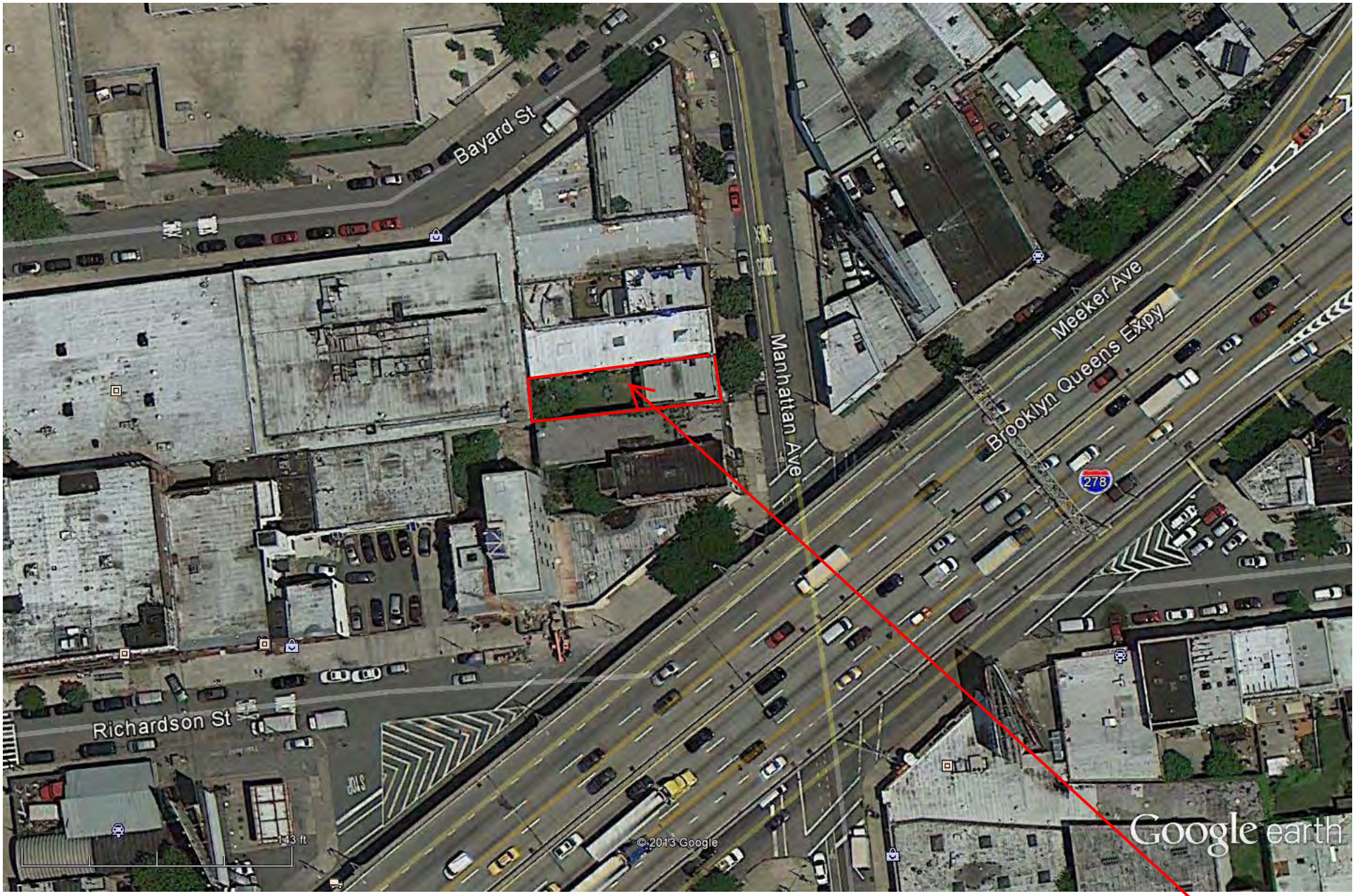


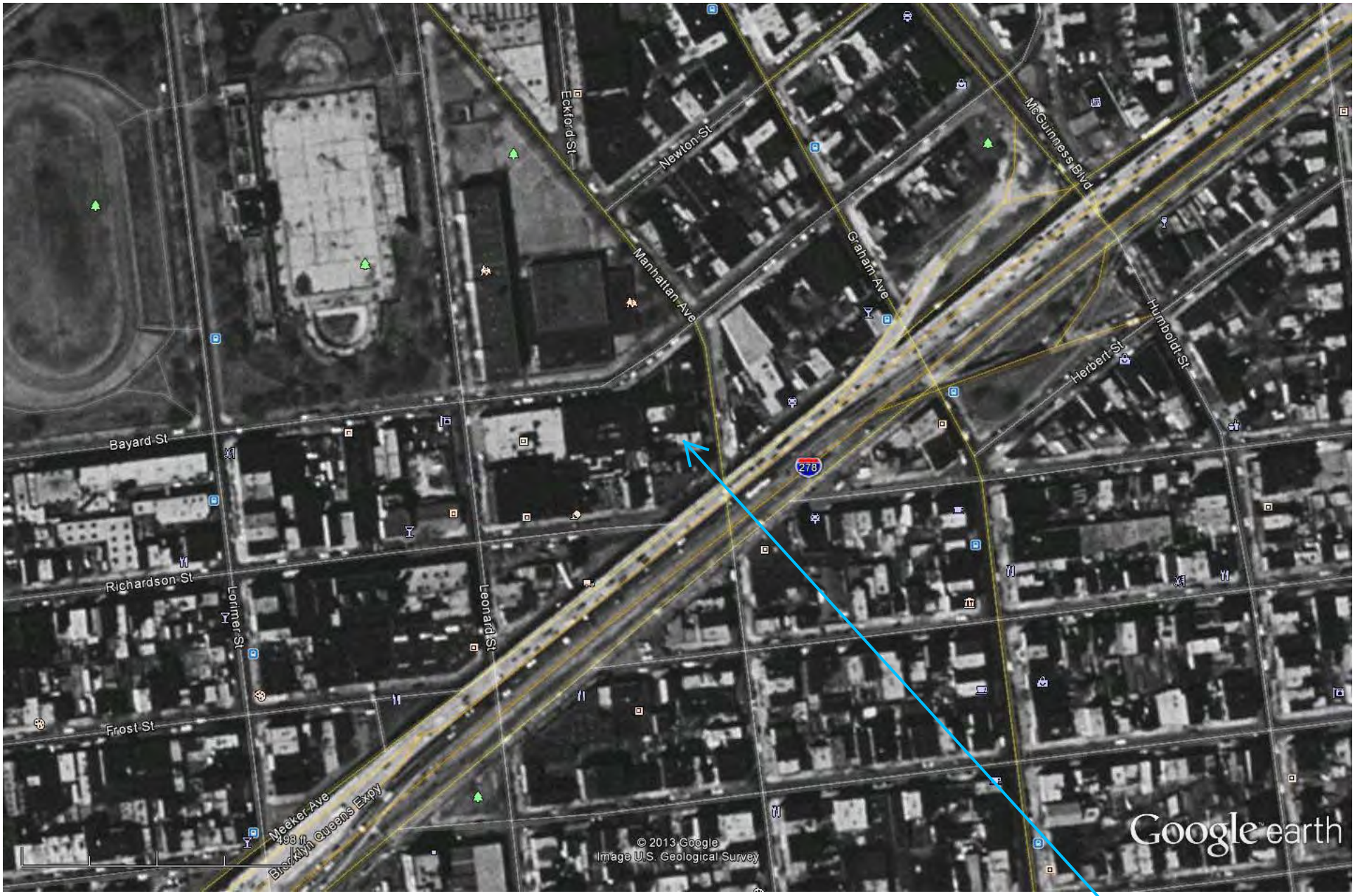
Figure 4.0 Historical Topographic Map--1900
415 Manhattan Avenue
Brooklyn, New York



feet 400

meters 100

Figure 5.0 Aerial Photograph
415 Manhattan Avenue
Brooklyn, New York



feet 1000

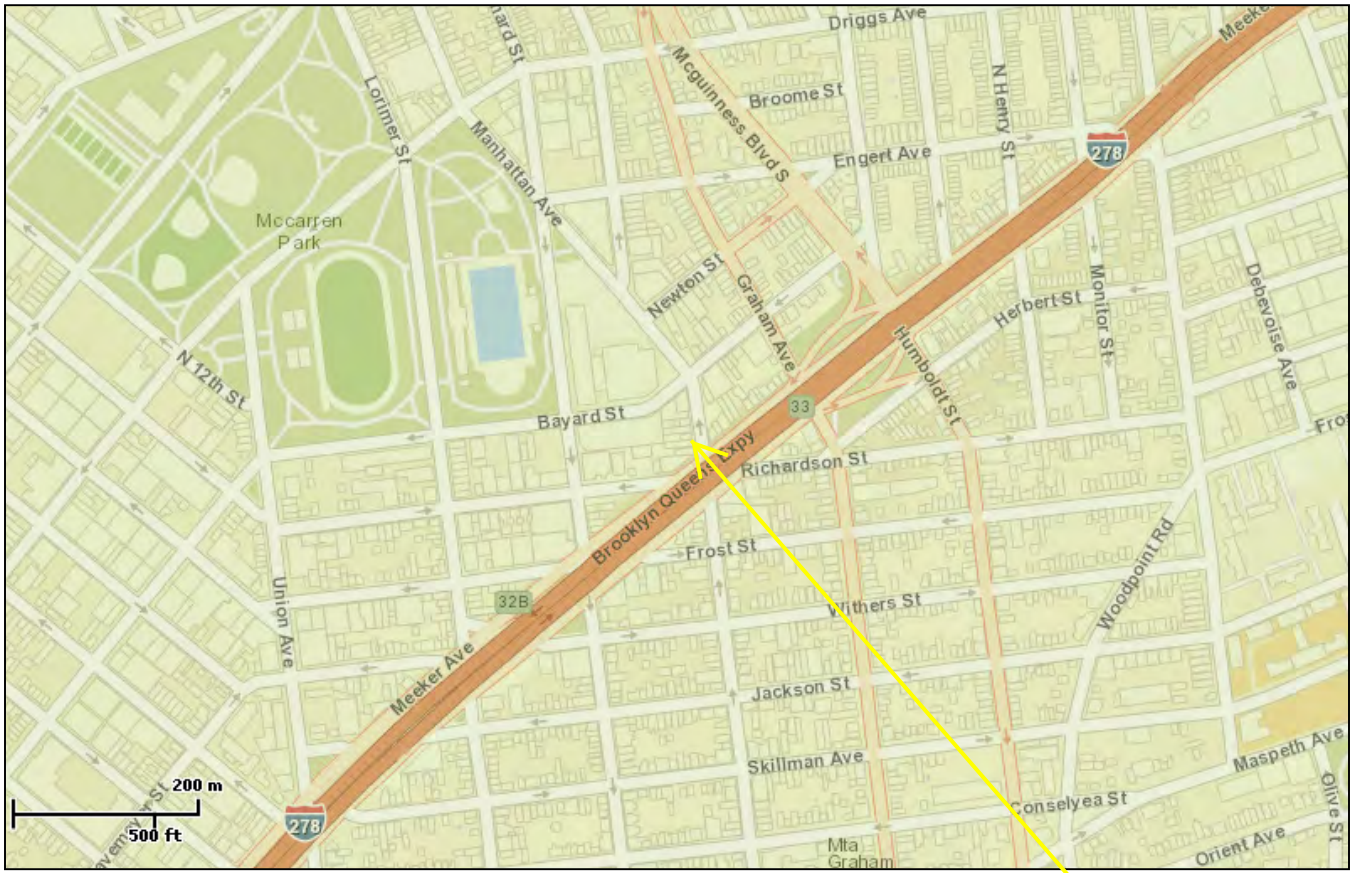
meters 400

Figure 6.0 Historical Aerial Photograph--1994
415 Manhattan Avenue
Brooklyn, New York

U.S. Fish and Wildlife Service

National Wetlands Inventory

Feb 28, 2013



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Status

- Digital
- Scan
- Non-Digital
- No Data

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Figure 7.0 Wetlands Map

415 Manhattan Avenue
Brooklyn, New York

Figure 8.0, Tribal Lands Map
Federal and State Recognized Indian Nation Lands, New York State

APPENDIX A

Site Photographs

Photo 1, View of the east side of the subject property

Photo 2, View of the west side of the subject property

Photo 3, View of the surrounding properties to the north

Photo 4, View of the surrounding properties to the east

Photo 5, View of the surrounding properties to the south

Photo 6, View of the surrounding properties to the west

Photo 7, View of the natural gas meters

Photo 8, View of gas-fired boilers

Photo 9, View of the hot water heaters

Photo 10, View of the electric meters

Photo 11, View of the basement space being renovated

Photo 12, Additional view of main floor renovations

Photo 13, View of the backyard

APPENDIX B

Regulatory Agency Records

NYCDEP FOIL Request & Response

NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Application for Records, Article 6 – New York State Public Officers Law, Freedom of Information Law

Complete Part I of this form. Please refer to instruction sheet for assistance in completing this form. If responsive records are located, you will be notified and informed of the required payment. Advance payment is required in check or money order payable to the City of New York before documents will be released. Either send the completed application to the Records Access Officer at NYC DEP, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373, or fax to (718) 595-6543. **DO NOT FAX AND MAIL.**

PART I. APPLICATION – Check type of record(s) requested:

- ☐ Bid/ Procurement (ACCO)
- ☐ Asbestos (BEC)
- ☒ Hazardous materials emergency response (BEC)
- ☐ Right To Know (BEC)
- ☒ Air permits/complaints/ inspections (BEC)
- ☐ Noise complaints/ inspections (BEC)
- ☒ Environmental Review/SEQRA (BEPA)
- ☒ Industrial Pretreatment/ sewer discharge violations (BWT)
- ☐ Water main/line repair/construction (BWSO)
- ☒ Sewer main/line repair/construction (BWSO)
- ☒ Water Quality (BWS/WQ)
- ☐ Watershed/ reservoir operations (BWS)
- ☒ Watershed area incident reports (DEP PD)
- ☐ Water bill accounts/ metering (BCS)
- ☐ Personnel records (HRM)
- ☐ Wastewater Treatment Plant operations (BWT)
- ☒ e designations

I hereby apply to inspect or X receive copies of the following records (use additional sheets as needed and attach):

Inspection records, violations, AST's + UST's Hazardous materials chemical storage permits, oil/pcb's/chemical/hazardous waste spills

Location: 415 manhattan Avenue, Brooklyn New York 11222

Time frame/date of records:

Name: Kristen Molfetta Phone: 631-673-0612 E-Mail: kmolfetta@laurelenv.com

Firm: Laurel Environmental Associates

Address: 53 West Hills Rd. Suite 1 City Huntington Station State NY Zip Code 11746

Signature: Kristen Molfetta Date: 2/26/13

PART II. DISPOSITION OF REQUEST (*TO BE COMPLETED BY THE DEPARTMENT*)

☐ APPROVED ☐ APPROVED IN PART - - To arrange for access to the records, please contact:

(Department Representative) (Bureau) (Phone No.)

Number of Pages: x$.25 per page = Cost:

☐ DENIED ☐ DENIED IN PART - - for reason(s) checked: References are to Sec. 87 of the Public Officers Law.

- ☐ Exempt: State/Fed. Statute (2(a))
- ☐ Invasion of personal privacy (2(b))
- ☐ Competitive position injury (2(d))
- ☐ Exempt: Law Enforcement (2(e))
- ☐ Inter/Intra-agency material (2(g))
- ☐ (Other)

Brief Description of records not subject to disclosure

A denial, in whole or in part, may be appealed within 30 days by writing to the NYCDEP FOIL Appeals Officer, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373

Environmental Protection

Carter H. Strickland, Jr.
Commissioner

John Rousakis
General Counsel
Bureau of Legal Affairs

Records Access Officer

59-17 Junction Boulevard
Flushing, NY 11373
T: (718) 595-3448
F: (718) 595-6543

March 1, 2013

Ms. Kristen Molfetta
Laurel Environmental Associates
53 West Hills Road, Suite 1
Huntington Station, NY 11746

Dear Ms. Molfetta:

Re: 415 Manhattan Avenue, Brooklyn

We hereby acknowledge receipt of your **Freedom of Information Law** request dated February 26, 2013.

Your request is important to us and will be handled as expeditiously as possible. You are advised, however, that because of the large increase in the volume of such requests, your response may be delayed.

Please be advised that the NYC Environmental Protection no longer handles e-designations requests. They are now handled by the Mayor's Office of Environmental Remediation. Listed below for your convenience is the address to submit your FOIL requests.

NYC Mayor's Office of Environmental Remediation
253 Broadway, 14th Floor
New York, New York 10007
212-788-8841

Enclosed with this letter are your original requests.

If you have any questions, please call Brenda Farren, Records Access Officer, at (718) 595-3448. Please refer to the ***FOIL log number(s)*** listed below when calling.

Sincerely,

Brenda Farren

Brenda Farren
FOIL Access Officer

FOIL log #(s) 94283, 94284, 94285, 94286

RECEIVED
3/5/13
laurel

Environmental Protection

Carter H. Strickland, Jr.
Commissioner

Vincent Sapienza
Deputy Commissioner
Bureau of Wastewater Treatment
vsapienza@dep.nyc.gov

96-05 Horace Harding Expressway
Corona, NY 11368
T: (718) 595-4906
F: (718) 595-6950

Date: 3/14/13

Re: Freedom of Information Law Request (FOIL) # 94285

Dear Sir or Madam:

I am writing in response to your FOIL request (see attached). This response specifically addresses only those aspects of your request related to the discharge of wastewater or other materials to a New York City public sewer. As this letter only pertains to records in the custody of the Division of Pollution Control and Monitoring, if your request was also directed to other divisions within the Bureau of Wastewater Treatment or to other bureaus within the Department of Environmental Protection, then you will receive a separate response from those divisions or bureaus.

Concerning your request, the **Division of Pollution Control and Monitoring**:

[ ] cannot identify the requested location because _____.

[X] after search, has not identified any records responsive to your request.

[ ] has identified records responsive to your request. Please telephone me at (718) 595-4756 to arrange for an appointment to review the information.

[ ] other _____

Sincerely,

Vitaly Weiler
FOIL Liaison
Division of Pollution Control and Monitoring

RECEIVED 3/19/13
Laurel

Environmental Protection

Carter H. Strickland Jr.
Commissioner

Angela Licata
Deputy Commissioner
of Sustainability
alicata@dep.nyc.gov

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

Steven A. Camaiore, P. E.
Director
Asbestos Control Program
718-595-4424

59-17 Junction Boulevard
8th Floor
Flushing, NY 11373

March 22nd, 2013

Ms. Kristen Molfetta
Laurel Environmental Associates
53 West Hills Road – Suite #1
Huntington, New York 11746

Dear Ms. Molfetta:

RE: 415 Manhattan Avenue
Phase 1

In response to your Freedom of Information Law request, dated March 1st, 2013. The Asbestos Control Program searched its files and has no records for the above-mentioned premise (s).

If you have any further questions, please do not hesitate to contact me at (718) 595-3677.

Sincerely,

Pauline Lewis for

Josianne Dieudonne

RECEIVED
4/8/13
Laurel

NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Application for Records, Article 6 – New York State Public Officers Law, Freedom of Information Law

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- ☒ Air permits/complaints/ inspections (BEC)
- ☐ Noise complaints/ inspections (BEC)
- ☒ Environmental Review/SEQRA (BEPA)
- ☒ Industrial Pretreatment/ sewer discharge violations (BWT)
- ☐ Water main/line repair/construction (BWSO)
- ☒ Sewer main/line repair/construction (BWSO)
- ☒ Water Quality (BWS/WQ)
- ☐ Watershed/ reservoir operations (BWS)
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LOG# 94285

APPENDIX C

NYC Building Department Records

NYCityMap

Search for a location: *Enter an address, intersection, community district, ZIP code, etc...*

Advanced Search

Searched Locations

415 MANHATTAN AVENUE
BROOKLYN 11222

Hide Additional Information...

- Find Nearest

- Building & Property Information

Borough: Brooklyn **Block:** 2723 **Lot:** 30
Police Precinct: 94
Owner: GUIDICE, TENANTS IN

Address: 415 MANHATTAN AVENUE, BROOKLYN 11222
Lot Area: 2500 sf
Lot Frontage: 25' **Lot Depth:** 100
Year Built: 1920 (estimated)
Number of Buildings: 1
Number of Floors: 2
Gross Floor Area: 1,050 sf (estimated)
Residential Units: 2 **Total # of Units:** 2
Land Use: One and Two Family Buildings
Zoning: M1-2/R6A
Commercial Overlay:
Zoning Map #: 13A
Landmark Building: No
Historic District: No

Dept. of City Planning, PLUTO 12v2 © 2012 and other city agency sources

Links to More Information

Address Translator

Building ECB Violations

- Neighborhood Information

- Elected Official Information

NYC Buildings

NYC .gov always open

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Property Profile Overview

415 MANHATTAN AVENUE **BROOKLYN 11222** **BIN# 3067909**

MANHATTAN AVENUE 415 - 415

Health Area	: 200	**Tax Block**	: 2723
Census Tract	: 499	**Tax Lot**	: 30
Community Board	: 301	**Condo**	: NO
Buildings on Lot	: 1	**Vacant**	: NO

View DCP Addresses... Browse Block

View Zoning Documents View Challenge Results View Certificates of Occupancy

Cross Street(s):	MEEKER AVENUE, BAYARD STREET		
DOB Special Place Name:			
DOB Building Remarks:			
Landmark Status:		**Special Status:**	N/A
Local Law:	NO	**Loft Law:**	NO
SRO Restricted:	NO	**TA Restricted:**	NO
UB Restricted:	NO		
Little 'E' Restricted:	HAZMAT/AIR	**Grandfathered Sign:**	NO
Legal Adult Use:	NO	**City Owned:**	NO
Additional BINs for Building:	NONE		
Additional Designation(s):	GW - GREENPOINT-WILLIAMSBURG ANTI-HARASSMENT		

Special District: MX-8 - MIXED USE-8 (GREENPOINT-WILLIAMSBURG, BK)

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

Department of Finance Building Classification: B9-2 FAMILY DWELLING

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

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

OR Enter Action Type:

OR Select from List: Select...

AND Show Actions

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

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

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Complaints By Address

Click here for information on how to remove a Stop Work Order from your property

Page: 1 of 1

1 Total Complaints **View SWO Complaints** **BIN: 3067909**

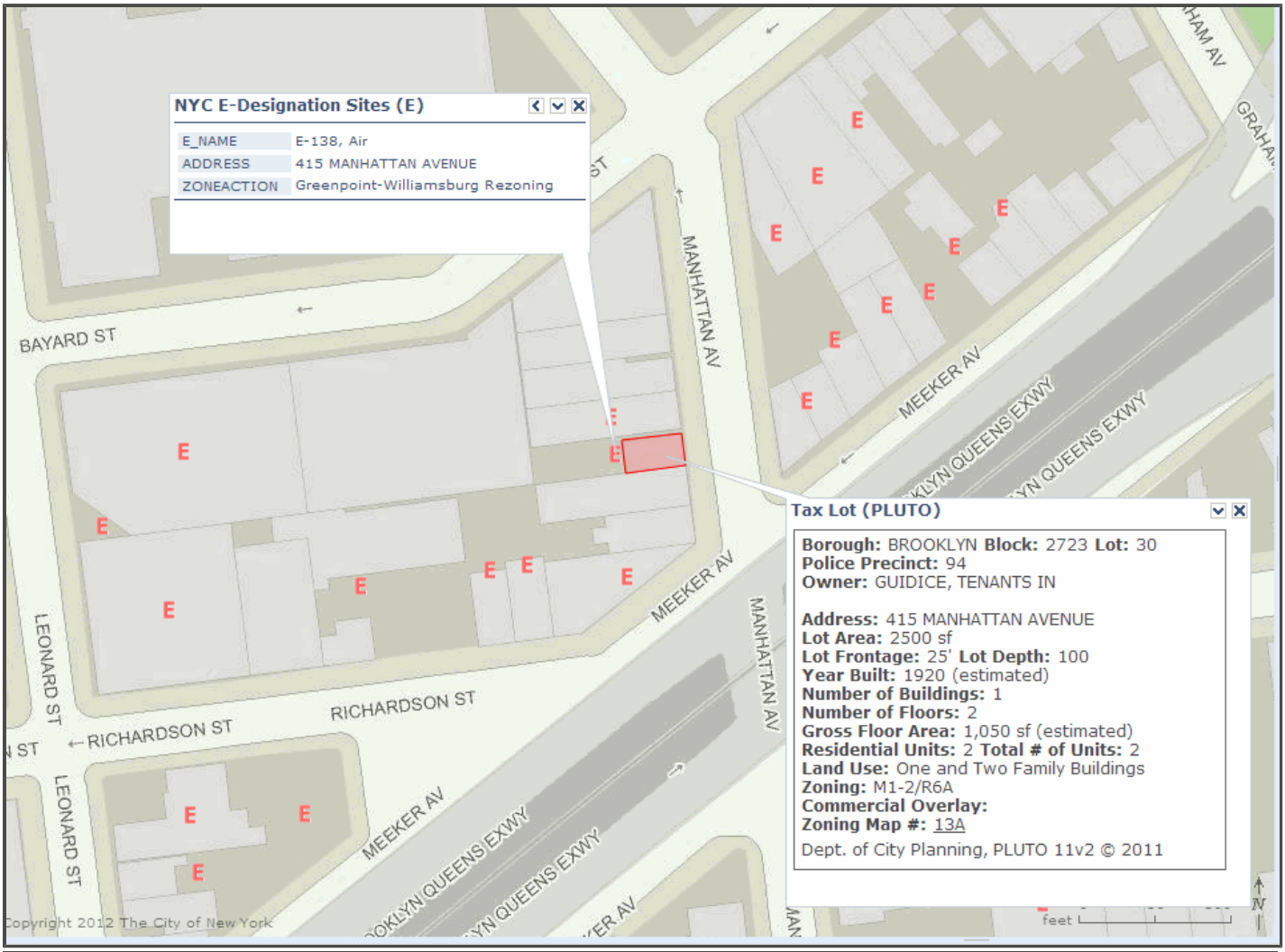
Looking for a list of complaint category codes or disposition codes?
(Adobe Acrobat Reader required)

Complaint Number	Address	Date Entered	Category	Inspection Date	Disposition	Status
3078917	415 MANHATTAN AVENUE	05/11/2000	05	05/17/2000	I2	RES

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

E-designation2

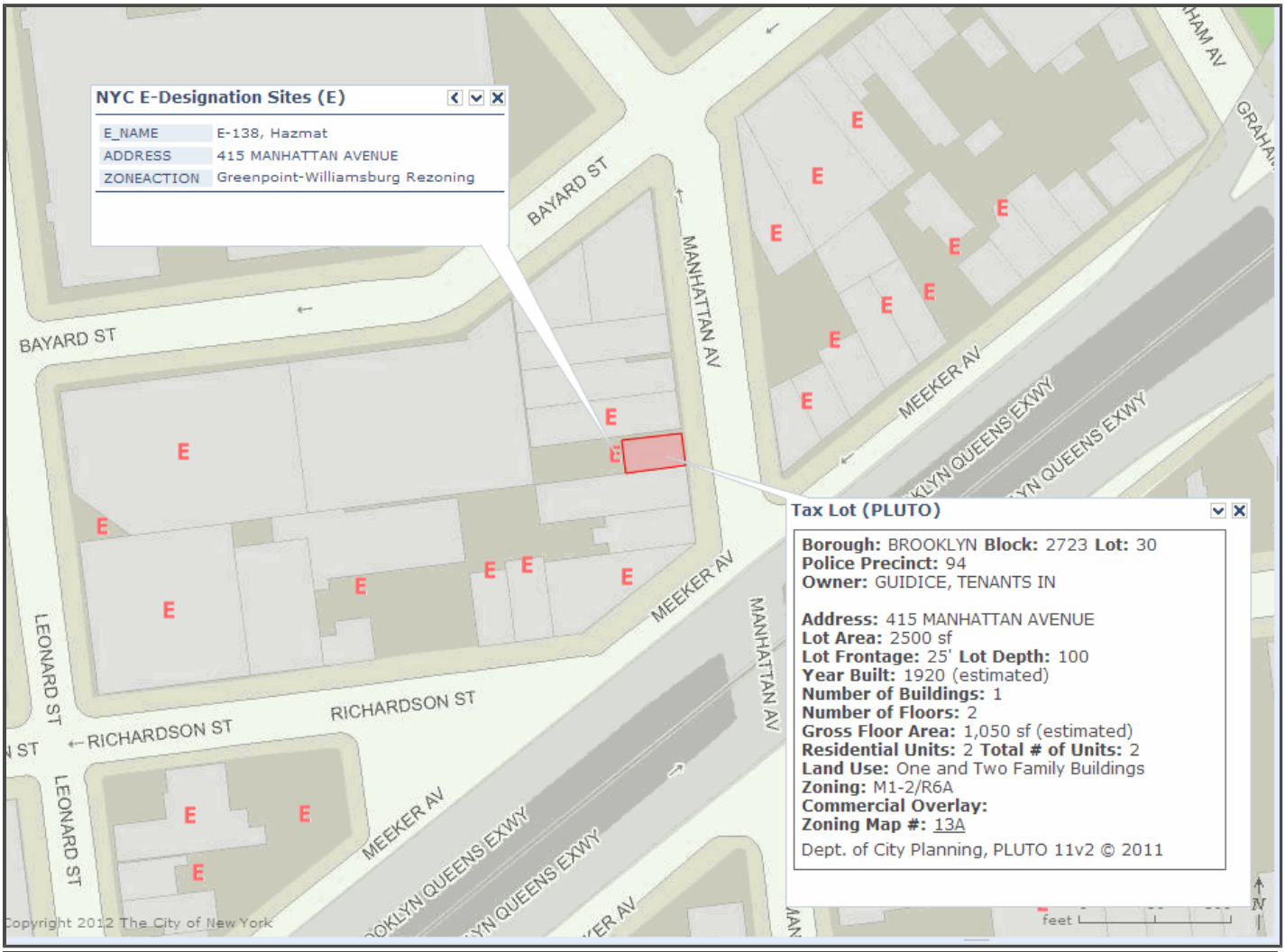
NYCityMap



E NYC E-Designation Sites (E)

415 Manhattan

NYCityMap



E NYC E-Designation Sites (E)

APPENDIX D

Toxics Targeting, Inc. Environmental Report Computerized Report from USEPA, NYSDEC and Local Databases

TOXICS TARGETING

Phase I
Environmental Database Report

415 Manhattan Avenue
Brooklyn, NY 11222

February 27, 2013

Privileged and Confidential.

LIMITED WARRANTY AND DISCLAIMER OF LIABILITY

Who is Covered

This limited warranty is extended by Toxics Targeting, Inc. only to the original purchaser of the accompanying Environmental Report ("Report"). It may not be assigned to any other person.

What is Warranted

Toxics Targeting, Inc. warrants that it uses reasonable care to accurately transcribe the information contained in this Report from the sources from which it is obtained. This limited warranty is in lieu of all other express warranties which might otherwise arise with respect to the Report. No one is authorized to change or add to this limited warranty.

What We Will Do

If during the warranty period there is shown to be a material error in the transcription of the information contained in this Report from the sources from which it was obtained, Toxics Targeting, Inc. shall refund to the original purchaser the full purchase price paid for the Report. The remedy stated above is the exclusive remedy extended to the Purchaser by Toxics Targeting, Inc. for any failure of the Report to conform with this Warranty, or otherwise for breach of this Warranty or any other warranty, whether expressed or implied.

What We Won't Cover

Toxics Targeting, Inc. has not and can not verify the accuracy, correctness or completion of the information contained in this Report. Information is obtained from government agencies, site owners, and other sources, and errors are common in such information. Because Toxics Targeting, Inc. can not control the accuracy of the information contained in this Report, or the uses which may be made of the information, TOXICS TARGETING, INC. DISCLAIMS LIABILITY TO ANYONE FOR ANY EVENTS ARISING OUT OF THE USE OF THE INFORMATION. TOXICS TARGETING, INC. SHALL NOT BE LIABLE FOR ANY DAMAGE CAUSED BY THIS REPORT, WHETHER DIRECT OR INDIRECT, AND WHETHER OR NOT TOXICS TARGETING, INC. HAS BEEN ADVISED OF OR HAS KNOWLEDGE OF THE POSSIBILITY OF SUCH DAMAGES. TOXICS TARGETING, INC. EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.

Period of Warranty

The period of warranty coverage is ninety days from the date of purchase of this Report. There shall be no warranty after the period of coverage. ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR USE SHALL HAVE NO GREATER DURATION THAN THE PERIOD OF WARRANTY STATED HERE, AND SHALL TERMINATE AUTOMATICALLY UPON THE EXPIRATION OF SUCH PERIOD. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you.

PLEASE REFER TO PAGES ONE AND FIVE FOR A DESCRIPTION OF SOME OF THE LIMITATIONS OF THIS ENVIRONMENTAL REPORT.

Table of Contents

Introduction..... **1**

- *The Three Sections of Your Report*
- *How to Use Your Report*
- *Toxic Site Databases Analyzed In Your Report*
- *Limitations Of the Information In Your Report*

Section One: Your Report Summary..... **7**

- *Table One:* *Number of Identified Toxic Sites By Distance Interval*
- *Table Two:* *Identified Toxic Sites By Direction*
- *Table Three:* *Identified Toxic Sites By Category*
- *Table Four:* *Identified Toxic Sites By Proximity*
- *Map One:* *One-Mile Radius Map*
- *Map Two:* *Half-Mile Radius Map*
- *Map Three:* *Eighth-Mile Radius Map*
- *Map Four:* *Eighth-Mile Radius Close-up Map*
- *Map Five:* *Tax Parcel Map*
- *Table Five:* *Tax Parcel Map Information Table*

Section Two: Toxic Site Profiles

Section Three: Appendices

- *USEPA ERNS Check*
- *Unmappable Sites*
- *Hazardous Waste Codes*
- *Information Source Guide*

© Toxics Targeting, Inc. 2013

Introduction

Toxics Targeting has combined environmental database searches, extensive regulatory analysis and sophisticated mapping techniques to produce your *Environmental Report*. It checks for the presence of 25 categories of government-reported toxic sites and provides detailed, up-to-date information on each identified site. The findings of your report are presented in an easy-to-understand format that:

1. ***Maps*** the approximate locations of selected government-reported toxic sites identified on or near a specified target address.

2. ***Estimates*** the distance and direction between the target address and each identified toxic site.

3. ***Reports*** air and water permit non-compliance and other regulatory violations.

4. ***Profiles*** some aspects of the usage, manufacture, storage, handling, transport or disposal of toxic chemicals at individual sites.

5. ***Summarizes*** some potential health effect information and drinking water standards for selected chemicals reported at individual sites.

The Three Sections Of Your Report

The first section highlights your report's findings by summarizing identified sites according to: **a)** distance intervals, **b)** direction, **c)** proximity to the target address and **d)** individual site categories. In addition, the locations of all identified toxic sites are illustrated on individual maps for each radius search distance used in your report. A close-up map illustrates the locations of all identified toxic sites, at the shortest radius search distance used in your report. Finally, a map of tax parcels and a table of selected information about those parcels are included.

The second section of your report contains *Toxic Site Profiles* that provide detailed information on each identified toxic site. The information in each *Toxic Site Profile* varies according to its source. Some toxic site categories have extensive information and some have limited information. All the information is updated on a regular basis.

The third section of the report contains appendices that identify: **1)** on-site spills reported to the national Emergency Response Notification System (ERNS), **2)** various toxic sites that cannot be mapped due to incomplete or erroneous addresses or other mapping problems, **3)** codes that characterize hazardous wastes reported at various facilities, **4)** methods used to map toxic sites identified in your report and **5)** information sources used in your report.

How to Use Your Report

- Check Table One to see the number of <u>identified sites by distance intervals</u>.

- Check Table Two to see identified sites sorted by <u>direction</u>.

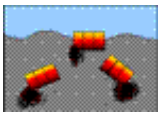
- Check Table Three to see identified sites ranked by <u>proximity to the target address</u>.

- Check Table Four to see identified sites <u>sorted by site categories</u>.

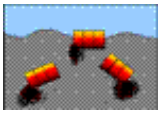
- Use Table Five to get info for the subject parcel and every parcel found on the Tax Parcel Map
- Refer to the various maps to see the locations of identified toxic sites. Refer to the *Toxic Site Profile* and *Appendix* sections for additional information.

Toxic Site Databases Analyzed In Your Report

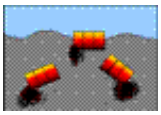
Search Radius

One-Mile 

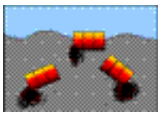
1) ***National Priority List for Federal Superfund Cleanup****:* a listing of sites known to pose environmental or health hazards that are being investigated or cleaned up under the Federal Superfund program.

Half-Mile 

2) ***Delisted National Priority List Sites****:* a listing of NPL sites that have been removed from the National Priority List.

One-Mile 

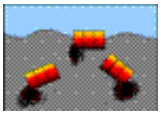
3) ***New York Inactive Hazardous Waste Disposal Site Registry****:* a state listing of sites that can pose environmental or public health hazards requiring investigation or clean up.

One-Mile 

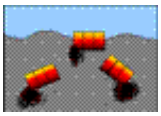
4) ***New York Inactive Hazardous Waste Disposal Site Registry Qualifying****:* a state listing of sites that qualify for possible inclusion to the NYDEC Inactive Haz. Waste Disposal Site Registry.

One-Mile

5) ***RCRA Corrective Action Activity (CORRACTS):*** waste facilities with RCRA corrective action activity reported by the USEPA.

Half-Mile 

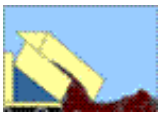
6) ***CERCLIS*** (Comprehensive Environmental Response, Compensation and Liability Information System): a federal listing of Non-NFRAP sites that can pose environmental or public health hazards requiring investigation or clean up.

Half-Mile 

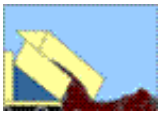
7) ***CERCLIS NFRAP:*** a federal listing of CERCLIS sites that have no further remedial action planned.

Half-Mile

8) ***New York State Brownfield Cleanup Sites****:* a listing of sites that are abandoned, idled or under-used industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Half-Mile 

9) ***New York Solid Waste Facilities Registry****:* active and inactive landfills, incinerators, transfer stations or other solid waste management facilities.

Half-Mile 

10) ***New York City 1934 Solid Waste Sites****:* a listing of solid waste disposal sites operated by New York City municipal authorities circa 1934.

Half-Mile

11) ***New York and Federal Hazardous Waste Treatment, Storage or Disposal Facilities****:* sites reported by the NYS manifest system and the USEPA's Resource Conservation and Recovery Act Information System (RCRIS). Also includes the following database:

- ***RCRA violations:*** waste facilities with violations reported by the USEPA pursuant to the Resource Conservation and Recovery Act.

Half-Mile

12) ***Toxic Spills: active and inactive or closed*** spills reported to state environmental authorities, including *remediated* and *unremediated* leaking underground storage tanks. This database includes the following categories:

- Tank Failures
- Tank Test Failures
- Unknown Spill Cause or Other Spill Causes
- Miscellaneous Spill Causes

Eighth-Mile

13) ***New York State Major Oil Storage Facilities****:* sites with more than a 400,000 gallon capacity for storing petroleum products.

Eighth-Mile

14) ***New York State Petroleum Bulk Storage Facilities****:* sites with more than an 1,100 gallon capacity for storing petroleum products.

Eighth-Mile

15) ***New York City Fire Dept Tank Data****:* tank data from 1997.

Eighth-Mile

16) ***New York and Federal Hazardous Waste Generators and Transporters****:* sites reported by the NYS manifest system and the USEPA's Resource Conservation and Recovery Act Information System (RCRA). Also includes the following database:

- ***RCRA violations:*** waste facilities with violations reported by the USEPA pursuant to the Resource Conservation and Recovery Act.

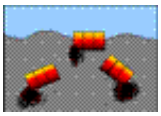
Eighth-Mile

17) ***New York Chemical Bulk Storage Facilities****:* sites storing hazardous substances listed in 6 NYCRR Part 597 in aboveground tanks with capacities of 185 gallons or more and/or underground tanks of any size

Eighth-Mile

18) ***Historic New York City Utility Sites (1890's to 1940's)****:* power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites.

Half-Mile



19) ***New York Hazardous Substance Disposal Site Draft Study****:* a state listing of sites contaminated with toxic substances that can pose environmental or public health hazards. These sites were not eligible for state clean up funding programs.

Eighth-Mile

20) ***Federal Toxic Release Inventory Facilities****:* discharges of selected toxic chemicals to air, land, water or treatment facilities.

Eighth-Mile

21) ***Federal Air Discharges****:* air pollution point sources monitored by U.S. EPA and/or state and local air regulatory agencies.

Eighth-Mile

22) ***Federal Permit Compliance System Toxic Wastewater Discharges:*** permitted toxic wastewater discharges.

Eighth-Mile

23) ***Federal Civil and Administrative Enforcement Docket****:* judiciary cases filed on behalf of the U. S. Environmental Protection Agency by the Department of Justice.

On-site only (250 ft)

24) ***New York City Environmental Quality Review (CEQR) – E Designation Sites****:* parcels assigned a special environmental ("E") designation under the CEQR process. E designation requires specific protocols that must be followed.

Property only

25) ***ERNS: Federal Emergency Response Notification System Spills****:* a listing of federally reported spills.

Limitations Of The Information In Your Report

The information presented in your *Environmental Report* has been obtained from various local, state and federal government agencies. Please be aware that: **1)** additional information on individual sites may be available, **2)** newly discovered sites are continually reported and **3)** all map locations are approximate. As a result, this report is intended to be the FIRST STEP in the process of identifying and evaluating possible environmental threats to specific properties and can only serve as a guide for conducting on-site visits or additional, more detailed toxic hazard research.

Toxics Targeting tries to ensure that the information in your report is presented accurately and with minimal alteration. Systematic changes are made to correct obvious address errors in order to allow sites to be mapped. Any address changes that are made are noted in the map information section at the top of each corresponding *Toxic Site Profile*. Some information that has been withheld by government authorities remains included in Toxic Site Profiles and is identified as archival information. Since the information presented in your report is not edited, please be aware that it can contain reporting errors or typographical mistakes made by the site owners/operators or government agencies that produced the information. Also please be aware of some other limitations of the information in your report:

- The digital map used by *Toxics Targeting* is the same one used by the U. S. Census or local authorities in New York City. While the map is generally accurate, no map is perfect. In addition, *Toxics Targeting's* mapping methods estimate where toxic site addresses are located if the address is not specifically designated. FOR THESE REASONS, ALL MAP LOCATIONS OF ADDRESSES AND REPORTED TOXIC SITES SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE VERIFIED BY ON-SITE VISITS;

- UNDISCOVERED, UNREPORTED OR UNMAPPABLE TOXIC SITES MIGHT NOT BE IDENTIFIED BY THIS REPORT'S CHECK OF 25 TOXIC SITE CATEGORIES. TOXIC SITES REPORTED IN OTHER GOVERNMENT DATABASES MIGHT ALSO EXIST. FOR THESE REASONS, YOUR REPORT MIGHT NOT IDENTIFY ALL THE TOXIC SITES THAT EXIST IN THE AREA IT SEARCHES;

- The appendix of your report contains a listing of sites that could not be mapped due to incomplete or erroneous address information or other mapping problems. This listing includes unmappable toxic sites in the zip codes searched for the report as well as toxic sites without zip codes reported in the same county. IF YOU WOULD LIKE INFORMATION ON ANY OF THE LISTED SITES, PLEASE CONTACT *TOXICS TARGETING AND REFER TO THE SITE ID NUMBER.*

- New York State Department of Environmental Conservation Remediation Site Borders are approximate and may not align with tax parcel boundaries mapped by local authorities or the digital map used by the US Census Bureau. As a result, Remediation Site Borders may overlap parcels that do not involve site remediation activities. Selected parcels also can involve multiple Remediation Site Borders. Refer to individual site profiles for more information. Sites without profiles include potential new sites or sites that have not yet been publicly listed by DEC.

- Some toxic sites identified in your report may be classified as **known hazards**. Most of the toxic sites identified in your report involve **potential hazards** related to the on-site use, manufacture, handling, storage, transport or disposal of toxic chemicals. <u>Some of the toxic sites identified in your report may be the addresses of parties responsible for toxic sites located elsewhere</u>. YOU SHOULD ONLY CONCLUDE THAT TOXIC HAZARDS ACTUALLY EXIST AT A SPECIFIC SITE WHEN GOVERNMENT AUTHORITIES MAKE THAT DETERMINATION OR WHEN THAT CONCLUSION IS FULLY DOCUMENTED BY THE FINDINGS OF AN APPROPRIATE SITE INVESTIGATION UNDERTAKEN BY LICENSED PROFESSIONALS;

- Compass directions and distances are approximate. Compass directions are calculated from the subject property address to the mapped location of each identified toxic site. The compass direction does not necessarily refer to the closest property boundary of an identified toxic site. The compass direction also can vary substantially for toxic sites that are located very close to the subject property address.

- The information presented in your report is a summary of the information that *Toxics Targeting* obtains from government agencies on reported toxic sites. YOU MAY BE ABLE TO OBTAIN ADDITIONAL INFORMATION ABOUT REPORTED SITES WITH THE FREEDOM OF INFORMATION REQUEST FORM LETTERS THAT ARE PROVIDED ON THE INSIDE OF THE BACK COVER.

Section One:

Report Summary

- *Table One:* *Number of Identified Toxic Sites By Distance Interval*
- *Table Two:* *Identified Toxic Sites By Direction*
- *Table Three:* *Identified Toxic Sites By Category*
- *Table Four:* *Identified Toxic Sites By Proximity*
- *Map One:* *One-Mile Radius Map*
- *Map Two:* *Half-Mile Radius Map*
- *Map Three:* *Eighth-Mile Radius Map*
- *Map Four:* *Eighth-Mile Radius Close up Map*
- *Map Five:* *Tax Parcel Map*
- *Table Five:* *Tax Parcel Map Information Table*

NUMBER OF IDENTIFIED SITES BY DISTANCE INTERVAL

Database Searched	0 − 100 ft	100 ft − 1/8 mi	1/8 mi − 1/4 mi	1/4 mi − 1/2 mi	1/2 mi − 1 mi	Site Category Totals
ASTM−Required 1 Mile Search						
National Priority List (NPL) Sites	0	0	0	0	1	1
NYS Inactive Hazardous Waste Disposal Site Registry	0	1	0	1	12	14
NYS Inactive Haz Waste Disposal Site Registry Qualifying	0	0	0	0	3	3
RCRA Corrective Action (CORRACTS) Sites	0	0	0	0	0	0
ASTM−Required 1/2 Mile Search						
Delisted National Priority List (NPL) Sites	0	0	0	0	Not searched	0
CERCLIS Superfund Non−NFRAP Sites	0	0	0	0	Not searched	0
CERCLIS Superfund NFRAP Sites	0	1	0	0	Not searched	1
Brownfields Sites						
Voluntary Cleanup Program	0	0	0	0	Not searched	0
Environmental Restoration Program	0	0	0	0	Not searched	0
Brownfield Cleanup Program	0	0	0	0	Not searched	0
NYSDEC Solid Waste Facilities / Landfills	0	0	0	0	Not searched	0
RCRA Hazardous Waste Treatment, Storage, Disposal Sites	0	0	0	0	Not searched	0
NYS Toxic Spills						
Active Tank Failures	0	1	0	0	Not searched	1
Active Tank Test Failures	0	0	2	0	Not searched	2
Active Spills − Unknown / Other Causes	0	0	2	8	Not searched	10
Active Spills − Miscellaneous Causes	0	1	0	1(5)	Not searched	2(5)
Closed Tank Failures	0	1	1	4	Not searched	6
Closed Tank Test Failures	0	1	2	11	Not searched	14
Closed Spills − Unknown / Other Causes	0	12	25	104	Not searched	141
Closed Spills − Miscellaneous Causes	0	4	2(18)	8(69)	Not searched	14(87)
ASTM−Required Property & Adjacent Property (1/8 Mile Search)						
NYS Major Oil Storage Facilities	0	0	Not searched	Not searched	Not searched	0
Local & State Petroleum Bulk Storage Sites	0	14	Not searched	Not searched	Not searched	14
RCRA Hazardous Waste Generators & Transporters	0	17	Not searched	Not searched	Not searched	17
NYS Chemical Bulk Storage Sites	0	0	Not searched	Not searched	Not searched	0
Historic Utility Facilities	0	0	Not searched	Not searched	Not searched	0
ASTM−Required On−Site Only Search						
NYC Environmental Quality Review Requirements ("E") Sites*	3	10	Not searched	Not searched	Not searched	13
Emergency Response Notification System (ERNS)	0	Not searched	Not searched	Not searched	Not searched	0
Institutional Controls / Engineering Controls (IC/EC)	See databases for NPL, CERCLIS, Inactive Hazardous Waste Disposal Site Registry and Brownfield Sites.					
ASTM−Required Databases Distance Interval Totals	**3**	**63**	**34(18)**	**137(74)**	**16**	**253(92)**

Numbers in ( ) indicate spills not mapped and profiled in this report, and are listed at the end of the active and closed spills sections. See these lists for a description of the parameters involved with identifying these spills.

* NYC Environmental Quality Review Requirements ("E") Sites were searched at 250 feet.

NOTE: Table continues on next page.

Non−ASTM Databases 1/2 Mile Search						
1934 NYC Municipal Waste Landfills	0	0	0	0	Not searched	0
Hazardous Substance Waste Disposal Sites	0	1	0	0	Not searched	1
Non−ASTM Databases 1/8 Mile Search						
Toxic Release Inventory Sites (TRI)	0	0	Not searched	Not searched	Not searched	0
Permit Compliance System (PCS) Toxic Wastewater Discharges	0	0	Not searched	Not searched	Not searched	0
Air Discharges	0	1	Not searched	Not searched	Not searched	1
Civil & Administrative Enforcement Docket Facilities	0	1	Not searched	Not searched	Not searched	1
Non−ASTM Databases Distance Interval Totals	**0**	**3**	**0**	**0**	**Not Searched**	**3**
Distance Interval Totals	***3***	***66***	***34(18)***	***137(74)***	***16***	***256(92)***

Numbers in ( ) indicate spills not mapped and profiled in this report, and are listed at the end of the active and closed spills sections. See these lists for a description of the parameters involved with identifying these spills.

Identified Toxic Sites by Direction

415 Manhattan Avenue
Brooklyn, NY 11222

* Compass directions can vary substantially for sites located very close to the subject property address.

Sites less than 100 feet from subject property sorted by distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
245		BLOCK: 2723 LOT: 30	0 feet	NYC Env. Qual. Review−"E" Designation
246		BLOCK: 2723 LOT: 29	26 feet to the NW*	NYC Env. Qual. Review−"E" Designation
247		BLOCK: 2723 LOT: 33	87 feet to the S*	NYC Env. Qual. Review−"E" Designation

Sites between 100 ft and 660 ft from the subject property sorted by direction and distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
59	COMMERCIAL PROPERTY	120 NEWTON AVENUE	373 feet to the N	Closed Status Spill (Unk/Other Cause)
66	CHLORINE FACTORY	126 NEWTON ST	474 feet to the N	Closed Status Spill (Unk/Other Cause)
243	ELLI WOODWORKING INDUSTRIES	121−125 NEWTON STREET	595 feet to the N	Air Discharge Site
252		BLOCK: 2724 LOT: 7	180 feet to the NNE*	NYC Env. Qual. Review−"E" Designation
255		BLOCK: 2724 LOT: 10	217 feet to the NNE	NYC Env. Qual. Review−"E" Designation
219	TRICO ELECTRICAL CORP.	495 GRAHAM AVE	517 feet to the NNE	Petroleum Bulk Storage Site
42	UNITED AMBULETTE	495 GRAHAM AVE	523 feet to the NNE	Closed Status Tank Test Failure
250		BLOCK: 2724 LOT: 1	125 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
251		BLOCK: 2724 LOT: 37	152 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
242	CITY BARREL	421 MEEKER STREET	188 feet to the ENE*	Hazardous Substance Waste Disposal Site
230	CITY BARREL & DRUM CO INC	421 MEEKER AVE	190 feet to the ENE*	Hazardous Waste Generator/Transporter
253		BLOCK: 2724 LOT: 34	191 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
2	CITY BARREL CO.	421−429 MEEKER STREET	198 feet to the ENE*	NYSDEC Inactive Haz Waste Disposal Site
20	CITY BARREL	421−429 MEEKER ST	198 feet to the ENE*	CERCLIS Superfund NFRAP Site
256		BLOCK: 2724 LOT: 33	221 feet to the ENE	NYC Env. Qual. Review−"E" Designation
257		BLOCK: 2724 LOT: 31	247 feet to the ENE	NYC Env. Qual. Review−"E" Designation
197	BROOKLYN QUEENS EXPRESS	GRAHAM AVE EAST BOUND DIR	466 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
233	NYSDOT BIN 106560A	I−278 EB OVER GRAHAM AVE	466 feet to the ENE	Hazardous Waste Generator/Transporter
234	NYSDOT BIN 106560B	I−278 WB OVER GRAHAM AVE	466 feet to the ENE	Hazardous Waste Generator/Transporter
56	TRANSMISSION MANHOLE 71303	MEEKER AND RICHARDSON ST	137 feet to the SE*	Closed Status Spill (Unk/Other Cause)
225	CONSOLIDATED EDISON	MEEKER AVE & RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
226	CONSOLIDATED EIDSON	MEEKER & MANHATTAN MH64805	137 feet to the SE*	Hazardous Waste Generator/Transporter
227	CONSOLIDATED EDISON	MEEKER−N−RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
228	CONSOLIDATED EDISON	MEEKER & RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
229	NYSDOT BIN 1065609	I−278 OVER MANHATTAN AVE	137 feet to the SE*	Hazardous Waste Generator/Transporter
63	INTERSECTION FROM MANHOLE 4917	MANHATTAN AVE AND FROST ST	413 feet to the SSE	Closed Status Spill (Unk/Other Cause)

198	GELFAND RES.	398 MANHATTAN AVE	468 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
199	INTERMASTER	387 MANHATTAN AVE	491 feet to the S	Closed Status Spill (Misc. Spill Cause)
217	INTER MASTER CORP	387 MANHATTAN AVE.	494 feet to the S	Petroleum Bulk Storage Site
218	DAMATO SALES & SERVICES	104 FROST ST	497 feet to the S	Petroleum Bulk Storage Site
200	375 MANHATTAN AVENUE	375 MANHATTAN AVENUE	620 feet to the S	Closed Status Spill (Misc. Spill Cause)
248		BLOCK: 2723 LOT: 36	104 feet to the SW*	NYC Env. Qual. Review−"E" Designation
249		BLOCK: 2723 LOT: 37	123 feet to the SW*	NYC Env. Qual. Review−"E" Designation
213	278 FUEL STOP, INC.	392 LEONARD STREET	386 feet to the SW	Petroleum Bulk Storage Site
214	A−I AUTO REPAIRS INC.	392 LEONARD STREET	386 feet to the SW	Petroleum Bulk Storage Site
36	GAS STATION	392 LEONARD STREET	388 feet to the SW	Closed Status Tank Failure
60		392 LEONARD STREET	388 feet to the SW	Closed Status Spill (Unk/Other Cause)
61	CONSTUCTION SITE	392 LEONARD STREET	388 feet to the SW	Closed Status Spill (Unk/Other Cause)
34	FEEDER 61	MEEKER AVE & LEONARD ST	564 feet to the SW	Active Haz Spill (Misc. Spill Cause)
67	MANHOLE 64805	MEECKER AVE A DN FROST ST	564 feet to the SW	Closed Status Spill (Unk/Other Cause)
237	CONSOLIDATED EDISON	MH64805−MEEKER AVE & FROST ST	564 feet to the SW	Hazardous Waste Generator/Transporter
238	CONSOLIDATED EDISON	MEEKER AVE AND FROST ST	564 feet to the SW	Hazardous Waste Generator/Transporter
239	CONSOLIDATED EDISON	MEEKER AVE & FROST ST − MH64805	564 feet to the SW	Hazardous Waste Generator/Transporter
221	MOBILE SYSTEMS UNIT	75 FROST STREET	584 feet to the SW	Petroleum Bulk Storage Site
222	ALL BORO	391 LEONARD STREET	584 feet to the SW	Petroleum Bulk Storage Site
223	FRATELLI RICATTO	391 LEONARD ST	584 feet to the SW	Petroleum Bulk Storage Site
240	NYCDEP	75 FROST ST	592 feet to the SW	Hazardous Waste Generator/Transporter
241	NYCDEP	75 FROST ST	592 feet to the SW	Hazardous Waste Generator/Transporter
211	ISRAEL M DOLGIN ASSOC	101 RICHARDSON STREET	197 feet to the WSW*	Petroleum Bulk Storage Site
254		BLOCK: 2723 LOT: 38	202 feet to the WSW	NYC Env. Qual. Review−"E" Designation
57	SERVICE BOX	87 RICHARDSON ST	313 feet to the WSW	Closed Status Spill (Unk/Other Cause)
58	MANHOLE (UNK #)	87 RICHARDSON ST	313 feet to the WSW	Closed Status Spill (Unk/Other Cause)
212	ISREAL M DOLGIN ASSC	87 RICHARDSON ST	313 feet to the WSW	Petroleum Bulk Storage Site
235	GRAF AIR	407 LEONARD ST	477 feet to the WSW	Hazardous Waste Generator/Transporter
220	FDNY ENGINE 229 / LADDER 146	75 RICHARDSON STREET	548 feet to the WSW	Petroleum Bulk Storage Site
236	NYC FIRE DEPT ENGINE CO 229	75 RICHARDSON ST	551 feet to the WSW	Hazardous Waste Generator/Transporter
21	ENGINE CO. 229 FDNY −DDC	76 RICHARDSON STREET	558 feet to the WSW	Active Tank Failure
62	VS 3971	BAYARD ST/LENARD ST	407 feet to the W	Closed Status Spill (Unk/Other Cause)
232	CONSOLIDATED EDISON	BAYARD ST & LEONARD ST	407 feet to the W	Hazardous Waste Generator/Transporter
64	COMMERCIAL LOT	407 LEONARD STREET/BAYARD	459 feet to the W	Closed Status Spill (Unk/Other Cause)
65	COMMERCIAL LOT	407 LEONARD ST	459 feet to the W	Closed Status Spill (Unk/Other Cause)
216	D L BRENNER & SONS INC	407 LEONARD ST	469 feet to the W	Petroleum Bulk Storage Site
224	CREST BODY EQUIP CRP	72 BAYARD ST	595 feet to the W	Petroleum Bulk Storage Site
231	NYC BOARD OF EDUCATION PS 126 K	424 LEONARD ST	366 feet to the NW	Hazardous Waste Generator/Transporter
215	JUNIOR HIGH SCHOOL 126 − BROOKLYN	424 LEONARD STREET	433 feet to the NW	Petroleum Bulk Storage Site
244	NYC BD OF ED − JUNIOR HIGH SCH	424 LEONARD STREET	368 feet to the NNW	Civil & Admin. Enforcement Docket Site

Sites equal to or greater than 660 ft from subject property sorted by direction and distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category

87	GREEN POINT CAR WASH, INC.	(AKA AUTOCLEAN CARWASH, INC.)	1028 feet to the N	Closed Status Spill (Unk/Other Cause)
97	MANHOLE #TM 633	NEWELL ST & DRIGGS AV	1429 feet to the N	Closed Status Spill (Unk/Other Cause)
116	MCGINNESS AVE BETWEEN	NASSAU AVE DRIBBS AVE	1739 feet to the N	Closed Status Spill (Unk/Other Cause)
121	RESIDENCE	41 NEWELL ST	1788 feet to the N	Closed Status Spill (Unk/Other Cause)
135	44 NEWELL STREET	44 NEWELL STREET	1890 feet to the N	Closed Status Spill (Unk/Other Cause)
173	VAULT TM613	HUMBOLDT ST. AND NASSAU A	2420 feet to the N	Closed Status Spill (Unk/Other Cause)
14	CARBONA PRODUCTS	330 CALYER STREET	4147 feet to the N	NYSDEC Inactive Haz Waste Registry Qual.
131	625 HUMBOLDT STREET	625 HUMBOLDT STREET	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
183	MANHOLE 63577	NASSAU AVE/RUSSELL ST	2517 feet to the NNE	Closed Status Spill (Unk/Other Cause)
184	MANHOLE #64589	RUSSELL & NASSAU ST	2517 feet to the NNE	Closed Status Spill (Unk/Other Cause)
7	FORMER SPIC AND SPAN CLEANERS AND DYERS, INC.	315 KINGSLAND AVENUE	3347 feet to the NNE	NYSDEC Inactive Haz Waste Disposal Site
12	MOBIL OIL BROOKLYN TERMINAL	300 N. HENRY ST.	3966 feet to the NNE	NYSDEC Inactive Haz Waste Disposal Site
81	MANHOLE 55946B	HUMBOLT ST MCGUINESS ST	883 feet to the NE	Closed Status Spill (Unk/Other Cause)
24	SUNOCO SERVICE STATION	550 HUMBOLDT ST	988 feet to the NE	Active Haz Spill (Unknown/Other Cause)
22	MOBIL S/S #17−FX9	550 HUMBOLDT STREET	996 feet to the NE	Active Tank Test Failure
83	FORMER GAS	550 HUMBOLT ST	996 feet to the NE	Closed Status Spill (Unk/Other Cause)
84	MONITORING WELL	550 HUMBOLDT STREET	996 feet to the NE	Closed Status Spill (Unk/Other Cause)
148	NYS DOT − BQE	KINGSLAND & MEEKER AVES	2022 feet to the NE	Closed Status Spill (Unk/Other Cause)
150	MONITOR ST & DRIGGS AVE	MONITOR ST & DRIGGS AVE	2062 feet to the NE	Closed Status Spill (Unk/Other Cause)
176	SERVICE BOX 12690	206 KINGSLAND AVE	2448 feet to the NE	Closed Status Spill (Unk/Other Cause)
78	BRONX QUEENS EXPRESSWAY	EXIT 33 MCGUINNESS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
79	BROOKLYN/QUEENS EXPWY	AND MCGINNIS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
80	IN ROADWAY	BROOKLYN QUEENS EXPRESSWAY @ MCGUINNESS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
201	MCGUINESS BLVD & BQE	MCGUINESS BLVD & BQE	872 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
202	43 HERBERT STREET,BKLYN/R	43 HERBERT ST	970 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
114	SERVICE BOX #12699	107 KINGSLAND AVE	1730 feet to the ENE	Closed Status Spill (Unk/Other Cause)
205	TM 640	HERBERT ST & KINGSLAND AVE	1822 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
133	104 KINGSLAND AVE/BKLYN	104 KINGSLAND AVENUE	1875 feet to the ENE	Closed Status Spill (Unk/Other Cause)
139	DOUBLE GREEN	122 KINGSLAND AVENUE	1932 feet to the ENE	Closed Status Spill (Unk/Other Cause)
143	18 DIVISION PL/BKLYN	18 DIVISION PLACE	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
144	GOODMAN BROT STEEL DRUMS	18 DIVISION ST	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
145	GOODMAN BROT STEEL DRUMS	18 DIVISION PL	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
156	SERVICE VS5743	BEADEL ST/DEBEVOISE ST	2107 feet to the ENE	Closed Status Spill (Unk/Other Cause)
208	NATIONAL DRUM	35 BEADEL STREET	2302 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
50	BUSINESS	32 BEADEL STREET	2316 feet to the ENE	Closed Status Tank Test Failure
174	CON EDISON MANHOLE 12371	53 DIVISON PLACE	2435 feet to the ENE	Closed Status Spill (Unk/Other Cause)
209		505 MORGAN AVE	2497 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
188	MANHOLE #56358	DIVISION PL/MORGAN AVE	2570 feet to the ENE	Closed Status Spill (Unk/Other Cause)
189	MH #16092	MORGAN AVE & DIVISION PL	2570 feet to the ENE	Closed Status Spill (Unk/Other Cause)
191	535 MORGAN AVE	535 MORGAN AVE	2573 feet to the ENE	Closed Status Spill (Unk/Other Cause)
196	S & S PRINTING	488 MORGAN AVE	2639 feet to the ENE	Closed Status Spill (Unk/Other Cause)
210		ANTHONY ST/MORGAN AVE	2639 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
6	ACME STEEL/METAL WORKS	95 LOMBARDY STREET	3157 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
9	ACME STEEL/BRASS FOUNDRY	72 ANTHONY STREET	3641 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
17	K − GREENPOINT MGP − ENERGY CENTER	287 MASPETH AVENUE	4763 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
74	PRIVATE DWELLING	184 RICHARDSON STREET	861 feet to the E	Closed Status Spill (Unk/Other Cause)
75	SUMNER RESIDENCE	184 RICHARDSON ST	861 feet to the E	Closed Status Spill (Unk/Other Cause)
113	MANUFACTURING FACILITY	78 KINGSLAND AVE	1724 feet to the E	Closed Status Spill (Unk/Other Cause)
128	VS 5950	E SIDE KINGSLAND AVE/NEAR FROST ST	1838 feet to the E	Closed Status Spill (Unk/Other Cause)

129	VS5950 − VAULT	KINGSLAND AV/FROST ST	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
130	KINGSLAND & FROST AVENUE −MTBE	KINGSLAND AVENUE	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
51	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
52	COOPER PARK HOUSING −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
53	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
54	COOPER PARK	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
175	ONE QT OIL FOUND IN MANHOLE #2694	DEBEVOISE & JACKSON STREETS	2439 feet to the E	Closed Status Spill (Unk/Other Cause)
5	FORMER KLINK COSMO CLEANERS	364 RICHARDSON STREET	2857 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
11	K − EQUITY WORKS	MASPETH AND VANDERVORT AVES.	3888 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
18	B.C.F. OIL REFINING, INC.	360−362 MASPETH AVENUE, SOUTHSIDE	4895 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
27	MOBIL	51 KINGSLAND AVE	1825 feet to the ESE	Active Haz Spill (Unknown/Other Cause)
127	51 KINGLAND AVENUE	51 KINKGLAND AVE	1825 feet to the ESE	Closed Status Spill (Unk/Other Cause)
136	APARTMENT BLDG	243 JACKSON STREET	1901 feet to the ESE	Closed Status Spill (Unk/Other Cause)
39	RESIDENCE	243 JACKSON STREET	1927 feet to the ESE	Closed Status Tank Failure
142	SANITATION COMPANY	244 SKILLMAN AVE	1986 feet to the ESE	Closed Status Spill (Unk/Other Cause)
147	CON ED VAULT #4233	JACKSON/KINGSLEY	2021 feet to the ESE	Closed Status Spill (Unk/Other Cause)
1	NEWTOWN CREEK	SOUTH END OF IVY HILL ROAD	4730 feet to the ESE	National Priority List(NPL) Site
16	NEWTOWN CREEK	NEWTOWN CREEK (BETWEEN BROOKLYN AND QUEENS)	4730 feet to the ESE	NYSDEC Inactive Haz Waste Disposal Site
69	PAINT FACTORY	415 GRAHAM AVE	770 feet to the SE	Closed Status Spill (Unk/Other Cause)
120	387 HUMBOLDT ST/BKLYN	387 HUMBOLDT STREET	1785 feet to the SE	Closed Status Spill (Unk/Other Cause)
30	WOLF PETROLEUM CORP	2 BUSHWICK AVENUE	2099 feet to the SE	Active Haz Spill (Unknown/Other Cause)
48	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE	Closed Status Tank Test Failure
154	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE	Closed Status Spill (Unk/Other Cause)
33	HESS−MERIT STATION 32522	810 METROPOLITAN AVENUE	2241 feet to the SE	Active Haz Spill (Unknown/Other Cause)
49	810 METROPOLITAN AVE	810 METROPOLITAN AVENUE	2241 feet to the SE	Closed Status Tank Test Failure
207	810 METROPOLITAN AV/MERIT	810 METROPOLITAN AVENUE	2241 feet to the SE	Closed Status Spill (Misc. Spill Cause)
192	RESIDENCE	50 BUSHWICK AVE	2598 feet to the SE	Closed Status Spill (Unk/Other Cause)
19	K − SCHOLES ST. STATION	SCHOLES ST 7 BOGART STS, MESSEROLE & MORGAN AVE	5007 feet to the SE	NYSDEC Inactive Haz Waste Disposal Site
76	OLD PAINT FACTORY	133 JACKSON AVE	870 feet to the SSE	Closed Status Spill (Unk/Other Cause)
77	CONSTRUCTION SITE	133 JACKSON AVE	870 feet to the SSE	Closed Status Spill (Unk/Other Cause)
86	EXCAVATION	140 JACKSON STREET	1025 feet to the SSE	Closed Status Spill (Unk/Other Cause)
90	RESIDENCE	381 GRAHAM AVE APT 2	1190 feet to the SSE	Closed Status Spill (Unk/Other Cause)
103	SCHOOL	320 MANHATTAN AVE.	1570 feet to the SSE	Closed Status Spill (Unk/Other Cause)
88	CONSTRUCTION SITE	351 MANHATTAN AVE	1041 feet to the S	Closed Status Spill (Unk/Other Cause)
98	CORNOR OF CONSELYEA	MANHATTEN AVE	1450 feet to the S	Closed Status Spill (Unk/Other Cause)
100	GAS STATION	116 CONSELYEA STREET	1506 feet to the S	Closed Status Spill (Unk/Other Cause)
204	APARTMENT BLDG	677 METROPOLITAN AV	1609 feet to the S	Closed Status Spill (Misc. Spill Cause)
117	APPEARS THAT 20 GAL COOKING OIL	LEONARD ST & METROPOLITAN AVE	1747 feet to the S	Closed Status Spill (Unk/Other Cause)
165	MH 225	AINSLIE ST/LEONARD ST	2269 feet to the S	Closed Status Spill (Unk/Other Cause)
167	IFO HOUSE	143 AINSLIE ST	2293 feet to the S	Closed Status Spill (Unk/Other Cause)
182	MANHATTAN AVE & POWERS ST	MANHATTAN AVE / POWERS ST	2496 feet to the S	Closed Status Spill (Unk/Other Cause)
71		354 LEONARD ST	852 feet to the SSW	Closed Status Spill (Unk/Other Cause)
72		354 LEONARD ST	852 feet to the SSW	Closed Status Spill (Unk/Other Cause)
112	30 SKILLMAN AVE	30 SKILLMAN AVE	1692 feet to the SSW	Closed Status Spill (Unk/Other Cause)
137	BMT L LINE	LORIMER/METROPOLITIAN	1903 feet to the SSW	Closed Status Spill (Unk/Other Cause)
138	METROPOLITIAN AV AND	LORIMER ST	1903 feet to the SSW	Closed Status Spill (Unk/Other Cause)
149	MANHOLE 4939	564 METROPOLATAIN AVE	2061 feet to the SSW	Closed Status Spill (Unk/Other Cause)
160	MH4940	LORIMER ST/DEVOE ST	2150 feet to the SSW	Closed Status Spill (Unk/Other Cause)

206	522 METROPOLITAN AVE	522 METROPOLITAN AVE	2199 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
164	MAN HOLE #4934	UNION AVE / KEAP ST	2266 feet to the SSW	Closed Status Spill (Unk/Other Cause)
177	MANHOLE 4935	MANHOLE 4935	2463 feet to the SSW	Closed Status Spill (Unk/Other Cause)
187	433 UNION AVE	433 UNION AVE	2527 feet to the SSW	Closed Status Spill (Unk/Other Cause)
195	GAS STATION	417 UNION AVE	2633 feet to the SSW	Closed Status Spill (Unk/Other Cause)
68	59−65 FROST STREET	59−65 FROST STREET	730 feet to the SW	Closed Status Spill (Unk/Other Cause)
43	64 FROST ST	64 FROST STREET	822 feet to the SW	Closed Status Tank Test Failure
82	RESIDENCE	684 LORIMER ST	929 feet to the SW	Closed Status Spill (Unk/Other Cause)
89	MANHOLE #53380	MEEKER AVE/WITHERS ST	1085 feet to the SW	Closed Status Spill (Unk/Other Cause)
91	AMOCO STATION −MTBE	243 MEEKER AVENUE	1311 feet to the SW	Closed Status Spill (Unk/Other Cause)
92	UNDERGROUND	243 MEEKER AVE	1311 feet to the SW	Closed Status Spill (Unk/Other Cause)
203		526 UNION AVE	1586 feet to the SW	Closed Status Spill (Misc. Spill Cause)
109	GAS STATION	25 SKILLMAN AVE	1652 feet to the SW	Closed Status Spill (Unk/Other Cause)
110	25 SKILLMAN AVE	25 SKILLMAN AVE	1652 feet to the SW	Closed Status Spill (Unk/Other Cause)
115	MANHOLE 4930	UNION AVE/JACKSON ST	1737 feet to the SW	Closed Status Spill (Unk/Other Cause)
132	IN STREET	MEEKER AVE/ UNION AVE	1875 feet to the SW	Closed Status Spill (Unk/Other Cause)
45	CLOSED−LACKOF RECENT INFO	275 NORTH 8TH ST.	1899 feet to the SW	Closed Status Tank Test Failure
146	MANHOLE 16282	IFO 288 NO 8TH ST	2011 feet to the SW	Closed Status Spill (Unk/Other Cause)
3	BQE/ANSBACHER COLOR & DYE FACTORY	MEEKER AVENUE	2292 feet to the SW	NYSDEC Inactive Haz Waste Disposal Site
168	STAR SOAP AND CANDLE CO.	304 NORTH 7TH STREET	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
169	STAR SOAP AND CANDLE CO.	304 NORTH 7TH ST	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
170	310 N 7TH ST	310 N 7TH ST	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
178	TRAFFIC ACCIDENT	MEEKER AVE/METROPOLITAN A	2471 feet to the SW	Closed Status Spill (Unk/Other Cause)
41	UNICO GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW	Closed Status Tank Failure
185	GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW	Closed Status Spill (Unk/Other Cause)
37	68 RICHARDSON STREET	68 RICHARDSON STREET	742 feet to the WSW	Closed Status Tank Failure
70	704 LORIMER ST	704 LORIMER ST	825 feet to the WSW	Closed Status Spill (Unk/Other Cause)
94	CONSTRUCTION/EXCAVATION SITE	568 UNION AVENUE	1378 feet to the WSW	Closed Status Spill (Unk/Other Cause)
99	MANHOLE #4900	NORTH 11TH ST/UNION AVE	1477 feet to the WSW	Closed Status Spill (Unk/Other Cause)
107	MANHOLE 4925	WITHERS ST/UNION AV	1615 feet to the WSW	Closed Status Spill (Unk/Other Cause)
108	MANHOLE 53375	WITHERS ST/ UNION AVE	1615 feet to the WSW	Closed Status Spill (Unk/Other Cause)
118	WAREHOUSE	261 NORTH 9TH STREET	1767 feet to the WSW	Closed Status Spill (Unk/Other Cause)
119	MH 4927	HAVERMYER ST/N 9TH ST	1785 feet to the WSW	Closed Status Spill (Unk/Other Cause)
134	COMMERICAL VACANT LOT	235−239 N 9TH STREET	1882 feet to the WSW	Closed Status Spill (Unk/Other Cause)
29	PROPERTY	55 ROEBLING ST	2084 feet to the WSW	Active Haz Spill (Unknown/Other Cause)
153	AUNT HEDDY‘S BAKERY	234 NORTH 9TH STREET	2092 feet to the WSW	Closed Status Spill (Unk/Other Cause)
163	W OF ROBLING AV	N 8TH ST	2226 feet to the WSW	Closed Status Spill (Unk/Other Cause)
179	SUBWAY TRACKS−NYCT	257 NORTH 6TH ST	2471 feet to the WSW	Closed Status Spill (Unk/Other Cause)
181	LOT NEXT TO 583 DRIDGES	CRN DRIGGES AVE & 8TH	2481 feet to the WSW	Closed Status Spill (Unk/Other Cause)
73	INSIDE MCCARREN POOL	BAYARD AND LORIMER ST.	858 feet to the W	Closed Status Spill (Unk/Other Cause)
93	ABANDONED BUCKET	9 RICHARDSON ST	1321 feet to the W	Closed Status Spill (Unk/Other Cause)
38	UNKNOWN GAS STATION	2 ROEBLING ST	1566 feet to the W	Closed Status Tank Failure
102	GAS STATION	2 ROEBLING ST	1566 feet to the W	Closed Status Spill (Unk/Other Cause)
104	MANHOLE #4837	ROEBLING AVE/NORTH 11TH	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
105	CONSTRUCTION SITE	ROEBLING STR/NORTH 11TH	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
106	CONSTRUCTION SITE	NORTH 11TH ST & ROEBLING	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
111	BETWEN NORTH 10 /11TH	ROEBLING	1685 feet to the W	Closed Status Spill (Unk/Other Cause)
26	N 11TH STREET SIDEWALK	204−214 NORTH 11TH ST	1810 feet to the W	Active Haz Spill (Unknown/Other Cause)
122	CONSTRUCTION SITE	ROEBLING STREET	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
123	EXCAVATION	214 NORTH 11TH STREET	1810 feet to the W	Closed Status Spill (Unk/Other Cause)

124	EXCAVATION SITE	204−214 NORTH 11TH ST	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
125	AMONIUM HYDROCHLORIDE SPI	215 N. 10TH ST	1814 feet to the W	Closed Status Spill (Unk/Other Cause)
28	COMMERCIAL PROPERTY	454 DRIGGS AVE	1930 feet to the W	Active Haz Spill (Unknown/Other Cause)
141	COMMERCIAL PROPERTY	200 NORTH 11TH STREET	1951 feet to the W	Closed Status Spill (Unk/Other Cause)
155	213 NORTH 9TH STREET	213−217 NORTH 9TH STREET	2102 feet to the W	Closed Status Spill (Unk/Other Cause)
35	CONSTRUCTION SITE	95 BEDFORD AVE	2130 feet to the W	Active Haz Spill (Misc. Spill Cause)
157	105 BEDFORD AV	105 BEDFORD AVENUE	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
158	NEW APT BLDG/FORMER PAINT FACTORY	95 BEDFORD AVENUE	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
159	EIGHT GAL XFMR LEAK IN MANHOLE #1706	155 NORTH 11 ST (AT BEDFORD AVE).	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
162	HYDRO TECH	170 NORTH 11TH STREET	2208 feet to the W	Closed Status Spill (Unk/Other Cause)
32	169−175 NORTH 10TH STREET	169−175 NORTH 10TH STREET	2222 feet to the W	Active Haz Spill (Unknown/Other Cause)
166	VACANT LOT	165 NORTH 10TH ST	2280 feet to the W	Closed Status Spill (Unk/Other Cause)
171	VACANT/ COMMERCIAL	506 DRIGGS AVE	2367 feet to the W	Closed Status Spill (Unk/Other Cause)
180	CAMPBELL RESIDENCE	120 BEDFORD AVE	2473 feet to the W	Closed Status Spill (Unk/Other Cause)
55	F N W MECHANICAL	139 NORTH 10TH STREET	2554 feet to the W	Closed Status Tank Test Failure
193		BEDFORD AVE/N 9TH ST	2619 feet to the W	Closed Status Spill (Unk/Other Cause)
194	125 NORTH 10TH ST	125 NORTH 10TH ST	2621 feet to the W	Closed Status Spill (Unk/Other Cause)
4	K − WYTHE AVE. STATION	WYTHE AVE., BERRY ST., N 12TH & 13TH ST	2834 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
8	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	3567 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
10	BROOKLYN NORTH 1 GARAGE	50 KENT AVENUE	3858 feet to the WNW	NYSDEC Inactive Haz Waste Registry Qual.
13	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	4095 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
15	KENT TERMINAL	KENT AVE. BETWEEN N.5TH & N.11TH ST.	4336 feet to the WNW	NYSDEC Inactive Haz Waste Registry Qual.
95	MANHOLE 4379	DRIGGS AVE&MANHATTAN AVE	1394 feet to the NW	Closed Status Spill (Unk/Other Cause)
96	**DRILL** TM 755 **DRILL**	**DRILL** DRIGGS AVE/MANHATTAN AV	1394 feet to the NW	Closed Status Spill (Unk/Other Cause)
46	AUTOMOTIVE HIGH SCHOOL − TTF	50 BEDFORD AVENUE	2065 feet to the NW	Closed Status Tank Test Failure
47	PS 610	50 BEDFORD AVENUE	2065 feet to the NW	Closed Status Tank Test Failure
151	MANHOLE 4376 AND BEDFORD	AVE AND LOROMIER AVE	2069 feet to the NW	Closed Status Spill (Unk/Other Cause)
152	MH 4374	NASSAU AV/LAURAMAR AV	2069 feet to the NW	Closed Status Spill (Unk/Other Cause)
172	19 NASSAU AVE./CORNER OF	19 NASSAU AVE	2392 feet to the NW	Closed Status Spill (Unk/Other Cause)
85	CONSTRUCTION SITE	474 LEONARD STREET	1018 feet to the NNW	Closed Status Spill (Unk/Other Cause)
25	JOHN HULEY	498 LEONARD ST	1245 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
44	BRUMAR SHEET METAL INC	498 LEONARD STREET	1245 feet to the NNW	Closed Status Tank Test Failure
23	COMMERCIAL PROPERTY TTF	498 LEONARD ST	1253 feet to the NNW	Active Tank Test Failure
101	BOGUMIL HOME	101 ECKFORD STREET	1555 feet to the NNW	Closed Status Spill (Unk/Other Cause)
126	606 MANHATTAN AVENUE	606 MANHATTAN AVENUE	1822 feet to the NNW	Closed Status Spill (Unk/Other Cause)
40	ADAMS DELI	112 NASSAU AVE	1951 feet to the NNW	Closed Status Tank Failure
140	DELI	112 NASSAU AVE	1951 feet to the NNW	Closed Status Spill (Unk/Other Cause)
31	99 CENT STORE (DOLLAR UP STORE)	640 MANHATTAN AVE	2164 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
161	MANHOLE #4382	640 MANHATTAN AVE	2164 feet to the NNW	Closed Status Spill (Unk/Other Cause)
186	680 MANHATTAN AVE	680 MANHATTAN AVE	2525 feet to the NNW	Closed Status Spill (Unk/Other Cause)
190		IFO 100 MAGUNIS BLVD	2572 feet to the NNW	Closed Status Spill (Unk/Other Cause)

Identified Toxic Sites by Category

415 Manhattan Avenue
Brooklyn, NY 11222

* Compass directions can vary substantially for sites located very close to the subject property address.

National Priority List (NPL) Sites −− Total Sites − 1 — **Database searched at 1 MILE − ASTM required search distance: 1 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
1	NYN000206282	NEWTOWN CREEK	SOUTH END OF IVY HILL ROAD	4730 feet to the ESE

NYSDEC Inactive Haz. Waste Disposal Site Registry −− Total Sites − 14 — **Database searched at 1 MILE − ASTM required search distance: 1 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
2	224005	CITY BARREL CO.	421−429 MEEKER STREET	198 feet to the ENE*
3	224016	BQE/ANSBACHER COLOR & DYE FACTORY	MEEKER AVENUE	2292 feet to the SW
4	224069	K − WYTHE AVE. STATION	WYTHE AVE., BERRY ST., N 12TH & 13TH ST	2834 feet to the WNW
5	224130	FORMER KLINK COSMO CLEANERS	364 RICHARDSON STREET	2857 feet to the E
6	224131	ACME STEEL/METAL WORKS	95 LOMBARDY STREET	3157 feet to the ENE
7	224129	FORMER SPIC AND SPAN CLEANERS AND DYERS, INC.	315 KINGSLAND AVENUE	3347 feet to the NNE
8	224055	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	3567 feet to the WNW
9	224132	ACME STEEL/BRASS FOUNDRY	72 ANTHONY STREET	3641 feet to the ENE
11	224050	K − EQUITY WORKS	MASPETH AND VANDERVORT AVES.	3888 feet to the E
12	224013	MOBIL OIL BROOKLYN TERMINAL	300 N. HENRY ST.	3966 feet to the NNE
13	224055	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	4095 feet to the WNW
16	241117	NEWTOWN CREEK	NEWTOWN CREEK (BETWEEN BROOKLYN AND QUEENS)	4730 feet to the ESE
17	224052	K − GREENPOINT MGP − ENERGY CENTER	287 MASPETH AVENUE	4763 feet to the ENE
18	224034	B.C.F. OIL REFINING, INC.	360−362 MASPETH AVENUE, SOUTHSIDE	4895 feet to the E
19	224067	K − SCHOLES ST. STATION	SCHOLES ST 7 BOGART STS, MESSEROLE & MORGAN AVE.	5007 feet to the SE

Inactive Haz. Waste Disposal Site Registry Qualifying −− Total Sites − 3 — **Database searched at 1 MILE − ASTM required search distance: 1 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
10		BROOKLYN NORTH 1 GARAGE	50 KENT AVENUE	3858 feet to the WNW
14		CARBONA PRODUCTS	330 CALYER STREET	4147 feet to the N
15		KENT TERMINAL	KENT AVE. BETWEEN N.5TH & N.11TH ST.	4336 feet to the WNW

CERCLIS Superfund NFRAP Sites −− Total Sites − 1 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
20	NYD068298835	CITY BARREL	421−429 MEEKER ST	198 feet to the ENE*

Active Tank Failures −− Total Sites − 1 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
21	9703488	ENGINE CO. 229 FDNY −DDC	76 RICHARDSON STREET	558 feet to the WSW

Active Tank Test Failures −− Total Sites − 2 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
22	9007766	MOBIL S/S #17−FX9	550 HUMBOLDT STREET	996 feet to the NE
23	1206982	COMMERCIAL PROPERTY TTF	498 LEONARD ST	1253 feet to the NNW

Active Haz Spills (Unknown Causes & Other Causes) −− Total Sites − 10 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
24	1011266	SUNOCO SERVICE STATION	550 HUMBOLDT ST	988 feet to the NE
25	1205075	JOHN HULEY	498 LEONARD ST	1245 feet to the NNW
26	0750535	N 11TH STREET SIDEWALK	204−214 NORTH 11TH ST	1810 feet to the W
27	8908110	MOBIL	51 KINGSLAND AVE	1825 feet to the ESE
28	0703695	COMMERCIAL PROPERTY	454 DRIGGS AVE	1930 feet to the W

29	0503901	PROPERTY	55 ROEBLING ST	2084 feet to the WSW
30	0330060	WOLF PETROLEUM CORP	2 BUSHWICK AVENUE	2099 feet to the SE
31	0208256	99 CENT STORE (DOLLAR UP STORE)	640 MANHATTAN AVE	2164 feet to the NNW
32	0611495	169−175 NORTH 10TH STREET	169−175 NORTH 10TH STREET	2222 feet to the W
33	9502757	HESS−MERIT STATION 32522	810 METROPOLITAN AVENUE	2241 feet to the SE

Active Haz Spills (Miscellaneous Spill Causes) −− Total Sites − 2 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
34	9103785	FEEDER 61	MEEKER AVE & LEONARD ST	564 feet to the SW
35	0808463	CONSTRUCTION SITE	95 BEDFORD AVE	2130 feet to the W

Closed Status Tank Failures −− Total Sites − 6 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
36	0310672	GAS STATION	392 LEONARD STREET	388 feet to the SW
37	9312569	68 RICHARDSON STREET	68 RICHARDSON STREET	742 feet to the WSW
38	0008335	UNKNOWN GAS STATION	2 ROEBLING ST	1566 feet to the W
39	0409577	RESIDENCE	243 JACKSON STREET	1927 feet to the ESE
40	0013080	ADAMS DELI	112 NASSAU AVE	1951 feet to the NNW
41	9909193	UNICO GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW

Closed Status Tank Test Failures −− Total Sites − 14 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
42	0410348	UNITED AMBULETTE	495 GRAHAM AVE	523 feet to the NNE
43	9601530	64 FROST ST	64 FROST STREET	822 feet to the SW
44	0212132	BRUMAR SHEET METAL INC	498 LEONARD STREET	1245 feet to the NNW
45	8706710	CLOSED−LACKOF RECENT INFO	275 NORTH 8TH ST.	1899 feet to the SW
46	0900454	AUTOMOTIVE HIGH SCHOOL − TTF	50 BEDFORD AVENUE	2065 feet to the NW
47	0004062	PS 610	50 BEDFORD AVENUE	2065 feet to the NW
48	8900824	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE
49	9404715	810 METROPOLITAN AVE	810 METROPOLITAN AVENUE	2241 feet to the SE
50	0510292	BUSINESS	32 BEADEL STREET	2316 feet to the ENE
51	9515837	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E
52	9515713	COOPER PARK HOUSING −NYCHA	295 JACKSON ST	2357 feet to the E
53	9414384	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E
54	9414271	COOPER PARK	295 JACKSON ST	2357 feet to the E
55	0306649	F N W MECHANICAL	139 NORTH 10TH STREET	2554 feet to the W

Closed Status Spills (Unknown Causes & Other Causes) −− Total Sites − 141 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
56	1011703	TRANSMISSION MANHOLE 71303	MEEKER AND RICHARDSON ST	137 feet to the SE*
57	0008222	SERVICE BOX	87 RICHARDSON ST	313 feet to the WSW
58	0001500	MANHOLE (UNK #)	87 RICHARDSON ST	313 feet to the WSW
59	0408368	COMMERCIAL PROPERTY	120 NEWTON AVENUE	373 feet to the N
60	9900802		392 LEONARD STREET	388 feet to the SW
61	0610686	CONSTUCTION SITE	392 LEONARD STREET	388 feet to the SW
62	9900576	VS 3971	BAYARD ST/LENARD ST	407 feet to the W
63	1011113	INTERSECTION FROM MANHOLE 4917	MANHATTAN AVE AND FROST ST	413 feet to the SSE
64	0409303	COMMERCIAL LOT	407 LEONARD STREET/BAYARD	459 feet to the W
65	0130048	COMMERCIAL LOT	407 LEONARD ST	459 feet to the W
66	9809496	CHLORINE FACTORY	126 NEWTON ST	474 feet to the N
67	0904192	MANHOLE 64805	MEECKER AVE A DN FROST ST	564 feet to the SW
68	0212488	59−65 FROST STREET	59−65 FROST STREET	730 feet to the SW
69	0507793	PAINT FACTORY	415 GRAHAM AVE	770 feet to the SE

70	0106834	704 LORIMER ST	704 LORIMER ST	825 feet to the WSW
71	9909588		354 LEONARD ST	852 feet to the SSW
72	9814583		354 LEONARD ST	852 feet to the SSW
73	0907892	INSIDE MCCARREN POOL	BAYARD AND LORIMER ST.	858 feet to the W
74	0911958	PRIVATE DWELLING	184 RICHARDSON STREET	861 feet to the E
75	0911853	SUMNER RESIDENCE	184 RICHARDSON ST	861 feet to the E
76	0505877	OLD PAINT FACTORY	133 JACKSON AVE	870 feet to the SSE
77	0501932	CONSTRUCTION SITE	133 JACKSON AVE	870 feet to the SSE
78	9902395	BRONX QUEENS EXPRESSWAY	EXIT 33 MCGUINNESS BLVD	872 feet to the ENE
79	9608808	BROOKLYN/QUEENS EXPWY	AND MCGINNIS BLVD	872 feet to the ENE
80	0308472	IN ROADWAY	BROOKLYN QUEENS EXPRESSWAY @ MCGUINNESS BLVD	872 feet to the ENE
81	9901924	MANHOLE 55946B	HUMBOLT ST MCGUINESS ST	883 feet to the NE
82	0811948	RESIDENCE	684 LORIMER ST	929 feet to the SW
83	0710898	FORMER GAS	550 HUMBOLT ST	996 feet to the NE
84	0508671	MONITORING WELL	550 HUMBOLDT STREET	996 feet to the NE
85	0401691	CONSTRUCTION SITE	474 LEONARD STREET	1018 feet to the NNW
86	0508101	EXCAVATION	140 JACKSON STREET	1025 feet to the SSE
87	0705867	GREEN POINT CAR WASH, INC.	(AKA AUTOCLEAN CARWASH, INC.)	1028 feet to the N
88	0602810	CONSTRUCTION SITE	351 MANHATTAN AVE	1041 feet to the S
89	9909065	MANHOLE #53380	MEEKER AVE/WITHERS ST	1085 feet to the SW
90	0811473	RESIDENCE	381 GRAHAM AVE APT 2	1190 feet to the SSE
91	9414922	AMOCO STATION −MTBE	243 MEEKER AVENUE	1311 feet to the SW
92	1201151	UNDERGROUND	243 MEEKER AVE	1311 feet to the SW
93	0800508	ABANDONED BUCKET	9 RICHARDSON ST	1321 feet to the W
94	0911340	CONSTRUCTION/EXCAVATION SITE	568 UNION AVENUE	1378 feet to the WSW
95	9911825	MANHOLE 4379	DRIGGS AVE&MANHATTAN AVE	1394 feet to the NW
96	0002248	**DRILL** TM 755 **DRILL**	**DRILL** DRIGGS AVE/MANHATTAN AV	1394 feet to the NW
97	0106443	MANHOLE #TM 633	NEWELL ST & DRIGGS AV	1429 feet to the N
98	9704676	CORNOR OF CONSELYEA	MANHATTEN AVE	1450 feet to the S
99	9910471	MANHOLE #4900	NORTH 11TH ST/UNION AVE	1477 feet to the WSW
100	0601565	GAS STATION	116 CONSELYEA STREET	1506 feet to the S
101	0612279	BOGUMIL HOME	101 ECKFORD STREET	1555 feet to the NNW
102	0000373	GAS STATION	2 ROEBLING ST	1566 feet to the W
103	0713068	SCHOOL	320 MANHATTAN AVE.	1570 feet to the SSE
104	9812337	MANHOLE #4837	ROEBLING AVE/NORTH 11TH	1596 feet to the W
105	0701326	CONSTRUCTION SITE	ROEBLING STR/NORTH 11TH	1596 feet to the W
106	0608859	CONSTRUCTION SITE	NORTH 11TH ST & ROEBLING	1596 feet to the W
107	9910080	MANHOLE 4925	WITHERS ST/UNION AV	1615 feet to the WSW
108	9909108	MANHOLE 53375	WITHERS ST/ UNION AVE	1615 feet to the WSW
109	9608904	GAS STATION	25 SKILLMAN AVE	1652 feet to the SW
110	9111612	25 SKILLMAN AVE	25 SKILLMAN AVE	1652 feet to the SW
111	0612377	BETWEN NORTH 10 /11TH	ROEBLING	1685 feet to the W
112	9200714	30 SKILLMAN AVE	30 SKILLMAN AVE	1692 feet to the SSW
113	0514290	MANUFACTURING FACILITY	78 KINGSLAND AVE	1724 feet to the E
114	9912570	SERVICE BOX #12699	107 KINGSLAND AVE	1730 feet to the ENE
115	9910564	MANHOLE 4930	UNION AVE/JACKSON ST	1737 feet to the SW
116	9706969	MCGINNESS AVE BETWEEN	NASSAU AVE DRIBBS AVE	1739 feet to the N
117	0706573	APPEARS THAT 20 GAL COOKING OIL	LEONARD ST & METROPOLITAN AVE	1747 feet to the S
118	0602498	WAREHOUSE	261 NORTH 9TH STREET	1767 feet to the WSW
119	0202473	MH 4927	HAVERMYER ST/N 9TH ST	1785 feet to the WSW
120	9000154	387 HUMBOLDT ST/BKLYN	387 HUMBOLDT STREET	1785 feet to the SE
121	0101039	RESIDENCE	41 NEWELL ST	1788 feet to the N
122	0613238	CONSTRUCTION SITE	ROEBLING STREET	1810 feet to the W

123	0612680	EXCAVATION	214 NORTH 11TH STREET	1810 feet to the W
124	0605974	EXCAVATION SITE	204−214 NORTH 11TH ST	1810 feet to the W
125	8604708	AMONIUM HYDROCHLORIDE SPI	215 N. 10TH ST	1814 feet to the W
126	9315136	606 MANHATTAN AVENUE	606 MANHATTAN AVENUE	1822 feet to the NNW
127	1204885	51 KINGLAND AVENUE	51 KINKGLAND AVE	1825 feet to the ESE
128	0504371	VS 5950	E SIDE KINGSLAND AVE/NEAR FROST ST	1838 feet to the E
129	0401647	VS5950 − VAULT	KINGSLAND AV/FROST ST	1838 feet to the E
130	0002006	KINGSLAND & FROST AVENUE −MTBE	KINGSLAND AVENUE	1838 feet to the E
131	9212899	625 HUMBOLDT STREET	625 HUMBOLDT STREET	1871 feet to the NNE
132	0613323	IN STREET	MEEKER AVE/ UNION AVE	1875 feet to the SW
133	9012712	104 KINGSLAND AVE/BKLYN	104 KINGSLAND AVENUE	1875 feet to the ENE
134	0801333	COMMERICAL VACANT LOT	235−239 N 9TH STREET	1882 feet to the WSW
135	9309647	44 NEWELL STREET	44 NEWELL STREET	1890 feet to the N
136	1113750	APARTMENT BLDG	243 JACKSON STREET	1901 feet to the ESE
137	0607434	BMT L LINE	LORIMER/METROPOLITIAN	1903 feet to the SSW
138	0002207	METROPOLITIAN AV AND	LORIMER ST	1903 feet to the SSW
139	9614038	DOUBLE GREEN	122 KINGSLAND AVENUE	1932 feet to the ENE
140	0013079	DELI	112 NASSAU AVE	1951 feet to the NNW
141	0609092	COMMERCIAL PROPERTY	200 NORTH 11TH STREET	1951 feet to the W
142	9903762	SANITATION COMPANY	244 SKILLMAN AVE	1986 feet to the ESE
143	9103684	18 DIVISION PL/BKLYN	18 DIVISION PLACE	1987 feet to the ENE
144	0109317	GOODMAN BROT STEEL DRUMS	18 DIVISION ST	1987 feet to the ENE
145	0109316	GOODMAN BROT STEEL DRUMS	18 DIVISION PL	1987 feet to the ENE
146	9902735	MANHOLE 16282	IFO 288 NO 8TH ST	2011 feet to the SW
147	0400590	CON ED VAULT #4233	JACKSON/KINGSLEY	2021 feet to the ESE
148	9502369	NYS DOT − BQE	KINGSLAND & MEEKER AVES	2022 feet to the NE
149	9901889	MANHOLE 4939	564 METROPOLATAIN AVE	2061 feet to the SSW
150	9203429	MONITOR ST & DRIGGS AVE	MONITOR ST & DRIGGS AVE	2062 feet to the NE
151	9914569	MANHOLE 4376 AND BEDFORD	AVE AND LOROMIER AVE	2069 feet to the NW
152	0007726	MH 4374	NASSAU AV/LAURAMAR AV	2069 feet to the NW
153	0608858	AUNT HEDDY‘S BAKERY	234 NORTH 9TH STREET	2092 feet to the WSW
154	9110815	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE
155	0708819	213 NORTH 9TH STREET	213−217 NORTH 9TH STREET	2102 feet to the W
156	9814654	SERVICE VS5743	BEADEL ST/DEBEVOISE ST	2107 feet to the ENE
157	9711671	105 BEDFORD AV	105 BEDFORD AVENUE	2130 feet to the W
158	1001766	NEW APT BLDG/FORMER PAINT FACTORY	95 BEDFORD AVENUE	2130 feet to the W
159	0707397	EIGHT GAL XFMR LEAK IN MANHOLE #1706	155 NORTH 11 ST (AT BEDFORD AVE).	2130 feet to the W
160	0006690	MH4940	LORIMER ST/DEVOE ST	2150 feet to the SSW
161	9911493	MANHOLE #4382	640 MANHATTAN AVE	2164 feet to the NNW
162	0508858	HYDRO TECH	170 NORTH 11TH STREET	2208 feet to the W
163	9814263	W OF ROBLING AV	N 8TH ST	2226 feet to the WSW
164	0004891	MAN HOLE #4934	UNION AVE / KEAP ST	2266 feet to the SSW
165	0000119	MH 225	AINSLIE ST/LEONARD ST	2269 feet to the S
166	0601688	VACANT LOT	165 NORTH 10TH ST	2280 feet to the W
167	9905189	IFO HOUSE	143 AINSLIE ST	2293 feet to the S
168	0706592	STAR SOAP AND CANDLE CO.	304 NORTH 7TH STREET	2303 feet to the SW
169	0706478	STAR SOAP AND CANDLE CO.	304 NORTH 7TH ST	2303 feet to the SW
170	0510912	310 N 7TH ST	310 N 7TH ST	2303 feet to the SW
171	0712729	VACANT/ COMMERCIAL	506 DRIGGS AVE	2367 feet to the W
172	8706359	19 NASSAU AVE./CORNER OF	19 NASSAU AVE	2392 feet to the NW
173	0412597	VAULT TM613	HUMBOLDT ST. AND NASSAU A	2420 feet to the N
174	0911638	CON EDISON MANHOLE 12371	53 DIVISON PLACE	2435 feet to the ENE
175	0700409	ONE QT OIL FOUND IN MANHOLE #2694	DEBEVOISE & JACKSON STREETS	2439 feet to the E

176	0008346	SERVICE BOX 12690	206 KINGSLAND AVE	2448 feet to the NE
177	9910034	MANHOLE 4935	MANHOLE 4935	2463 feet to the SSW
178	0702380	TRAFFIC ACCIDENT	MEEKER AVE/METROPOLITAN A	2471 feet to the SW
179	9800896	SUBWAY TRACKS−NYCT	257 NORTH 6TH ST	2471 feet to the WSW
180	9702730	CAMPBELL RESIDENCE	120 BEDFORD AVE	2473 feet to the W
181	9904275	LOT NEXT TO 583 DRIDGES	CRN DRIGGES AVE & 8TH	2481 feet to the WSW
182	9403707	MANHATTAN AVE & POWERS ST	MANHATTAN AVE / POWERS ST	2496 feet to the S
183	0406156	MANHOLE 63577	NASSAU AVE/RUSSELL ST	2517 feet to the NNE
184	0200410	MANHOLE #64589	RUSSELL & NASSAU ST	2517 feet to the NNE
185	9909344	GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW
186	9415336	680 MANHATTAN AVE	680 MANHATTAN AVE	2525 feet to the NNW
187	9800933	433 UNION AVE	433 UNION AVE	2527 feet to the SSW
188	9812352	MANHOLE #56358	DIVISION PL/MORGAN AVE	2570 feet to the ENE
189	9809860	MH #16092	MORGAN AVE & DIVISION PL	2570 feet to the ENE
190	0013237		IFO 100 MAGUNIS BLVD	2572 feet to the NNW
191	9204995	535 MORGAN AVE	535 MORGAN AVE	2573 feet to the ENE
192	0100016	RESIDENCE	50 BUSHWICK AVE	2598 feet to the SE
193	0303594		BEDFORD AVE/N 9TH ST	2619 feet to the W
194	9902614	125 NORTH 10TH ST	125 NORTH 10TH ST	2621 feet to the W
195	9803138	GAS STATION	417 UNION AVE	2633 feet to the SSW
196	0205855	S & S PRINTING	488 MORGAN AVE	2639 feet to the ENE

Closed Status Spills (Miscellaneous Spill Causes) −− Total Sites − 14 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
197	0608057	BROOKLYN QUEENS EXPRESS	GRAHAM AVE EAST BOUND DIR	466 feet to the ENE
198	9608634	GELFAND RES.	398 MANHATTAN AVE	468 feet to the SSE
199	0711236	INTERMASTER	387 MANHATTAN AVE	491 feet to the S
200	9400072	375 MANHATTAN AVENUE	375 MANHATTAN AVENUE	620 feet to the S
201	0007090	MCGUINESS BLVD & BQE	MCGUINESS BLVD & BQE	872 feet to the ENE
202	8606018	43 HERBERT STREET,BKLYN/R	43 HERBERT ST	970 feet to the ENE
203	9811933		526 UNION AVE	1586 feet to the SW
204	8805035	APARTMENT BLDG	677 METROPOLITAN AV	1609 feet to the S
205	0107722	TM 640	HERBERT ST & KINGSLAND AVE	1822 feet to the ENE
206	9515443	522 METROPOLITAN AVE	522 METROPOLITAN AVE	2199 feet to the SSW
207	8807632	810 METROPOLITAN AV/MERIT	810 METROPOLITAN AVENUE	2241 feet to the SE
208	8601471	NATIONAL DRUM	35 BEADEL STREET	2302 feet to the ENE
209	0201184		505 MORGAN AVE	2497 feet to the ENE
210	0111362		ANTHONY ST/MORGAN AVE	2639 feet to the ENE

Petroleum Bulk Storage Sites −− Total Sites − 14 **Database searched at 1/8 MILE − ASTM required search distance: Property & Adjacent**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
211	2−090301	ISRAEL M DOLGIN ASSOC	101 RICHARDSON STREET	197 feet to the WSW*
212	NY05058	ISREAL M DOLGIN ASSC	87 RICHARDSON ST	313 feet to the WSW
213	2−510793	278 FUEL STOP, INC.	392 LEONARD STREET	386 feet to the SW
214	2−611136	A−I AUTO REPAIRS INC.	392 LEONARD STREET	386 feet to the SW
215	2−356476	JUNIOR HIGH SCHOOL 126 − BROOKLYN	424 LEONARD STREET	433 feet to the NW
216	2−257958	D L BRENNER & SONS INC	407 LEONARD ST	469 feet to the W
217	2−610788	INTER MASTER CORP	387 MANHATTAN AVE.	494 feet to the S
218	NY03031	DAMATO SALES & SERVICES	104 FROST ST	497 feet to the S
219	2−069140	TRICO ELECTRICAL CORP.	495 GRAHAM AVE	517 feet to the NNE
220	2−600510	FDNY ENGINE 229 / LADDER 146	75 RICHARDSON STREET	548 feet to the WSW
221	2−045799	MOBILE SYSTEMS UNIT	75 FROST STREET	584 feet to the SW
222	2−609713	ALL BORO	391 LEONARD STREET	584 feet to the SW

223	NY04036	FRATELLI RICATTO	391 LEONARD ST	584 feet to the SW
224	NY02925	CREST BODY EQUIP CRP	72 BAYARD ST	595 feet to the W

Hazardous Waste Generators, Transporters −− Total Sites − 17 **Database searched at 1/8 MILE − ASTM required search distance: Property & Adjacent**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
225	NYP004043931	CONSOLIDATED EDISON	MEEKER AVE & RICHARDSON	137 feet to the SE*
226	NYP004137071	CONSOLIDATED EIDSON	MEEKER & MANHATTAN MH64805	137 feet to the SE*
227	NYP004203194	CONSOLIDATED EDISON	MEEKER−N−RICHARDSON	137 feet to the SE*
228	NYP004223194	CONSOLIDATED EDISON	MEEKER & RICHARDSON	137 feet to the SE*
229	NYR000155804	NYSDOT BIN 1065609	I−278 OVER MANHATTAN AVE	137 feet to the SE*
230	NYD068298835	CITY BARREL & DRUM CO INC	421 MEEKER AVE	190 feet to the ENE*
231	NYR000106922	NYC BOARD OF EDUCATION PS 126 K	424 LEONARD ST	366 feet to the NW
232	NYP004153664	CONSOLIDATED EDISON	BAYARD ST & LEONARD ST	407 feet to the W
233	NYR000155788	NYSDOT BIN 106560A	I−278 EB OVER GRAHAM AVE	466 feet to the ENE
234	NYR000155796	NYSDOT BIN 106560B	I−278 WB OVER GRAHAM AVE	466 feet to the ENE
235	NYD986929677	GRAF AIR	407 LEONARD ST	477 feet to the WSW
236	NYR000040410	NYC FIRE DEPT ENGINE CO 229	75 RICHARDSON ST	551 feet to the WSW
237	NYP004029153	CONSOLIDATED EDISON	MH64805−MEEKER AVE & FROST ST	564 feet to the SW
238	NYP004150322	CONSOLIDATED EDISON	MEEKER AVE AND FROST ST	564 feet to the SW
239	NYP004185401	CONSOLIDATED EDISON	MEEKER AVE & FROST ST − MH64805	564 feet to the SW
240	NYP000954487	NYCDEP	75 FROST ST	592 feet to the SW
241	NYP003600826	NYCDEP	75 FROST ST	592 feet to the SW

Hazardous Substance Waste Disposal Sites −− Total Sites − 1 **Database searched at 1/2 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
242		CITY BARREL	421 MEEKER STREET	188 feet to the ENE*

Air Discharge Sites −− Total Sites − 1 **Database searched at 1/8 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
243	36047P0003	ELLI WOODWORKING INDUSTRIES	121−125 NEWTON STREET	595 feet to the N

Civil & Administrative Enforcement Docket Sites −− Total Sites − 1 **Database searched at 1/8 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
244	NY0000379990	NYC BD OF ED − JUNIOR HIGH SCH	424 LEONARD STREET	368 feet to the NNW

NYC Env. Quality Review − Env. Designation Sites −− Total Sites − 13 **Database searched at 250 FT − ASTM required search distance: Onsite Only**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
245	E−138	BLOCK: 2723 LOT: 30	415 MANHATTAN AVENUE	0 feet
246	E−138	BLOCK: 2723 LOT: 29	417 MANHATTAN AVENUE	26 feet to the NW*
247	E−138	BLOCK: 2723 LOT: 33	391 MEEKER AVENUE	87 feet to the S*
248	E−138	BLOCK: 2723 LOT: 36	113 RICHARDSON STREET	104 feet to the SW*
249	E−138	BLOCK: 2723 LOT: 37	111 RICHARDSON STREET	123 feet to the SW*
250	E−138	BLOCK: 2724 LOT: 1	411 MEEKER AVENUE	125 feet to the ENE*
251	E−138	BLOCK: 2724 LOT: 37	417 MEEKER AVENUE	152 feet to the ENE*
252	E−138	BLOCK: 2724 LOT: 7	430 MANHATTAN AVENUE	180 feet to the NNE*
253	E−138	BLOCK: 2724 LOT: 34	419 MEEKER AVENUE	191 feet to the ENE*
254	E−138	BLOCK: 2723 LOT: 38	101 RICHARDSON STREET	202 feet to the WSW
255	E−138	BLOCK: 2724 LOT: 10	130 BAYARD STREET	217 feet to the NNE
256	E−138	BLOCK: 2724 LOT: 33	MEEKER AVENUE	221 feet to the ENE
257	E−138	BLOCK: 2724 LOT: 31	433 MEEKER AVENUE	247 feet to the ENE

Identified Toxic Sites by Proximity

415 Manhattan Avenue, Brooklyn, NY 11222

* Compass directions can vary substantially for sites located very close to the subject property address.

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
245	BLOCK: 2723 LOT: 30	415 MANHATTAN AVENUE	0 feet	NYC Env. Qual. Review−"E" Designation
246	BLOCK: 2723 LOT: 29	417 MANHATTAN AVENUE	26 feet to the NW*	NYC Env. Qual. Review−"E" Designation
247	BLOCK: 2723 LOT: 33	391 MEEKER AVENUE	87 feet to the S*	NYC Env. Qual. Review−"E" Designation
248	BLOCK: 2723 LOT: 36	113 RICHARDSON STREET	104 feet to the SW*	NYC Env. Qual. Review−"E" Designation
249	BLOCK: 2723 LOT: 37	111 RICHARDSON STREET	123 feet to the SW*	NYC Env. Qual. Review−"E" Designation
250	BLOCK: 2724 LOT: 1	411 MEEKER AVENUE	125 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
56	TRANSMISSION MANHOLE 71303	MEEKER AND RICHARDSON ST	137 feet to the SE*	Closed Status Spill (Unk/Other Cause)
225	CONSOLIDATED EDISON	MEEKER AVE & RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
226	CONSOLIDATED EIDSON	MEEKER & MANHATTAN MH64805	137 feet to the SE*	Hazardous Waste Generator/Transporter
227	CONSOLIDATED EDISON	MEEKER−N−RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
228	CONSOLIDATED EDISON	MEEKER & RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
229	NYSDOT BIN 1065609	I−278 OVER MANHATTAN AVE	137 feet to the SE*	Hazardous Waste Generator/Transporter
251	BLOCK: 2724 LOT: 37	417 MEEKER AVENUE	152 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
252	BLOCK: 2724 LOT: 7	430 MANHATTAN AVENUE	180 feet to the NNE*	NYC Env. Qual. Review−"E" Designation
242	CITY BARREL	421 MEEKER STREET	188 feet to the ENE*	Hazardous Substance Waste Disposal Site
230	CITY BARREL & DRUM CO INC	421 MEEKER AVE	190 feet to the ENE*	Hazardous Waste Generator/Transporter
253	BLOCK: 2724 LOT: 34	419 MEEKER AVENUE	191 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
211	ISRAEL M DOLGIN ASSOC	101 RICHARDSON STREET	197 feet to the WSW*	Petroleum Bulk Storage Site
2	CITY BARREL CO.	421−429 MEEKER STREET	198 feet to the ENE*	NYSDEC Inactive Haz Waste Disposal Site
20	CITY BARREL	421−429 MEEKER ST	198 feet to the ENE*	CERCLIS Superfund NFRAP Site
254	BLOCK: 2723 LOT: 38	101 RICHARDSON STREET	202 feet to the WSW	NYC Env. Qual. Review−"E" Designation
255	BLOCK: 2724 LOT: 10	130 BAYARD STREET	217 feet to the NNE	NYC Env. Qual. Review−"E" Designation
256	BLOCK: 2724 LOT: 33	MEEKER AVENUE	221 feet to the ENE	NYC Env. Qual. Review−"E" Designation
257	BLOCK: 2724 LOT: 31	433 MEEKER AVENUE	247 feet to the ENE	NYC Env. Qual. Review−"E" Designation
57	SERVICE BOX	87 RICHARDSON ST	313 feet to the WSW	Closed Status Spill (Unk/Other Cause)
58	MANHOLE (UNK #)	87 RICHARDSON ST	313 feet to the WSW	Closed Status Spill (Unk/Other Cause)
212	ISREAL M DOLGIN ASSC	87 RICHARDSON ST	313 feet to the WSW	Petroleum Bulk Storage Site
231	NYC BOARD OF EDUCATION PS 126 K	424 LEONARD ST	366 feet to the NW	Hazardous Waste Generator/Transporter
244	NYC BD OF ED − JUNIOR HIGH SCH	424 LEONARD STREET	368 feet to the NNW	Civil & Admin. Enforcement Docket Site
59	COMMERCIAL PROPERTY	120 NEWTON AVENUE	373 feet to the N	Closed Status Spill (Unk/Other Cause)
213	278 FUEL STOP, INC.	392 LEONARD STREET	386 feet to the SW	Petroleum Bulk Storage Site
214	A−I AUTO REPAIRS INC.	392 LEONARD STREET	386 feet to the SW	Petroleum Bulk Storage Site
36	GAS STATION	392 LEONARD STREET	388 feet to the SW	Closed Status Tank Failure
60		392 LEONARD STREET	388 feet to the SW	Closed Status Spill (Unk/Other Cause)
61	CONSTUCTION SITE	392 LEONARD STREET	388 feet to the SW	Closed Status Spill (Unk/Other Cause)
62	VS 3971	BAYARD ST/LENARD ST	407 feet to the W	Closed Status Spill (Unk/Other Cause)
232	CONSOLIDATED EDISON	BAYARD ST & LEONARD ST	407 feet to the W	Hazardous Waste Generator/Transporter
63	INTERSECTION FROM MANHOLE 4917	MANHATTAN AVE AND FROST ST	413 feet to the SSE	Closed Status Spill (Unk/Other Cause)
215	JUNIOR HIGH SCHOOL 126 − BROOKLYN	424 LEONARD STREET	433 feet to the NW	Petroleum Bulk Storage Site
64	COMMERCIAL LOT	407 LEONARD STREET/BAYARD	459 feet to the W	Closed Status Spill (Unk/Other Cause)
65	COMMERCIAL LOT	407 LEONARD ST	459 feet to the W	Closed Status Spill (Unk/Other Cause)
197	BROOKLYN QUEENS EXPRESS	GRAHAM AVE EAST BOUND DIR	466 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
233	NYSDOT BIN 106560A	I−278 EB OVER GRAHAM AVE	466 feet to the ENE	Hazardous Waste Generator/Transporter
234	NYSDOT BIN 106560B	I−278 WB OVER GRAHAM AVE	466 feet to the ENE	Hazardous Waste Generator/Transporter
198	GELFAND RES.	398 MANHATTAN AVE	468 feet to the SSE	Closed Status Spill (Misc. Spill Cause)

216	D L BRENNER & SONS INC	407 LEONARD ST	469 feet to the W	Petroleum Bulk Storage Site
66	CHLORINE FACTORY	126 NEWTON ST	474 feet to the N	Closed Status Spill (Unk/Other Cause)
235	GRAF AIR	407 LEONARD ST	477 feet to the WSW	Hazardous Waste Generator/Transporter
199	INTERMASTER	387 MANHATTAN AVE	491 feet to the S	Closed Status Spill (Misc. Spill Cause)
217	INTER MASTER CORP	387 MANHATTAN AVE.	494 feet to the S	Petroleum Bulk Storage Site
218	DAMATO SALES & SERVICES	104 FROST ST	497 feet to the S	Petroleum Bulk Storage Site
219	TRICO ELECTRICAL CORP.	495 GRAHAM AVE	517 feet to the NNE	Petroleum Bulk Storage Site
42	UNITED AMBULETTE	495 GRAHAM AVE	523 feet to the NNE	Closed Status Tank Test Failure
220	FDNY ENGINE 229 / LADDER 146	75 RICHARDSON STREET	548 feet to the WSW	Petroleum Bulk Storage Site
236	NYC FIRE DEPT ENGINE CO 229	75 RICHARDSON ST	551 feet to the WSW	Hazardous Waste Generator/Transporter
21	ENGINE CO. 229 FDNY −DDC	76 RICHARDSON STREET	558 feet to the WSW	Active Tank Failure
34	FEEDER 61	MEEKER AVE & LEONARD ST	564 feet to the SW	Active Haz Spill (Misc. Spill Cause)
67	MANHOLE 64805	MEECKER AVE A DN FROST ST	564 feet to the SW	Closed Status Spill (Unk/Other Cause)
237	CONSOLIDATED EDISON	MH64805−MEEKER AVE & FROST ST	564 feet to the SW	Hazardous Waste Generator/Transporter
238	CONSOLIDATED EDISON	MEEKER AVE AND FROST ST	564 feet to the SW	Hazardous Waste Generator/Transporter
239	CONSOLIDATED EDISON	MEEKER AVE & FROST ST − MH64805	564 feet to the SW	Hazardous Waste Generator/Transporter
221	MOBILE SYSTEMS UNIT	75 FROST STREET	584 feet to the SW	Petroleum Bulk Storage Site
222	ALL BORO	391 LEONARD STREET	584 feet to the SW	Petroleum Bulk Storage Site
223	FRATELLI RICATTO	391 LEONARD ST	584 feet to the SW	Petroleum Bulk Storage Site
240	NYCDEP	75 FROST ST	592 feet to the SW	Hazardous Waste Generator/Transporter
241	NYCDEP	75 FROST ST	592 feet to the SW	Hazardous Waste Generator/Transporter
224	CREST BODY EQUIP CRP	72 BAYARD ST	595 feet to the W	Petroleum Bulk Storage Site
243	ELLI WOODWORKING INDUSTRIES	121−125 NEWTON STREET	595 feet to the N	Air Discharge Site
200	375 MANHATTAN AVENUE	375 MANHATTAN AVENUE	620 feet to the S	Closed Status Spill (Misc. Spill Cause)
68	59−65 FROST STREET	59−65 FROST STREET	730 feet to the SW	Closed Status Spill (Unk/Other Cause)
37	68 RICHARDSON STREET	68 RICHARDSON STREET	742 feet to the WSW	Closed Status Tank Failure
69	PAINT FACTORY	415 GRAHAM AVE	770 feet to the SE	Closed Status Spill (Unk/Other Cause)
43	64 FROST ST	64 FROST STREET	822 feet to the SW	Closed Status Tank Test Failure
70	704 LORIMER ST	704 LORIMER ST	825 feet to the WSW	Closed Status Spill (Unk/Other Cause)
71		354 LEONARD ST	852 feet to the SSW	Closed Status Spill (Unk/Other Cause)
72		354 LEONARD ST	852 feet to the SSW	Closed Status Spill (Unk/Other Cause)
73	INSIDE MCCARREN POOL	BAYARD AND LORIMER ST.	858 feet to the W	Closed Status Spill (Unk/Other Cause)
74	PRIVATE DWELLING	184 RICHARDSON STREET	861 feet to the E	Closed Status Spill (Unk/Other Cause)
75	SUMNER RESIDENCE	184 RICHARDSON ST	861 feet to the E	Closed Status Spill (Unk/Other Cause)
76	OLD PAINT FACTORY	133 JACKSON AVE	870 feet to the SSE	Closed Status Spill (Unk/Other Cause)
77	CONSTRUCTION SITE	133 JACKSON AVE	870 feet to the SSE	Closed Status Spill (Unk/Other Cause)
78	BRONX QUEENS EXPRESSWAY	EXIT 33 MCGUINNESS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
79	BROOKLYN/QUEENS EXPWY	AND MCGINNIS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
80	IN ROADWAY	BROOKLYN QUEENS EXPRESSWAY @ MCGUINNESS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
201	MCGUINESS BLVD & BQE	MCGUINESS BLVD & BQE	872 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
81	MANHOLE 55946B	HUMBOLT ST MCGUINESS ST	883 feet to the NE	Closed Status Spill (Unk/Other Cause)
82	RESIDENCE	684 LORIMER ST	929 feet to the SW	Closed Status Spill (Unk/Other Cause)
202	43 HERBERT STREET,BKLYN/R	43 HERBERT ST	970 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
24	SUNOCO SERVICE STATION	550 HUMBOLDT ST	988 feet to the NE	Active Haz Spill (Unknown/Other Cause)
22	MOBIL S/S #17−FX9	550 HUMBOLDT STREET	996 feet to the NE	Active Tank Test Failure
83	FORMER GAS	550 HUMBOLT ST	996 feet to the NE	Closed Status Spill (Unk/Other Cause)
84	MONITORING WELL	550 HUMBOLDT STREET	996 feet to the NE	Closed Status Spill (Unk/Other Cause)
85	CONSTRUCTION SITE	474 LEONARD STREET	1018 feet to the NNW	Closed Status Spill (Unk/Other Cause)
86	EXCAVATION	140 JACKSON STREET	1025 feet to the SSE	Closed Status Spill (Unk/Other Cause)
87	GREEN POINT CAR WASH, INC.	(AKA AUTOCLEAN CARWASH, INC.)	1028 feet to the N	Closed Status Spill (Unk/Other Cause)
88	CONSTRUCTION SITE	351 MANHATTAN AVE	1041 feet to the S	Closed Status Spill (Unk/Other Cause)
89	MANHOLE #53380	MEEKER AVE/WITHERS ST	1085 feet to the SW	Closed Status Spill (Unk/Other Cause)
90	RESIDENCE	381 GRAHAM AVE APT 2	1190 feet to the SSE	Closed Status Spill (Unk/Other Cause)

25	JOHN HULEY	498 LEONARD ST	1245 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
44	BRUMAR SHEET METAL INC	498 LEONARD STREET	1245 feet to the NNW	Closed Status Tank Test Failure
23	COMMERCIAL PROPERTY TTF	498 LEONARD ST	1253 feet to the NNW	Active Tank Test Failure
91	AMOCO STATION −MTBE	243 MEEKER AVENUE	1311 feet to the SW	Closed Status Spill (Unk/Other Cause)
92	UNDERGROUND	243 MEEKER AVE	1311 feet to the SW	Closed Status Spill (Unk/Other Cause)
93	ABANDONED BUCKET	9 RICHARDSON ST	1321 feet to the W	Closed Status Spill (Unk/Other Cause)
94	CONSTRUCTION/EXCAVATION SITE	568 UNION AVENUE	1378 feet to the WSW	Closed Status Spill (Unk/Other Cause)
95	MANHOLE 4379	DRIGGS AVE&MANHATTAN AVE	1394 feet to the NW	Closed Status Spill (Unk/Other Cause)
96	**DRILL** TM 755 **DRILL**	**DRILL** DRIGGS AVE/MANHATTAN AV	1394 feet to the NW	Closed Status Spill (Unk/Other Cause)
97	MANHOLE #TM 633	NEWELL ST & DRIGGS AV	1429 feet to the N	Closed Status Spill (Unk/Other Cause)
98	CORNOR OF CONSELYEA	MANHATTEN AVE	1450 feet to the S	Closed Status Spill (Unk/Other Cause)
99	MANHOLE #4900	NORTH 11TH ST/UNION AVE	1477 feet to the WSW	Closed Status Spill (Unk/Other Cause)
100	GAS STATION	116 CONSELYEA STREET	1506 feet to the S	Closed Status Spill (Unk/Other Cause)
101	BOGUMIL HOME	101 ECKFORD STREET	1555 feet to the NNW	Closed Status Spill (Unk/Other Cause)
38	UNKNOWN GAS STATION	2 ROEBLING ST	1566 feet to the W	Closed Status Tank Failure
102	GAS STATION	2 ROEBLING ST	1566 feet to the W	Closed Status Spill (Unk/Other Cause)
103	SCHOOL	320 MANHATTAN AVE.	1570 feet to the SSE	Closed Status Spill (Unk/Other Cause)
203		526 UNION AVE	1586 feet to the SW	Closed Status Spill (Misc. Spill Cause)
104	MANHOLE #4837	ROEBLING AVE/NORTH 11TH	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
105	CONSTRUCTION SITE	ROEBLING STR/NORTH 11TH	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
106	CONSTRUCTION SITE	NORTH 11TH ST & ROEBLING	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
204	APARTMENT BLDG	677 METROPOLITAN AV	1609 feet to the S	Closed Status Spill (Misc. Spill Cause)
107	MANHOLE 4925	WITHERS ST/UNION AV	1615 feet to the WSW	Closed Status Spill (Unk/Other Cause)
108	MANHOLE 53375	WITHERS ST/ UNION AVE	1615 feet to the WSW	Closed Status Spill (Unk/Other Cause)
109	GAS STATION	25 SKILLMAN AVE	1652 feet to the SW	Closed Status Spill (Unk/Other Cause)
110	25 SKILLMAN AVE	25 SKILLMAN AVE	1652 feet to the SW	Closed Status Spill (Unk/Other Cause)
111	BETWEN NORTH 10 /11TH	ROEBLING	1685 feet to the W	Closed Status Spill (Unk/Other Cause)
112	30 SKILLMAN AVE	30 SKILLMAN AVE	1692 feet to the SSW	Closed Status Spill (Unk/Other Cause)
113	MANUFACTURING FACILITY	78 KINGSLAND AVE	1724 feet to the E	Closed Status Spill (Unk/Other Cause)
114	SERVICE BOX #12699	107 KINGSLAND AVE	1730 feet to the ENE	Closed Status Spill (Unk/Other Cause)
115	MANHOLE 4930	UNION AVE/JACKSON ST	1737 feet to the SW	Closed Status Spill (Unk/Other Cause)
116	MCGINNESS AVE BETWEEN	NASSAU AVE DRIBBS AVE	1739 feet to the N	Closed Status Spill (Unk/Other Cause)
117	APPEARS THAT 20 GAL COOKING OIL	LEONARD ST & METROPOLITAN AVE	1747 feet to the S	Closed Status Spill (Unk/Other Cause)
118	WAREHOUSE	261 NORTH 9TH STREET	1767 feet to the WSW	Closed Status Spill (Unk/Other Cause)
119	MH 4927	HAVERMYER ST/N 9TH ST	1785 feet to the WSW	Closed Status Spill (Unk/Other Cause)
120	387 HUMBOLDT ST/BKLYN	387 HUMBOLDT STREET	1785 feet to the SE	Closed Status Spill (Unk/Other Cause)
121	RESIDENCE	41 NEWELL ST	1788 feet to the N	Closed Status Spill (Unk/Other Cause)
26	N 11TH STREET SIDEWALK	204−214 NORTH 11TH ST	1810 feet to the W	Active Haz Spill (Unknown/Other Cause)
122	CONSTRUCTION SITE	ROEBLING STREET	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
123	EXCAVATION	214 NORTH 11TH STREET	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
124	EXCAVATION SITE	204−214 NORTH 11TH ST	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
125	AMONIUM HYDROCHLORIDE SPI	215 N. 10TH ST	1814 feet to the W	Closed Status Spill (Unk/Other Cause)
126	606 MANHATTAN AVENUE	606 MANHATTAN AVENUE	1822 feet to the NNW	Closed Status Spill (Unk/Other Cause)
205	TM 640	HERBERT ST & KINGSLAND AVE	1822 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
27	MOBIL	51 KINGSLAND AVE	1825 feet to the ESE	Active Haz Spill (Unknown/Other Cause)
127	51 KINGLAND AVENUE	51 KINKGLAND AVE	1825 feet to the ESE	Closed Status Spill (Unk/Other Cause)
128	VS 5950	E SIDE KINGSLAND AVE/NEAR FROST ST	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
129	VS5950 − VAULT	KINGSLAND AV/FROST ST	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
130	KINGSLAND & FROST AVENUE −MTBE	KINGSLAND AVENUE	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
131	625 HUMBOLDT STREET	625 HUMBOLDT STREET	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
132	IN STREET	MEEKER AVE/ UNION AVE	1875 feet to the SW	Closed Status Spill (Unk/Other Cause)
133	104 KINGSLAND AVE/BKLYN	104 KINGSLAND AVENUE	1875 feet to the ENE	Closed Status Spill (Unk/Other Cause)
134	COMMERICAL VACANT LOT	235−239 N 9TH STREET	1882 feet to the WSW	Closed Status Spill (Unk/Other Cause)

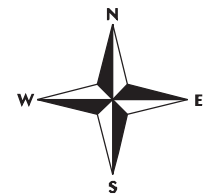
135	44 NEWELL STREET	44 NEWELL STREET	1890 feet to the N	Closed Status Spill (Unk/Other Cause)
45	CLOSED−LACKOF RECENT INFO	275 NORTH 8TH ST.	1899 feet to the SW	Closed Status Tank Test Failure
136	APARTMENT BLDG	243 JACKSON STREET	1901 feet to the ESE	Closed Status Spill (Unk/Other Cause)
137	BMT L LINE	LORIMER/METROPOLITIAN	1903 feet to the SSW	Closed Status Spill (Unk/Other Cause)
138	METROPOLITIAN AV AND	LORIMER ST	1903 feet to the SSW	Closed Status Spill (Unk/Other Cause)
39	RESIDENCE	243 JACKSON STREET	1927 feet to the ESE	Closed Status Tank Failure
28	COMMERCIAL PROPERTY	454 DRIGGS AVE	1930 feet to the W	Active Haz Spill (Unknown/Other Cause)
139	DOUBLE GREEN	122 KINGSLAND AVENUE	1932 feet to the ENE	Closed Status Spill (Unk/Other Cause)
40	ADAMS DELI	112 NASSAU AVE	1951 feet to the NNW	Closed Status Tank Failure
140	DELI	112 NASSAU AVE	1951 feet to the NNW	Closed Status Spill (Unk/Other Cause)
141	COMMERCIAL PROPERTY	200 NORTH 11TH STREET	1951 feet to the W	Closed Status Spill (Unk/Other Cause)
142	SANITATION COMPANY	244 SKILLMAN AVE	1986 feet to the ESE	Closed Status Spill (Unk/Other Cause)
143	18 DIVISION PL/BKLYN	18 DIVISION PLACE	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
144	GOODMAN BROT STEEL DRUMS	18 DIVISION ST	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
145	GOODMAN BROT STEEL DRUMS	18 DIVISION PL	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
146	MANHOLE 16282	IFO 288 NO 8TH ST	2011 feet to the SW	Closed Status Spill (Unk/Other Cause)
147	CON ED VAULT #4233	JACKSON/KINGSLEY	2021 feet to the ESE	Closed Status Spill (Unk/Other Cause)
148	NYS DOT − BQE	KINGSLAND & MEEKER AVES	2022 feet to the NE	Closed Status Spill (Unk/Other Cause)
149	MANHOLE 4939	564 METROPOLATAIN AVE	2061 feet to the SSW	Closed Status Spill (Unk/Other Cause)
150	MONITOR ST & DRIGGS AVE	MONITOR ST & DRIGGS AVE	2062 feet to the NE	Closed Status Spill (Unk/Other Cause)
46	AUTOMOTIVE HIGH SCHOOL − TTF	50 BEDFORD AVENUE	2065 feet to the NW	Closed Status Tank Test Failure
47	PS 610	50 BEDFORD AVENUE	2065 feet to the NW	Closed Status Tank Test Failure
151	MANHOLE 4376 AND BEDFORD	AVE AND LOROMIER AVE	2069 feet to the NW	Closed Status Spill (Unk/Other Cause)
152	MH 4374	NASSAU AV/LAURAMAR AV	2069 feet to the NW	Closed Status Spill (Unk/Other Cause)
29	PROPERTY	55 ROEBLING ST	2084 feet to the WSW	Active Haz Spill (Unknown/Other Cause)
153	AUNT HEDDY‘S BAKERY	234 NORTH 9TH STREET	2092 feet to the WSW	Closed Status Spill (Unk/Other Cause)
30	WOLF PETROLEUM CORP	2 BUSHWICK AVENUE	2099 feet to the SE	Active Haz Spill (Unknown/Other Cause)
48	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE	Closed Status Tank Test Failure
154	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE	Closed Status Spill (Unk/Other Cause)
155	213 NORTH 9TH STREET	213−217 NORTH 9TH STREET	2102 feet to the W	Closed Status Spill (Unk/Other Cause)
156	SERVICE VS5743	BEADEL ST/DEBEVOISE ST	2107 feet to the ENE	Closed Status Spill (Unk/Other Cause)
35	CONSTRUCTION SITE	95 BEDFORD AVE	2130 feet to the W	Active Haz Spill (Misc. Spill Cause)
157	105 BEDFORD AV	105 BEDFORD AVENUE	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
158	NEW APT BLDG/FORMER PAINT FACTORY	95 BEDFORD AVENUE	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
159	EIGHT GAL XFMR LEAK IN MANHOLE #1706	155 NORTH 11 ST (AT BEDFORD AVE).	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
160	MH4940	LORIMER ST/DEVOE ST	2150 feet to the SSW	Closed Status Spill (Unk/Other Cause)
31	99 CENT STORE (DOLLAR UP STORE)	640 MANHATTAN AVE	2164 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
161	MANHOLE #4382	640 MANHATTAN AVE	2164 feet to the NNW	Closed Status Spill (Unk/Other Cause)
206	522 METROPOLITAN AVE	522 METROPOLITAN AVE	2199 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
162	HYDRO TECH	170 NORTH 11TH STREET	2208 feet to the W	Closed Status Spill (Unk/Other Cause)
32	169−175 NORTH 10TH STREET	169−175 NORTH 10TH STREET	2222 feet to the W	Active Haz Spill (Unknown/Other Cause)
163	W OF ROBLING AV	N 8TH ST	2226 feet to the WSW	Closed Status Spill (Unk/Other Cause)
33	HESS−MERIT STATION 32522	810 METROPOLITAN AVENUE	2241 feet to the SE	Active Haz Spill (Unknown/Other Cause)
49	810 METROPOLITAN AVE	810 METROPOLITAN AVENUE	2241 feet to the SE	Closed Status Tank Test Failure
207	810 METROPOLITAN AV/MERIT	810 METROPOLITAN AVENUE	2241 feet to the SE	Closed Status Spill (Misc. Spill Cause)
164	MAN HOLE #4934	UNION AVE / KEAP ST	2266 feet to the SSW	Closed Status Spill (Unk/Other Cause)
165	MH 225	AINSLIE ST/LEONARD ST	2269 feet to the S	Closed Status Spill (Unk/Other Cause)
166	VACANT LOT	165 NORTH 10TH ST	2280 feet to the W	Closed Status Spill (Unk/Other Cause)
3	BQE/ANSBACHER COLOR & DYE FACTORY	MEEKER AVENUE	2292 feet to the SW	NYSDEC Inactive Haz Waste Disposal Site
167	IFO HOUSE	143 AINSLIE ST	2293 feet to the S	Closed Status Spill (Unk/Other Cause)
208	NATIONAL DRUM	35 BEADEL STREET	2302 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
168	STAR SOAP AND CANDLE CO.	304 NORTH 7TH STREET	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
169	STAR SOAP AND CANDLE CO.	304 NORTH 7TH ST	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)

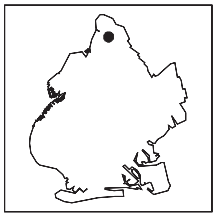
170	310 N 7TH ST	310 N 7TH ST	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
50	BUSINESS	32 BEADEL STREET	2316 feet to the ENE	Closed Status Tank Test Failure
51	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
52	COOPER PARK HOUSING −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
53	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
54	COOPER PARK	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
171	VACANT/ COMMERCIAL	506 DRIGGS AVE	2367 feet to the W	Closed Status Spill (Unk/Other Cause)
172	19 NASSAU AVE./CORNER OF	19 NASSAU AVE	2392 feet to the NW	Closed Status Spill (Unk/Other Cause)
173	VAULT TM613	HUMBOLDT ST. AND NASSAU A	2420 feet to the N	Closed Status Spill (Unk/Other Cause)
174	CON EDISON MANHOLE 12371	53 DIVISON PLACE	2435 feet to the ENE	Closed Status Spill (Unk/Other Cause)
175	ONE QT OIL FOUND IN MANHOLE #2694	DEBEVOISE & JACKSON STREETS	2439 feet to the E	Closed Status Spill (Unk/Other Cause)
176	SERVICE BOX 12690	206 KINGSLAND AVE	2448 feet to the NE	Closed Status Spill (Unk/Other Cause)
177	MANHOLE 4935	MANHOLE 4935	2463 feet to the SSW	Closed Status Spill (Unk/Other Cause)
178	TRAFFIC ACCIDENT	MEEKER AVE/METROPOLITAN A	2471 feet to the SW	Closed Status Spill (Unk/Other Cause)
179	SUBWAY TRACKS−NYCT	257 NORTH 6TH ST	2471 feet to the WSW	Closed Status Spill (Unk/Other Cause)
180	CAMPBELL RESIDENCE	120 BEDFORD AVE	2473 feet to the W	Closed Status Spill (Unk/Other Cause)
181	LOT NEXT TO 583 DRIDGES	CRN DRIGGES AVE & 8TH	2481 feet to the WSW	Closed Status Spill (Unk/Other Cause)
182	MANHATTAN AVE & POWERS ST	MANHATTAN AVE / POWERS ST	2496 feet to the S	Closed Status Spill (Unk/Other Cause)
209		505 MORGAN AVE	2497 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
183	MANHOLE 63577	NASSAU AVE/RUSSELL ST	2517 feet to the NNE	Closed Status Spill (Unk/Other Cause)
184	MANHOLE #64589	RUSSELL & NASSAU ST	2517 feet to the NNE	Closed Status Spill (Unk/Other Cause)
41	UNICO GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW	Closed Status Tank Failure
185	GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW	Closed Status Spill (Unk/Other Cause)
186	680 MANHATTAN AVE	680 MANHATTAN AVE	2525 feet to the NNW	Closed Status Spill (Unk/Other Cause)
187	433 UNION AVE	433 UNION AVE	2527 feet to the SSW	Closed Status Spill (Unk/Other Cause)
55	F N W MECHANICAL	139 NORTH 10TH STREET	2554 feet to the W	Closed Status Tank Test Failure
188	MANHOLE #56358	DIVISION PL/MORGAN AVE	2570 feet to the ENE	Closed Status Spill (Unk/Other Cause)
189	MH #16092	MORGAN AVE & DIVISION PL	2570 feet to the ENE	Closed Status Spill (Unk/Other Cause)
190		IFO 100 MAGUNIS BLVD	2572 feet to the NNW	Closed Status Spill (Unk/Other Cause)
191	535 MORGAN AVE	535 MORGAN AVE	2573 feet to the ENE	Closed Status Spill (Unk/Other Cause)
192	RESIDENCE	50 BUSHWICK AVE	2598 feet to the SE	Closed Status Spill (Unk/Other Cause)
193		BEDFORD AVE/N 9TH ST	2619 feet to the W	Closed Status Spill (Unk/Other Cause)
194	125 NORTH 10TH ST	125 NORTH 10TH ST	2621 feet to the W	Closed Status Spill (Unk/Other Cause)
195	GAS STATION	417 UNION AVE	2633 feet to the SSW	Closed Status Spill (Unk/Other Cause)
196	S & S PRINTING	488 MORGAN AVE	2639 feet to the ENE	Closed Status Spill (Unk/Other Cause)
210		ANTHONY ST/MORGAN AVE	2639 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
4	K − WYTHE AVE. STATION	WYTHE AVE., BERRY ST., N 12TH & 13TH ST	2834 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
5	FORMER KLINK COSMO CLEANERS	364 RICHARDSON STREET	2857 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
6	ACME STEEL/METAL WORKS	95 LOMBARDY STREET	3157 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
7	FORMER SPIC AND SPAN CLEANERS AND DYERS, INC.	315 KINGSLAND AVENUE	3347 feet to the NNE	NYSDEC Inactive Haz Waste Disposal Site
8	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	3567 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
9	ACME STEEL/BRASS FOUNDRY	72 ANTHONY STREET	3641 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
10	BROOKLYN NORTH 1 GARAGE	50 KENT AVENUE	3858 feet to the WNW	NYSDEC Inactive Haz Waste Registry Qual.
11	K − EQUITY WORKS	MASPETH AND VANDERVORT AVES.	3888 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
12	MOBIL OIL BROOKLYN TERMINAL	300 N. HENRY ST.	3966 feet to the NNE	NYSDEC Inactive Haz Waste Disposal Site
13	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	4095 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
14	CARBONA PRODUCTS	330 CALYER STREET	4147 feet to the N	NYSDEC Inactive Haz Waste Registry Qual.
15	KENT TERMINAL	KENT AVE. BETWEEN N.5TH & N.11TH ST.	4336 feet to the WNW	NYSDEC Inactive Haz Waste Registry Qual.
1	NEWTOWN CREEK	SOUTH END OF IVY HILL ROAD	4730 feet to the ESE	National Priority List(NPL) Site
16	NEWTOWN CREEK	NEWTOWN CREEK (BETWEEN BROOKLYN AND QUEENS)	4730 feet to the ESE	NYSDEC Inactive Haz Waste Disposal Site
17	K − GREENPOINT MGP − ENERGY CENTER	287 MASPETH AVENUE	4763 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
18	B.C.F. OIL REFINING, INC.	360−362 MASPETH AVENUE, SOUTHSIDE	4895 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
19	K − SCHOLES ST. STATION	SCHOLES ST 7 BOGART STS, MESSEROLE & MORGAN AVE	5007 feet to the SE	NYSDEC Inactive Haz Waste Disposal Site

Toxics Targeting
1 Mile Radius Map

415 Manhattan Avenue

Brooklyn, NY 11222





Kings County

National Priority List (NPL)

Inactive Hazardous Waste Disposal Registry Site

Inact. Haz Waste Disp. Registry Qualifying

RCRA Corrective Action Facility

Site Location

Waterbody

County Border

Railroad Tracks

1 Mile Radius

1/2 Mile Radius

1/4 Mile Radius

1/8 Mile Radius

415 Manhattan Avenue

1 0 1/8 1/4 1/2 1

Distance in Miles

Toxics Targeting
1/2 Mile Radius Map

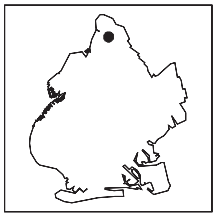
415 Manhattan Avenue

Brooklyn, NY 11222

N

W E

S



Kings County

- Delisted NPL Site
- CERCLIS Superfund Non-NFRAP Site
- CERCLIS Superfund NFRAP Site
- Hazardous Waste Treater, Storer, Disposer
- Hazardous Substance Waste Disposal Site
- Solid Waste Facility
- Brownfields Site
- Hazardous Material Spill
- MTBE Gasoline Additive Spill
- Site Location
- Waterbody
- County Border
- Railroad Tracks
- 1 Mile Radius
- 1/2 Mile Radius
- 1/4 Mile Radius
- 1/8 Mile Radius

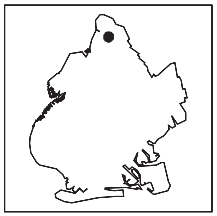
1/2 0 1/16 1/8 1/4 1/2

Distance in Miles

Toxics Targeting
1/8 Mile Radius Map

415 Manhattan Avenue

Brooklyn, NY 11222



Kings County

- Major Oil Storage Facility
- Chemical Storage Facility
- Toxic Release
- Wastewater Discharge
- Hazardous Waste Generator, Transp.
- Enforcement Docket Facility
- Air Release
- Env Qual Review E Designation
- Petroleum Bulk Storage Facility
- Historic Utility Site
- Site Location
- Waterbody
- County Border
- Railroad Tracks
- 1/8 Mile Radius
- 250 Foot Radius

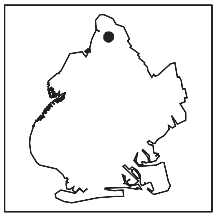
1/8 | 0 | 1/16 | 1/8

Distance in Miles

Toxics Targeting
1/8 Mile Closeup Map

415 Manhattan Avenue

Brooklyn, NY 11222



Kings County

- National Priority List (NPL) *
- Delisted NPL Site **
- CERCLIS Superfund Non-NFRAP Site **
- CERCLIS Superfund NFRAP Site **
- Inactive Hazardous Waste Disposal Registry Site *
- Inact. Haz Waste Disp. Registry Qualifying *
- Hazardous Waste Treater, Storer, Disposer **
- RCRA Corrective Action Facility *
- Hazardous Substance Waste Disposal Site **
- Solid Waste Facility **
- Major Oil Storage Facility ****
- Brownfields Site **
- Chemical Storage Facility ****
- Hazardous Material Spill **
- Toxic Release ****
- MTBE Gasoline Additive Spill **
- Wastewater Discharge ****
- Petroleum Bulk Storage Facility ****
- Hazardous Waste Generator, Transp. ****
- Historic Utility Site ****
- Enforcement Docket Facility ****
- Air Release ****
- Env Qual Review E Designation *****
- Remediation Site Borders
- Site Location
- Waterbody
- County Border
- Railroad Tracks
- 1/8 Mile Radius
- 250 Foot Radius

1/8 0 1/16 1/8

Distance in Miles

* 1 Mile Search Radius

** 1/2 Mile Search Radius

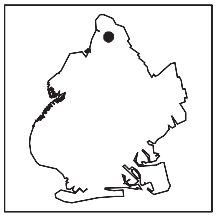
**** 1/8 Mile Search Radius

***** Onsite Search (250 Ft)

Toxics Targeting
Tax Parcel Map

415 Manhattan Avenue

Brooklyn, NY 11222



Kings County

- National Priority List (NPL)
- Delisted NPL Site
- CERCLIS Superfund Non-NFRAP Site
- CERCLIS Superfund NFRAP Site
- Inactive Hazardous Waste Disposal Registry Site
- Inact. Haz Waste Disp. Registry Qualifying
- Hazardous Waste Treater, Storer, Disposer
- RCRA Corrective Action Facility
- Hazardous Substance Waste Disposal Site
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- Major Oil Storage Facility
- Brownfields Site
- Chemical Storage Facility
- Hazardous Material Spill
- Toxic Release
- MTBE Gasoline Additive Spill
- Wastewater Discharge
- Petroleum Bulk Storage Facility
- Hazardous Waste Generator, Transp.
- Historic Utility Site
- Enforcement Docket Facility
- Air Release
- Env Qual Review E Designation
- Remediation Site Borders
- Site Location
- Waterbody
- County Border
- Railroad Tracks

Tax Parcel Information Table

415 Manhattan Avenue
Brooklyn, NY 11222

Subject Parcel or Parcels

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
3−02723−0030	415 MANHATTAN AVENUE	415 MANHATTAN AVE, CO	M1−1(R6)	B9	1	1920	9331	2500

Other Parcels Found On The Tax Parcel Map

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
3−02712−0001	438 LEONARD STREET	JOINTLY OWNED PLAYGRO	R6(M1−1)	W1	1	1966	6300000	131700
3−02719−0001	120 NEWTON STREET	120 NEWTON STREET LLC	R6(M1−1)	E9	1	1920	64800	5993
3−02723−0001	87 RICHARDSON STREET	ISRAEL M. DOLGIN ASSO	M1−1(R6)	F4	1	1930	427950	10000
3−02723−0007	100 BAYARD STREET	WELNER, DAVID C	M1−1(R6)	E3	1	1986	268650	14422
3−02723−0014	106 BAYARD STREET	CHANA LLC	M1−1(R6)	E3	1	1969	318600	15440
3−02723−0021	423 MANHATTAN AVENUE	CHANA LLC	M1−1(R6)	E3	2	1950	96390	5376
3−02723−0027	421 MANHATTAN AVENUE	CHANA LLC	M1−1(R6)	E3	1	1986	40995	2500
3−02723−0028	419 MANHATTAN AVENUE	ANDREW ARTISTIC DISTR	M1−1(R6)	F4	1	1940	42390	2500
3−02723−0029	417 MANHATTAN AVENUE	MANHATTAN AVE. GROUP,	M1−1(R6)	G2	1	1930	40365	2500
3−02723−0031	413 MANHATTAN AVENUE	ABAT REALTY, INC	M1−1(R6)	E4	1	1950	40005	2500
3−02723−0032	411 MANHATTAN AVENUE	KAY AND KAY REALTY LL	M1−1(R6)	C2	1	1928	39941	2500
3−02723−0033	391 MEEKER AVENUE	KEVINM. SCARLON	M1−1(R6)	G2	1	1930	36090	2958
3−02723−0036	113 RICHARDSON STREET	RONALD MARIANI	M1−1(R6)	E9	1	1910	32760	2500
3−02723−0037	111 RICHARDSON STREET	ISMAIL LIKA	M1−1(R6)	C2	1	1928	31328	2500
3−02723−0038	101 RICHARDSON STREET	ISRAEL M. DOLGIN ASSO	M1−1(R6)	F4	3	1930	148950	15000
3−02724−0001	411 MEEKER AVENUE	ANTHONY M TETRO	M1−1(R6)	S9	2	1920	39366	3715
3−02724−0007	430 MANHATTAN AVENUE	KEVIN SCANLON	M1−1(R6)	G2	1	1920	38790	2350
3−02724−0010	130 BAYARD STREET	BAYARD ASSOCIATES LLC	M1−1(R6)	E9	1	1987	108450	5500
3−02724−0012	134 BAYARD STREET	MARTINE KACZYNSKI	M1−1(R6)	E9	1	1920	34470	1950
3−02724−0013	136 BAYARD STREET	R HILBURGER	M1−1(R6)	B9	1	1899	9072	1950
3−02724−0014	138 BAYARD STREET	LOSIM REALTY CORP	M1−1(R6)	E3	1	1920	38385	1950
3−02724−0015	140 BAYARD STREET	ZIMMERMAN, DANUTA	M1−1(R6)	B9	1	1899	11290	1950
3−02724−0016	142 BAYARD STREET	MALGORZATA TOKARSKI	M1−1(R6)	B9	1	1899	8500	1950
3−02724−0017	144 BAYARD STREET	CHATENARINE JOSEPH	M1−1(R6)	B9	1	1899	9537	1950
3−02724−0018	146 BAYARD STREET	F CLARK	M1−1(R6)	F4	1	1969	70650	8800
3−02724−0025	447 MEEKER AVENUE	CAVALLO ANGELO	M1−1(R6)	C0	1	1920	12026	2533
3−02724−0027	445 MEEKER AVENUE	ANTHONY PASTINO	M1−1(R6)	C0	1	1920	11197	2500
3−02724−0028	441 MEEKER AVENUE	SASSANO, ANTONETTE	M1−1(R6)	C0	1	1920	11197	2500
3−02724−0029	439 MEEKER AVENUE	P GIGLIO	M1−1(R6)	C2	2	1928	46619	2500
3−02724−0030	435 MEEKER AVENUE	ANITA VOLPE SEIDMAN	M1−1(R6)	B9	1	1920	9866	2500
3−02724−0031	433 MEEKER AVENUE	ANITA VOLPE SEIDMAN	M1−1(R6)	E9	1	1910	41850	5000
3−02724−0033	MEEKER AVENUE	ANITA VOLPE SEIDMAN	M1−1(R6)	V1	0		3614	590
3−02724−0034	419 MEEKER AVENUE	STACEY SCANLON	M1−1(R6)	E9	3	1900	50400	4995
3−02724−0037	417 MEEKER AVENUE	54 18 43RD REALTY COR	M1−1(R6)	G7	1	2002	85725	3120
3−02733−0006	390 LEONARD STREET	JULIA ZOLOTOVA	M1−1(R6)	B2	1	1899	6652	2500
3−02733−0007	392 LEONARD STREET	SHTAERMAN DIMITRI	M1−1(R6)	G7	1	1940	64350	5000
3−02733−0010	100 RICHARDSON STREET	ROMENSKY WALTER	M1−1(R6)	Z9	0		108900	2823
3−02733−0025	MANHATTAN AVENUE	SAM MAYO*MARY MAYO	C8−1	V2	0		864	560

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
3−02734−0003	404 MANHATTAN AVENUE	NICOLA ROZZA	C8−1	B9	2	1899	12986	2500
3−02734−0004	406 MANHATTAN AVENUE	LACCONE, PATRICK	C8−1	F9	1	1930	38205	2300
3−02734−0005	408 MANHATTAN AVENUE	PATRICK & ROSE LACCON	C8−1	F4	1	1930	26820	1700
3−02734−0007	402 MEEKER AVENUE	RUSSIN ROBERT MARGARE	C8−1	E3	1	1970	166950	7960
3−02734−0011	136 RICHARDSON STREET	TROCCHIA ANTONIO	C8−1	G2	1	1950	53100	3395
3−02734−0035	137 FROST STREET	ANDREAS BALALIS	C8−1	E9	1	1995	160200	7700
3−02734−0038	FROST STREET	FRISCEM M	C8−1	V1	0		2376	370

Section Two: Toxic Site Profiles

The heading of each *Toxic Site Profile* refers to the site's map location and details:

- The facility name, address, city, state, and zip code.
- Any changes that were made to a site's address in order to map its location.
- The site mapping method that was used (see ***How Sites are Located***, at the end of this section for more information).

Toxic Site Profiles summarize information provided by site owners or operators and government agencies regarding various toxic chemical activities reported at each site, such as:

- Whether chemicals were stored, produced, transported, discharged or disposed of.
- The name of chemicals and their Chemical Abstract Series (CAS) numbers.
- The amount of chemicals and the units (gallons/pounds) the chemical was measured in.
- Whether the site or storage tanks at the site are currently active or inactive.
- Special codes used by government agencies to regulate hazardous waste activities at some sites, or a complete description of the codes follows the profiles section.

For selected individual chemicals reported at various toxic sites, some potential health effect summary information appears below the site profile. Each potential health effect summary identifies chemicals by name and by Chemical Abstract Series (CAS) Number. An "x" under each potential health effect heading indicates positive toxicity testing results reported by the National Institute of Occupational Safety and Health's Registry of Toxic Effects of Chemical Substances (RTECS). Some chemicals (mostly appearing in profiles of Hazardous Waste facilities), are reported as mixtures, and RTECS health effect information is only available for individual chemicals. In addition, RTECS only provides information on approximately 100,000 common chemicals. Consequently, the absence of potential health effect summary information for a particular chemical identified in a Toxic Site Profile does not necessarily mean that the chemical does not pose potential health effects.

The Maximum Contaminant Level (MCL) in drinking water allowed for selected chemicals is also noted. In most cases, the only applicable MCL has been set by the New York State Department of Health (NYSDOH). Where NYSDOH has not set an MCL, the federal standard, if one exists, is listed and is marked by an asterisk.

Presented below are column headings that describe the health effect definitions used in RTECS and applicable New York State and federal drinking water standards. Reference sources for information presented in this section are also provided.

ACUTE TOX: **Acute Toxicity**: Short-term exposure to this chemical can cause lethal and non-lethal toxicity effects not included in the following four categories.

TUMOR TOX: **Tumorigenic Toxicity**: The chemical can cause an increase in the incidence of tumors.

MUTAG TOX: **Mutagenic Toxicity**: The chemical can cause genetic alterations that are passed from one generation to the next.

REPRO TOX: **Reproductive Toxicity**: May signify one of the following effects: maternal effects, paternal effects, effects on fertility, effects on the embryo or fetus, specific developmental abnormalities, tumorigenic effects, or effects on the newborn (only positive reproductive effects data for mammalian species are referenced).

IRRIT TOX: **Primary Irritant**: The chemical can cause eye or skin irritation.

MCL: **Drinking Water Standard - Maximum Contaminant Level** (MCL) listed under Drinking Water Supplies, 10 NYCRR Part 5, Subparts 1.51(f),(g), and (h) for NYDOH MCL's and under the Safe Drinking Water Act, 40 CFR 141, Subparts B and G, (* indicates value for total trihalomethanes) for federal MCL's.

Reference Source for Toxicity Information: Registry of Toxic Effects of Chemical Substances (RTECS), NIOSH (on-line database); For further information, contact: NIOSH, 4676 Columbia Parkway, Cincinnati, OH, 45226, 800/35-NIOSH.

Reference Source for Drinking Water Standards: New York State Department of Health, Bureau of Toxic Substances Assessment, 2 University Place, Room 240, Albany, NY 12203, 518/458-6373.

U.S. Environmental Protection Agency, Office of Drinking Water, 401 M St SW, Mailstop WH-556, Washington, DC, 20460, 202/260-5700.

Inactive Hazardous Waste Disposal Site Classifications:

1 -- Causing or presenting an imminent danger of causing irreversible or irreparable damage to the public health or the environment -- immediate action required;
2 -- Significant threat to the public health or environment -- action required;
3 -- Does not Present a significant threat to the environment or public health -- action may be deferred;
4 -- Site properly closed --requires continued management;
5 -- Site properly closed, no evidence of present or potential adverse impact -- no further action required;
2a -- This temporary classification has been assigned to sites where there is inadequate data to assign them to the five classifications specified by law;
A -- Work underway and not yet complete;
P -- Potential Site;
$D_{1, 2, 3}$ -- Delisted Site (1: hazardous waste not found; 2: remediated; 3: consolidated site or site incorrectly listed);
C -- Remediation Complete (formerly D2).

NATIONAL PRIORITIES LIST (NPL) SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS
NO DELISTED NPL SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 1 **NEWTOWN CREEK** **EPA Facility Id: NYN000206282**
SOUTH END OF IVY HILL ROAD BROOKLYN, QUEENS, NY 11222 TT−Id: 100A−0006−584

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE − LARGE SITE
Approximate distance from property: 4730 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code:

****

Newtown Creek
New York
EPA ID#: NYN000206282
EPA REGION 2
Congressional District(s): 12,14
Queens, Kings Counties

NPL LISTING HISTORY
Proposed Date: 9/23/2009
Final Date: 9/29/2010

Site Description
Newtown Creek is a 3.8−mile long tidal water body located in the City of New York, having five principal tributaries (Dutch Creek, Whale Creek, Maspeth Creek, East Branch and English Kills) and is itself a tributary of the East River. The creek is a part of the New York ˘ New Jersey Harbor Estuary that forms the north−south border between the New York City boroughs of Brooklyn and Queens. In the mid 1800s, the area adjacent to the 3.8 mile Newtown Creek was one of the busiest hubs of industrial activity in New York City. More than 50 refineries were located along its banks, including oil refineries, petrochemical plants, fertilizer and glue factories, sawmills, and lumber and coal yards. The creek was crowded with commercial vessels, including large boats bringing in raw materials and fuel and taking out oil, chemicals and metals. In addition to the industrial pollution that resulted from all of this activity, the city began dumping raw sewage directly into the water in 1856. During World War II, the creek was one of the busiest ports in the nation. Currently, factories and facilities still operate along the creek. Various contaminated sites along the creek have contributed to the contamination at Newtown Creek. Many businesses along Newtown Creek still operate without city−provided sewer services.

Water flow into Newtown Creek currently consists mostly of storm water runoff, combined sewer overflows (CSO), and discharges from permitted and unpermitted pollution sources. The creek rises and falls with the tide, but it is mostly

stagnant. Newtown Creek is a navigable waterway under the jurisdiction of the Coast Guard, and the channel must be maintained for shipping purposes.

Various sediment and surface water samples have been taken along the creek. Hazardous substances, including pesticides, metals, PCBs, and volatile organic compounds (VOCs), have been detected at the creek. The New York City Department of Environmental Protection has sampled sediment and surface water at a number of locations in creek sediments since 1980. Investigations and remediation under state or federal programs have also been conducted at properties adjacent to the creek to abate continued discharges of pollution to the creek from those facilities.

The majority of the upland area bordering Newtown Creek is within one of three Industrial Business Zones of the City of New York, and the majority of Newtown Creek has also been designated by the City of New York as one of the Citys six Significant Maritime and Industrial Areas. However, the creek is also currently used occasionally for recreational purposes by kayakers and there is fishing access along the banks.

Threat and Contaminants
EPA conducted an Expanded Site Investigation (ESI) of Newtown Creek in 2009 as part of the Hazard Ranking System scoring process for NPL listing under Superfund. Based on the ESI, which was focused on Newtown Creek itself and not its tributaries, EPA concluded that metals, volatile organic compounds, and semi−volatile organic compounds (including polycyclic aromatic hydrocarbons and polychlorinated biphenyls) were present in Creek sediments at elevated concentrations. The variety and distribution of the detected contaminants suggests that they originated from a variety of sources. Previous environmental investigations of Newtown Creek, or specific portions of the Creek, also disclosed that sediments in Newtown Creek are contaminated by a wide variety of hazardous substances. Environmental investigations of upland parcels adjacent to or nearby the Creek have disclosed contamination of those parcels by hazardous substances similar to hazardous substances found in sediments in Newtown Creek.

Cleanup Approach
Following the ESI in 2009, Newtown Creek was proposed by EPA for listing on the National Priorities List under Superfund on September 23, 2009. Field work for the Remedial Investigation/Feasibility Study (RI/FS) in the creek began in November 2011. The RI/FS process will characterize environmental conditions at Newtown Creek and connecting tributaries, determine the nature of the waste, assess risk to human health and the environment, and evaluate potential cleanup alternatives.

At present, EPA has identified six Potentially Responsible Parties (PRPs) for the Newtown Creek site: BP America, Inc., The Brooklyn Union Gas Company d/b/a National Grid NY, ExxonMobil Oil Corporation, Phelps Dodge Refining Corporation, Texaco, Inc. −known as the Newtown Creek Group and the City of New York. These parties are believed by EPA to have contributed hazardous substances into Newtown Creek through operations conducted along the creek. EPA has completed the negotiations with these parties to perform the RI/FS under EPA oversight. The Administrative Order on Consent was signed on July 7, 2011. EPA anticipates that additional PRPs will be identified and that they will be given the opportunity of joining as respondents under the Order. Under Superfund, responsible parties are liable for the cost of investigating and remediating sites where hazardous substances have been released or have come to be located.

EPA has approved several documents submitted by Anchor QEA, the environmental consulting firm hired by the PRPs. These documents include the Quality Assurance Project Plan (QAPP), the Field Sampling and Analysis Plan (FSAP), the Data Collection Plan (DCP), and the Data Management Plan (DMP) and are found on the regional EPA web page for Newtown Creek. As other documents are approved, they will be added to the web page.

EPA held two public information sessions in Brooklyn, N.Y. at St. Nicks Alliance on Kingsland Ave., and in Queens, N.Y. at LaGuardia Community College in Long Island City to answer questions from the public and discussed the timeline of the Remedial Investigation/Feasibility Study (RI/FS) process.

A Community Advisory Group (CAG) was ratified in May 2012.

Cleanup Progress
Newtown Creek was proposed for NPL site listing on September 23, 2009 and finalized on the NPL on September 29, 2010. EPA has completed been negotiating with the Newtown Creek Group and the City of New York on the implementation of the RI/FS for the Site. The PRPs are currently conducting field work for a multi-year phased remedial investigation. Field work began in November 2011 and continues on through the summer of 2012. Field activities included: the shoreline assessment, creek-bed surveys (bathymetric, magnetic, side-scan sonar), fish community surveys, sediment sampling (sub-surface coring and surface grab samples) and surface water sampling. All Phase 1 sampling efforts are expected to finish in the fall of 2012. The data from these sampling events will be reviewed and used to guide the development of the next phase of sampling.

Site Repositories
EPA Region 2 Superfund Records Center, 290 Broadway, 18th Floor, New York, NY 10007-1866
Greenpoint Public Library, 107 Norman Ave. at Leonard St., Brooklyn, NY; 718-349-8504
Long Island City Public Library, 37-44 21st Street Queens, NY; 718-752-3700

August 1, 2012

INACTIVE HAZ WASTE DISPOSAL REGISTRY OR REGISTRY−QUALIFYING SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 2 **CITY BARREL CO.** **Facility Id: 224005**
421−429 MEEKER STREET BROOKLYN, NY 11378 TT−Id: 120A−0001−368

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 198 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11222

This facility has been deleted from the reported data. Data reflects last reported information.

****

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224005
CLASSIFICATION CODE: D1 REGION: 2 EPA ID:
CLASSIFICATION CODE DESCRIPTION:
Delisted site − hazardous waste not found

NAME OF SITE: City Barrel Co.
STREET ADDRESS: 421−429 Meeker Street
TOWN/CITY: Brooklyn ZIP: 11378 COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE:

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME.....:
ADDRESS..: 421−429 Meeker Street, Brooklyn, 11378
OWNER DURING DISPOSAL:
NAME.....:
OPERATOR(S) DURING DISPOSAL:
NAME.....:
ADDRESS..:

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
This site was listed in the Eckhardt subcommittee report as a disposal site. Investigation by the NYSDEC Regional offices indicate that this is an industrial operation to recycle, recover and refurbish drums and that no apparent disposal of hazardous or toxic waste have occurred here.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
Unknown	

ANALYTICAL DATA AVAILABLE FOR: Air− Surface Water− Groundwater− Soil− Sediment−
APPLICABLE STANDARDS EXCEEDED IN: Groundwater− Drinking Water− Surface Water− Air−

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION: Type: State− Federal−
STATUS: Negotiation in Progress− Order Signed−
REMEDIAL ACTION: Proposed− Under Design− In Progress− Completed−
NATURE OF ACTION:

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None known. No apparent disposal of significant quantities of any hazardous waste.

ASSESSMENT OF HEALTH PROBLEMS:

Map Identification Number 3 **BQE/ANSBACHER COLOR & DYE FACTORY** **Facility Id: 224016**
MEEKER AVENUE BROOKLYN, NY TT−Id: 120A−0004−734

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 2292 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224016

CLASSIFICATION CODE: 03 REGION: 2 DEC ID: 55913
CLASSIFICATION CODE DESCRIPTION:
Does not present a significant threat to the public health or the environment − action may be deferred.

NAME OF SITE: BQE/Ansbacher Color & Dye Factory
STREET ADDRESS: Meeker Avenue TOWN: New York City
CITY: Brooklyn ZIP: COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill−X Treatment Pond− ESTIMATED SIZE: 0.6 Acre

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: NYS Department of Transportation Owner Type: Other State Agency (State Government)
ADDRESS: STATE CAMPUS, BUILDING 5
ALBANY, NY 12232

NAME: NYS Department of Transportation
ADDRESS: State Campus − Building 5
Albany, NY 12232

OWNER(S) DURING DISPOSAL:
NAME: ANSBACHER COLOR & DYE FACTORY
ADDRESS:

OPERATOR(S) DURING DISPOSAL:
NAME: ANSBACHER COLOR & DYE FACTORY Operator Type: Other State Agency (State Government)
ADDRESS: MEEKER AVENUE
BROOKLYN, NY

NAME: Ansbacher Color & Dye Factory
ADDRESS: Meeker Avenue
Brooklyn, NY 11211

SITE DESCRIPTION:
This site lies underneath the elevated Brooklyn − Queens Expressway (I−278) along Meeker Avenue between Metropolitan and Union Avenues in the Williamsburg Section of Brooklyn. It is believed that during the construction of the BQE, waste material and debris from the former Ansbacher Color & Dye Factory may have been used as fill material in the project area. A Phase II − type

investigation was conducted by the New York State Department of Transportation in 1988. The investigation found hazardous levels of arsenic and lead in the soil and elevated levels of arsenic, lead and cyanide in the groundwater.
During the reconstruction of the BQE in the early 1990s, the NYSDOT completed an IRM (soil removal) within the project's right-of way. The remaining contaminated soil is located beneath asphalt and concrete.
A Preliminary Site Assessment was completed during the summer of 1999 to evaluate the areas outside the BQE footprint. The sampling results indicate that the subsurface soils within the footprint of the former Ansbacher Plant contain elevated levels of arsenic, lead, and mercury. The groundwater in this area is also contaminated with these metals, but the contaminated groundwater has not migrated significantly beyond the footprint of the former factory.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
LEAD	UNKNOWN
ARSENIC	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
The primary contaminants of concern at this site are arsenic, lead, mercury and cyanide.

Investigations indicate that the subsurface soils within the footprint of the former Ansbacher Plant contain elevated levels of arsenic, lead, and mercury. The groundwater in this area is also contaminated with these metals.

The site does not constitute a significant threat to the environment as the contaminated soil is covered by existing layers of asphalt and concrete, and the contaminated groundwater has not migrated significantly beyond the footprint of the former factory.

ASSESSMENT OF HEALTH PROBLEMS:
Residual arsenic and lead contamination remain under the BQE and is covered with several layers of concrete and asphalt, thereby preventing direct contact. Contaminated soil also underlies several on-site buildings formerly used by Ansbacher. Groundwater in the area is not used, since public water is available. Off-site sampling of surface soils from residential yards adjacent to the site indicated the presence of metals (particularly arsenic and lead) at concentrations above the range of concentrations typically encountered in urban neighborhoods. However, the exact source of the metals in the soils could not be determined from the data collected. The NYSDOH gave the residents advice on how to minimize their exposure to these surface soil contaminants.

PROJECT COMPLETIONS:
Operable Unit 01 - Remdial Program

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization		03/10/2000	Actual

Operable Unit 01A - IRM SOIL REMOVAL

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Action		08/01/1991	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR: Air- Surface Water- Groundwater-X Soil-X Sediment-

APPLICABLE STANDARDS EXCEEDED IN: Groundwater−X Drinking Water− Surface Water− Air−

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE: Fill over alluvium.
GROUNDWATER DEPTH: Range: 25 to 30 feet.

LEGAL ACTION:	Type:	State−	Federal−
STATUS:	Negotiation in Progress−	Order Signed−	
REMEDIAL ACTION:	Proposed− Under Design−	In Progress−	Completed−X
NATURE OF ACTION:	IRM−Soil removal.		

Map Identification Number 4 **K − WYTHE AVE. STATION** **Facility Id: 224069**
WYTHE AVE., BERRY ST., N 12TH & 13TH ST BROOKLYN, NY 11211 TT−Id: 120A−0006−088

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 2834 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224069
CLASSIFICATION CODE: A REGION: 2 DEC ID: 378992
CLASSIFICATION CODE DESCRIPTION:
Work is underway and not yet complete.

NAME OF SITE: K − Wythe Ave. Station
STREET ADDRESS: Wythe Ave., Berry St., N 12th & 13th St TOWN: New York City
CITY: Brooklyn ZIP: 11211 COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 2 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME.....:
ADDRESS..:

SITE DESCRIPTION:
Location: The Wythe Avenue (Berry Street)Holder Station is comprised of ten parcels of land located in Brooklyn, New York, Kings County. The site is bounded by North 13th Street, North 12th Street and Wythe Avenue.

Site Features: The main site features include several large warehouse buildings, loading docks and a paved parking lot in the NNE corner.

Current Zoning/Use(s): The current land use for the parcels includes industrial and manufacturing.

Historical Use(s): The gas holder and associated buildings operated at the site from sometime between 1903 and 1908 until sometime between 1951 and 1965. The holders operated sloely as gas distribution holders. No gas production facilities were present at the site. In 1965 the holders and all associated MGP buildings were dismantled when the property was sold.

Geology and Hydrogeology: Although site-specific geologic information is not yet available, the area is typically underlain by up to 20 feet of urban fill material, then various layers of gravelly sands, silts and clays. bedrock is typically located between 90 and 100 feet below ground surface. Groundwater is typically found between 10 and 12 feet bgs, and generally flows to the southwest.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Pre-Remediation: Site Characterization work is tentatively scheduled for early spring, 2012.

ASSESSMENT OF HEALTH PROBLEMS:
The NYSDOH will evaluate the potential for impacts to public health from exposure to site contaminants once sufficient information from the investigation of the site becomes available for review.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-	Soil-	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:

SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 5 **FORMER KLINK COSMO CLEANERS** **Facility Id: 224130**
364 RICHARDSON STREET BROOKLYN, NY 11222 TT−Id: 120A−0004−754

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 2857 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224130
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 405851
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: Former Klink Cosmo Cleaners
STREET ADDRESS: 364 Richardson Street TOWN: New York City
CITY: Brooklyn ZIP: 11222 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 1.08 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
224121	HW Site ID
224129	HW Site ID
224131	HW Site ID

224132 HW Site ID

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: PAVLOVICH & COMPANY Owner Type: PRP − Class 2 HazSubs
ADDRESS: 460 MORGAN AVENUE
BROOKLYN, NY 11222−5706

SITE DESCRIPTION:
Location:

The site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the southwest corner of the intersection of Vandervoort Avenue and Richardson Street.

Site Features:

The site is completely covered by a one−story brick building. Numerous other commercial and industrial properties are located to the north, south, and west of the site. The Greenpoint Little League fields and a National Grid energy facility are east of the site across Vandervoort Avenue. A small residential area is located 1−2 blocks north of the site. An eastbound on−ramp to the Brooklyn−Queens Expressway (I−278) is located 4 blocks to the north.

Current Zoning/Use(s):

The site is zoned for manufacturing. The site is currently used for sheet metal fabrication.

Historical Use(s):

The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on interviews with multiple residents indicating the site’s former usage as a commercial dry cleaner from the 1950’s to the mid 1990’s (including one former employee), and a Department database which lists the cleaners as a generator of F002 waste (spent halogenated solvents). This investigation was conducted in several phases, and was completed in the Summer of 2009.

Site Geology and Hydrogeology:

The site is underlain by a fill unit (0.5−8’ thick), a sand/silty sand unit (~100’ thick), a discontinuous clay/silt unit (~1−10’ thick) within the sand/silty sand unit, a sand and gravel unit (~1−3’ thick), and the Raritan Formation (located 108−113’ below ground surface).

Groundwater is approximately 24−50’ below ground surface in the vicinity of the site. Groundwater flows north to northeast toward Newtown Creek, which lies approximately 3,000’ northeast of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY

TETRACHLOROETHYLENE (PCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and Extent of Contamination:

− Groundwater

The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE has been found in shallow groundwater at concentrations up to 46,000 ppb, which is well above the Part 703.5 class GA standard of 5 ppb. PCE has also been found in very deep groundwater (atop the Raritan clay) at 4,500 ppb. The plume of PCE−contaminated groundwater has migrated at least 1,200' downgradient of the site.

− Soil Vapor

PCE has been found in soil vapor beneath the site at concentrations up to 48,200,000 ug/m^3.

Significant Threat:

The site poses a significant environmental threat due to ongoing releases of PCE from source areas into soil and groundwater.

ASSESSMENT OF HEALTH PROBLEMS:
Exposure to site−related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site−related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 6 **ACME STEEL/METAL WORKS** **Facility Id: 224131**
95 LOMBARDY STREET BROOKLYN, NY 11222 TT−Id: 120A−0004−755

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 3157 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224131
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 405853
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: ACME Steel/Metal Works
STREET ADDRESS: 95 Lombardy Street TOWN: New York City
CITY: Brooklyn ZIP: 11222 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 1.01 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
224121	HW Site ID
224129	HW Site ID
224130	HW Site ID
224132	HW Site ID

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: NYC IDA Owner Type: PRP − Class 2 HazSubs
MAUREEN BABIS
ADDRESS: 110 WILLIAM STREET
NEW YORK, NY 10038

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:
NAME: ACME ARCHITECTURAL PRODUCTS, INC. Operator Type: PRP − Class 2 HazSubs
PAUL BURDYN
ADDRESS: 251 LOMBARDY STREET
BROOKLYN, NY 11222

SITE DESCRIPTION:
Location:

The site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the east side of Vandervoort Avenue between Anthony and Lombardy Streets.

Site Features:

The site is completely covered by one (1) two−story and three (3) one−story brick buildings. The site is surrounded by other commercial and industrial properties. Sergeant William Dougherty Playground is located immediately north of the site across Anthony Street, and the eastbound on−ramp to the Brooklyn−Queens Expressway (I−278) is located one block to the north. A small residential area is located one block south of the site.

Current Zoning/Use(s):

The site is zoned for manufacturing. The site is currently used as a granite warehouse and showroom at 95 Lombardy Street, and a paper distribution office and a kitchen cabinet warehouse/showroom at 46 Anthony Street.

Historical Use(s):

The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on Sanborn fire insurance map data indicating that the site was utilized as a metal fabricator and painting facility from the 1930’s to the late 2000’s, and a Department database which lists the site as a generator of F001 waste (spent halogenated solvents used in de−greasing). This investigation was conducted in several phases, and was completed in the Summer of 2009.

Based on an extensive records search and several inspections, it was determined that waste paint, waste oil, waste degreasers, and waste water precipitate were generated at the property during site operations. Numerous floor drains with unknown outfall locations existed within the property, and were identified as potential injection wells. In addition, an underground storage tank that was used as a dip tank and for storing degreasing products was located in the northwest corner of the site. Several pipes that originated from the dip tank discharged to a floor drain in the loading dock area.

Site Geology and Hydrogeology:

The site is underlain by a fill unit (0.5−9’ thick), a sand/silty sand unit (~100’ thick), a discontinuous clay/silt unit (~1−10’ thick) within the sand/silty sand unit at various depths within the site area, a sand and gravel unit (~5’ thick), and the Raritan Formation (~120−125’ below ground surface).

Groundwater is approximately 35-45' below ground surface in the vicinity of the site. Groundwater flows northeast toward Newtown Creek, which lies approximately 2,500' northeast of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
TRICHLOROETHENE (TCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and Extent of Contamination:

- Groundwater

The primary contaminant of concern at the site is trichloroethene (TCE). TCE has been found on-site in shallow groundwater at concentrations up to 66,000 ppb, and in deep groundwater at concentrations up to 70,000 ppb, well above Part 703.5 class GA standards (5 ppb). Concentrations of tetrachloroethene (up to 1,100 ppb) and 1,2-dichloroethene (3,200 ppb) have also been found above their respective Part 703.5 class GA standards (5 ppb each). The plume of TCE-contaminated groundwater has migrated at least 400' off-site.

Significant Threat:

The site poses a significant environmental threat due to ongoing releases of TCE from source areas into soil and groundwater.

ASSESSMENT OF HEALTH PROBLEMS:
Exposure to site-related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site-related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-	Soil-	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State-	Federal-
STATUS:	Negotiation in Progress-		Order Signed-	
REMEDIAL ACTION:	Proposed-	Under Design-	In Progress-	Completed-

NATURE OF ACTION:

Map Identification Number 7 **FORMER SPIC AND SPAN CLEANERS AND DYERS, INC.** **Facility Id: 224129**
315 KINGSLAND AVENUE BROOKLYN, NY 11222 TT−Id: 120A−0004−572

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 3347 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224129
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 405850
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: Former Spic and Span Cleaners and Dyers, Inc.
STREET ADDRESS: 315 Kingsland Avenue TOWN: New York City
CITY: Brooklyn ZIP: 11222 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 0.51 Acre

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
224121	HW Site ID
224130	HW Site ID
224131	HW Site ID
224132	HW Site ID

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: DELTA PROPERTY ASSOCIATES Owner Type: PRP − Class 2 HazSubs
ADDRESS: 260 NORMAN AVENUE

NEW YORK, NY 11201

NAME: DOUBLE STAR REALESTATE, INC. Owner Type: Innocent Owner −Class 2a/2/3/4/5 HS
ADDRESS: 307 KINGSLAND AVENUE
NEW YORK, NY 11222

NAME: DOUBLE STAR REALESTATE, INC. Owner Type: Innocent Owner −Class 2a/2/3/4/5 HS
FRANK CHAN
ADDRESS: 307 KINGSLAND AVENUE
NEW YORK, NY 11222

SITE DESCRIPTION:

Location:

The site is located in the Greenpoint section of Kings County (Borough of Brooklyn, New York City). The site is located on the southwest corner of the intersection of Kingsland and Norman Avenues.

Site Features:

The site is completely covered by multiple buildings of varying construction and height. Numerous other commercial and industrial properties are located to the north, east, and west of the site. A large residential area is located immediately south of the site, and extends south along both Kingsland Avenue and Monitor Street. A large sewage treatment plan is ~1/2 mile north of the site.

Current Zoning/Use(s):

The site is zoned for both residential and light manufacturing. The site is partially occupied, and is utilized for a variety of purposes (residential, warehousing, woodworking shop, etc.).

Historical Use(s):

The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on Sanborn fire insurance map data indicating that the site was operated by Spic and Span Cleaners and Dyers, Inc. (a.k.a. Eastern District Dye Works) from the early 1900’s until the mid−1960’s. This investigation was conducted in several phases, and was completed in the Summer of 2009.

Site Geology and Hydrogeology:

The site is underlain by a fill unit (0.5−10’ thick), a stratified sand unit with some to no fines (over 120’ thick), a discontinuous glacial till unit within the sand unit (0.5−50’ thick), a discontinuous clayey silt unit within the sand unit (0.5−25’ thick), and the Raritan Formation (~138.5’ below ground surface).

Groundwater is approximately 11−25’ below ground surface in the vicinity of the site. Groundwater flows north to northeast

toward Newtown Creek, which lies approximately 1,300’ northeast of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
TETRACHLOROETHYLENE (PCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and Extent of Contamination:

− Groundwater

The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE has been found in shallow groundwater at concentrations up to 39,000 ppb, and in deep groundwater at concentrations up to 76,000 ppb, well above the Part 703.5 class GA standard of 5 ppb. PCE DNAPL has also been found on−site at concentrations up to 730,000 ppm (73%) in deep monitoring wells. Trichloroethene (up to 3,900 ppb), cis−1,2−dichloroethene (up to 14,000 ppb), and vinyl chloride (up to 3,200 ppb) have also been found in shallow groundwater at concentrations above their respective Part 703.5 class GA standards (5 ppb each).

− Soil

PCE has been found in soil up to 290,000 ppm, well above the soil cleanup objective for unrestricted use (1.3 ppm).

Significant Threat:

The site poses a significant environmental threat due to ongoing release of PCE from source areas into soil and groundwater.

ASSESSMENT OF HEALTH PROBLEMS:
Exposure to site−related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site−related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

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LEGAL ACTION:                Type:                              State-            Federal-
STATUS:                      Negotiation in Progress-           Order Signed-
REMEDIAL ACTION:             Proposed-       Under Design-      In Progress-      Completed-
NATURE OF ACTION:
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Map Identification Number 8 **K - WILLIAMSBURG WORKS** **Facility Id: 224055**

KENT AVE & 12TH STREET BROOKLYN, NY 11211- TT-Id: 120A-0006-234

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 3567 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: KENT AVE / N 12TH STREET
Revised zip code: 11211

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

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                                                                                    SITE CODE: 224055
CLASSIFICATION CODE: A                                  REGION: 2                   DEC ID:    372653
CLASSIFICATION CODE DESCRIPTION:
  Work is underway and not yet complete.

NAME OF SITE:    K - Williamsburg Works
STREET ADDRESS:  Kent Ave & 12th Street                                                TOWN:   New York City
CITY:            Brooklyn                       ZIP: 11211-                            COUNTY: Kings

SITE TYPE:       Dump-   Structure-   Lagoon-   Landfill-   Treatment Pond-      ESTIMATED SIZE: 4.7 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
  None reported

CROSS REFERENCES:
    IDENTIFIER                SOURCE
  ------------------   ---------------------------
  224028               HW Site ID

SITE OWNER/OPERATOR INFORMATION:
  CURRENT OWNER(S):
    NAME.....:
    ADDRESS..:
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SITE DESCRIPTION:

Transition from V00704 and C224055. The Williamsburg Works Manufactured Gas Plant (MGP) site is composed of three parcels of land located on the east bank of the East River in Brooklyn New York in Kings County. The site is located between North 11th and North 12th Streets on the west side of Kent Avenue. A manufactured gas plant operated om the site from at least 1887 to 1916 according to Sanborn Fire Insurance(Sanborn) maps.

Current land use includes a document storage warehouse, an inactive petroleum terminal, and one vacant lot which until recently housed a Sanitation Dep't garage.

The City of NY has identified this site for construction of a proposed waterfront park, which would extend far beyound site boundaries to the north and south. One parcel (50 Kent Avenue) has already been acquired. An IRM is slated for this parcel in late 2012.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

According to the USEPA, a preliminary assessment (PA) was prepared for the site dated September 24, 1986. A copy of the PA was not supplied with the application. The environmental assessment for this site has not yet been completed. The site is the confirmed location of a historic MGP. MGPs have known onsite by products of DNAPL and purifier waste. The materials are made up of BTEX, PAHs, and cyanide. The DNAPL causes contravention of both groundwater and soil SCGs. The site is also adjacent to the East River and several public and private buildings, including residences. DNAPL is known to migrate into surface water bodies, contaminating sediment. The BTEX components are also known to contribute to soil vapor issues. There are already reports of tar seeping into the East River and tar has been found on an adjacent property.

ASSESSMENT OF HEALTH PROBLEMS:

The NYSDOH will evaluate the potential for impacts to public health from exposure to site contaminants once sufficient information from the investigation of the site becomes available for review.

PROJECT COMPLETIONS:

None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air–	Surface Water–	Groundwater–	Soil–	Sediment–
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater–	Drinking Water–	Surface Water–	Air–	

GEOTECHNICAL INFORMATION:

SOIL/ROCK TYPE:

GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 9 **ACME STEEL/BRASS FOUNDRY** **Facility Id: 224132**
72 ANTHONY STREET BROOKLYN, NY 11222 TT−Id: 120A−0006−606

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 3641 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224132
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 405855
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: ACME Steel/Brass Foundry
STREET ADDRESS: 72 Anthony Street TOWN: New York City
CITY: Brooklyn ZIP: 11222 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 1.21 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
224121	HW Site ID
224129	HW Site ID
224130	HW Site ID
224131	HW Site ID

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER(S):
NAME: NYC IDA
MAUREEN BABIS
ADDRESS: 110 WILLILAM STREET
NEW YORK, NY 10038
Owner Type: PRP − Class 2 HazSubs

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:
NAME: ACME ARCHITECTURAL PRODUCTS, INC.
PAUL BURDYN
ADDRESS: 251 LOMBARDY STREET
BROOKLYN, NY 11222
Operator Type: PRP − Class 2 HazSubs

SITE DESCRIPTION:

Location:

The site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the east side of Porter Avenue between Anthony and Lombardy Streets.

Site Features:

The site is covered by several two−story buildings and two (2) separate open lots. The site is surrounded by other commercial and industrial properties. A large National Grid energy facility is located one block south of the site across Lombardy Street. Sergeant William Dougherty Playground is located one block northwest of the site across Anthony Street, and the elevated Brooklyn−Queens Expressway (I−278) is located one block to the north. A small residential area is located one block southwest of the site.

Current Zoning/Use(s):

The site is zoned for manufacturing. The site is currently used as a marble and granite distribution warehouse and a fruit distribution warehouse at 72 Anthony Street, and a City−Wide truck maintenance shop at 498 Porter Avenue.

Historical Use(s):

The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on Sanborn fire insurance map data indicating that the site was utilized as a brass foundry from the 1960’s to 1993, and a Department database which lists the site as a generator of F001 waste (spent halogenated solvents used in de−greasing). This investigation was conducted in several phases, and was completed in the Summer of 2009.

Based on an extensive records search and several inspections, it was determined that waste paint, waste oil, waste degreasers, and waste water precipitate were generated at the property during site operations. Numerous floor drains with unknown outfall locations existed within the property, and were identified as potential injection wells. Several storage tanks that were used as

dip tanks for degreasing products were located in the northeast corner of the site, where evidence of releases existed. In addition, the open lot adjacent to the 72 Anthony Street building was used as a drum storage area that held all chemical wastes from the surrounding ACME facilities.

Site Geology and Hydrogeology:

The site is underlain by a fill unit (0.5−9′ thick), a sand/silty sand unit (~110′ thick), a discontinuous clay/silt unit (~1−10′ thick) within the sand/silty sand unit at various depths within the site area, a sand and gravel unit (~5′ thick), and the Raritan Formation (~130−135′ below ground surface).

Groundwater is approximately 45−55′ below ground surface in the vicinity of the site. Groundwater flows northeast toward Newtown Creek, which lies approximately 2,000′ northeast of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
TETRACHLOROETHYLENE (PCE)	UNKNOWN
TRICHLOROETHENE (TCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and Extent of Contamination:

− Groundwater

The primary contaminants of concern at the site are tetrachloroethene (PCE) and trichloroethene (TCE). Both PCE (up to 6,900 ppb) and TCE (up to 12,000 ppb) have been found at concentrations well above the Part 703.5 class GA standard of 5 ppb. The plume of PCE and TCE−contaminated groundwater has migrated at least 400′ off−site.

− Soil

PCE has been found in on−site soils at concentrations up to 220 ppm, which is above the soil cleanup objective for unrestricted use (1.3 ppm).

Significant Threat:

The site poses a significant environmental threat due to ongoing releases of TCE from source areas into soil and groundwater.

ASSESSMENT OF HEALTH PROBLEMS:
Exposure to site−related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site−related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.

PROJECT COMPLETIONS:

None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 10 **BROOKLYN NORTH 1 GARAGE** **Facility Id: 2−019**
50 KENT AVENUE BROOKLYN, NY TT−Id: 180A−0001−343

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 3858 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT
REGION: 2

NAME OF SITE: Brooklyn North 1 Garage
STREET ADDRESS: 50 Kent Avenue
TOWN/CITY: Brooklyn COUNTY: Kings

Registry Qualifying Investigations Underway as of 07/1998

Map Identification Number 11 **K − EQUITY WORKS** **Facility Id: 224050**
MASPETH AND VANDERVORT AVES. BROOKLYN, NY 11211− TT−Id: 120A−0005−853

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 3888 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224050
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 372655
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: K − Equity Works
STREET ADDRESS: Maspeth and Vandervort Aves. TOWN: New York City
CITY: Brooklyn ZIP: 11211− COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 2 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: WEST TERMINAL LLC
C/O MIRIAM CHAN
ADDRESS: 816 56TH STREET
BROOKLYN, NY 11220

SITE DESCRIPTION:
The Equity Works Manufactured Gas Plant (MGP) site is located oin an urban area in the Greenpoint section of Brooklyn, Kings County. The site is composed of three parcels of land including 222, 252 and 254 Maspeth Ave, totalling approximately 2 acres in size. The site is approximately 2 blocks from the English Kill, a tributary of Newtown Creek.

The current land use includes industrial, manufacturing, transportation, utility and vacant land. The Equity site is currently operated by Cooper Tank as a C&D sorting facility. The nearest residential property is located approximately 1000 feet to the

south.

The MGP on this site was relatively small, and operated from at least 1907 until sometime prior to 1933 according to Sanborn Fire Insurance Maps. The Greenpoint Energy Center, containing the far larger Greenpoint former MGP, is located across Maspeth Avenue to the north.

Transitioned from V00699 and C224050. A Remedial Investigation began in 2009 and is ongoing.

The site is underlain by historic fill, glacial outwash sands, and silty clay. The groundwater table is approximately 5 to 10 feet below ground surface. Groundwater flow is generally toward the English Kill, to the east.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
The RI is underway, so the environmental assessment for this site has not yet been completed. The site is the confirmed location of a historic MGP. DNAPL has been encountered on site during the installation of construction borings. Preliminary RI results indicate that tar has almost certainly migrated onto adjacent properties.

Cooper tank’s on site well (used to supply dust suppression water) has a column of tar in it several feet high, so the tar is clearly mobile. National Grid has arranged to provide city water, so that use of the well is now discontinued.

Coal tar from MGP sites contains BTEX, PAHs, and cyanide. The presence of DNAPL represents a significant threat to the environment. The site is also adjacent to Newtown Creek and several public and private buildings, including residences. DNAPL is known to migrate into surface water bodies, contaminating sediment. The BTEX components may also contribute to soil vapor issues.

ASSESSMENT OF HEALTH PROBLEMS:
Persons who dig below the ground surface may come into contact with contaminants in subsurface soil and groundwater. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. An on−site pumping well/process water well used for dust suppression and cleaning is treated prior to use. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for people to inhale site contaminants in indoor air due to soil vapor intrusion in any future on−site building development and occupancy. Soil vapor intrusion has been evaluated in the two on−site buildings. Soil vapor intrusion was occurring in one structure and measures have been taken to prevent contaminated soil vapor from entering the structure. Soil vapor intrusion has yet to be evaluated off−site.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR: Air− Surface Water− Groundwater− Soil− Sediment−
APPLICABLE STANDARDS EXCEEDED IN: Groundwater− Drinking Water− Surface Water− Air−

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 12 **MOBIL OIL BROOKLYN TERMINAL** **Facility Id: 224013**
300 N. HENRY ST. BROOKLYN, NY TT−Id: 120A−0001−366

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 3966 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: 300 N HENRY ST
Revised zip code: 11222

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224013
CLASSIFICATION CODE: D1 REGION: 2 EPA ID:
CLASSIFICATION CODE DESCRIPTION:
Delisted site − hazardous waste not found

NAME OF SITE: Mobil Oil Brooklyn Terminal
STREET ADDRESS: 300 N. Henry St.
TOWN/CITY: Brooklyn ZIP: COUNTY: Kings

SITE TYPE: Dump−X Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 15 Acres

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):

NAME.....:
ADDRESS..: 300 N. Henry St., Brooklyn,
OWNER DURING DISPOSAL:
NAME.....: Mobil Oil
OPERATOR(S) DURING DISPOSAL:
NAME.....:
ADDRESS..:

HAZARDOUS WASTE DISPOSAL PERIOD: from 1900 to 1985

SITE DESCRIPTION:
Large storage area. Facility was built on an old refinery. Possiblity of groundwater contamination due to poor operation. Newton Creek is adjacent to the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
Gasoline, Kerosene, Fuel Oil, Others	Unknown

ANALYTICAL DATA AVAILABLE FOR: Air- Surface Water- Groundwater- Soil- Sediment-
APPLICABLE STANDARDS EXCEEDED IN: Groundwater- Drinking Water- Surface Water- Air-

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION: Type: State- Federal-
STATUS: Negotiation in Progress- Order Signed-
REMEDIAL ACTION: Proposed- Under Design- In Progress- Completed-X
NATURE OF ACTION:

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Site has been remediated.

ASSESSMENT OF HEALTH PROBLEMS:

Map Identification Number 13 **K − WILLIAMSBURG WORKS** **Facility Id: 224055**
KENT AVE & 12TH STREET BROOKLYN, NY 11211− TT−Id: 120A−0004−748

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE − LARGE SITE
Approximate distance from property: 4095 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: KENT AVE / N 12TH STREET
Revised zip code: 11211

See initial profile for 'K − WILLIAMSBURG WORKS' above.

Map Identification Number 14 **CARBONA PRODUCTS** **Facility Id: 2−017**
330 CALYER STREET BROOKLYN, NY TT−Id: 180A−0001−355

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 4147 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT
REGION: 2

NAME OF SITE:    Carbona Products
STREET ADDRESS:  330 Calyer Street
TOWN/CITY:       Brooklyn                    COUNTY: Kings

Registry Qualifying Investigations Underway as of 04/1998
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Map Identification Number 15 **KENT TERMINAL** **Facility Id: 2−014**
KENT AVE. BETWEEN N.5TH & N.11TH ST. BROOKLYN, NY TT−Id: 180A−0001−324

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 4336 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT
REGION: 2

NAME OF SITE: Kent Terminal
STREET ADDRESS: Kent Ave. between N.5th & N.11th ST.
TOWN/CITY: Brooklyn COUNTY: Kings

Registry Qualifying Investigations Underway as of 10/1996

Map Identification Number 16 **NEWTOWN CREEK** **Facility Id: 241117**
NEWTOWN CREEK (BETWEEN BROOKLYN AND QUEENS) MASPETH, NY 11378 TT−Id: 120A−0006−258

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING − LARGE SITE
Approximate distance from property: 4730 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code:

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 241117
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 410481
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: Newtown Creek
STREET ADDRESS: Newtown Creek (between Brooklyn and Queens) TOWN: New York City
CITY: Maspeth ZIP: 11378 COUNTY: Queens

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond−X ESTIMATED SIZE: 170 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER(S):

NAME: NYS Office of General Services
Division of Real Estate Development
ADDRESS: Bureau of Land Management
26th Floor Corning Tower − Empire State Plaza
Albany, NY 12242
Owner Type: Other State Agency (State Government)

NAME: New York City Law Department
ADDRESS: Office of the Corporation Counsel
100 Church Street
New York, NY 10007−2601
Owner Type: Local Government

SITE DESCRIPTION:

LOCATION:
Newtown Creek is an estuarine waterbody that forms a portion of the boundary between the boroughs of Brooklyn and Queens in New York City. The site definition includes all the waters, shoreline, channel, tidal−affected zones, and sediments of Newtown Creek, and its tributaries (natural, created, and controlled), from its headwaters to its confluence with the East River. Tributaries include Whale Creek (and the Whale Creek Overflow Canal), Dutch Kills, Maspeth Creek, East Branch, and the English Kills.

SITE FEATURES:
The entire creek system extends approximately 3.8 miles from the English Kills to the East River. A substantial portion of the creek is contained by bulkheads or riprap and its width averages 200−300 feet. Average depth in the navigable channels is 20 feet below mean low water level. Total surface area of the creek is approximately 170 acres.

CURRENT ZONING/USE:
The Newtown Creek is primarily used for the transport of materials and goods produced and consumed by the industry, businesses and development projects along its banks. A small amount of recreational boating also occurs there. Various forms of fishing have been documented in the creek despite applicable fishing restrictions in place for the creek waters.

The surrounding area is still very diverse in terms of land use and potential contaminant contributors. Upland areas adjacent to the creek that are contributing to its flow and contaminant loading include oil storage facilities, inactive hazardous waste disposal sites, active manufacturing facilities, spills, and other uncontrolled sources. The total original natural drainage area of the creek and tributaries encompassed nearly 7,650 acres.

HISTORICAL USES:
Newtown Creek is a waterway that has served as a conduit for the transportation of raw materials and products dating back nearly 200 years. It has also been used for the disposal of numerous wastes, including sewage, industrial, and commercial wastes, through outfalls flowing into the creek. Direct releases of wastes have also entered Newtown Creek from the creek banks.

The area immediately surrounding the creek has been, and remains, the location of many forms of industrial and commercial activity. Such historic industrial uses include shipbuilding, textiles, metal smelting, and oil refining.

SITE GEOLOGY & HYDROGEOLOGY:

The original watershed has been permanently altered by urbanization such that there is virtually no freshwater flow to the creek other than stormwater and municipal combined sewer overflows (CSOs) during wet weather. There are 20 CSO outfalls and over 100 stormwater discharges to the Creek. Significant outfalls are located in the English Kills, East Branch, Maspeth Creek, and Dutch Kills. Inflow is estimated to be in excess of 1.4 billion gallons annually. Much of this flow contains significant concentrations of contaminants, including polychlorinated biphenyls (PCBs), metals, oil and grease, coliform bacteria, and solid waste.

The creek is classified by New York State as Class SD saline surface water with best uses designated for fishing and fish survival. Class SD waters have natural or man-made conditions limiting attainment of higher standards. The creek does not attain these standards at present. Documented water quality problems include low dissolved oxygen, odors, and solid waste. Sediments on the creek bottom are contaminated with PCBs, heavy metals such as lead, mercury, and copper, and petroleum hydrocarbons.

OTHER:
The NYSDEC nominated the creek and its tributaries to the National Priorities List (NPL) in January 2009. The site was formally proposed to the NPL on September 23, 2009 and was added to the NPL by rule-making notice in the Federal Register of September 29, 2010.

To document the site's eligibility for the NPL and prepare a Hazard Ranking Score, EPA initiated an Expanded Site Investigation in the creek in February 2009. The investigation included extensive sampling of sediment. The Expanded Site Inspection effort and report were completed in July 2009.

The USEPA is the lead agency and has negotiated and developed an RIFS work plan and adminstrative order on consent with identified responsible parties. The DEC provided comments on the RIFS work plan in February 2011 and the work plan was finalized in July 2011.

Sampling of creek sediments began in April 2012.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
LEAD	UNKNOWN
ZINC	UNKNOWN
PCB-AROCLOR 1254	UNKNOWN
MERCURY	UNKNOWN
POLYCHLORINATED BIPHENYLS (PCB)	UNKNOWN
PCB-AROCLOR 1242	UNKNOWN
COPPER	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Newtown Creek has a history of intensive industrial use dating back nearly 200 years. Historic industrial uses include shipbuilding, textiles, metal smelting, and oil refining. The surrounding area is still very diverse in terms of land use and potential contaminant contributors. Upland areas adjacent to the creek that are contributing to its flow and contaminant loading include oil storage facilities, inactive hazardous waste disposal sites, active manufacturing facilities, spills, and other uncontrolled sources.

The original watershed has been permanently altered by urbanization such that there is virtually no freshwater flow to the creek other than stormwater and municipal combined sewer overflows (CSOs) during wet weather. There are 20 CSO outfalls and over 100 stormwater discharges to the Creek. Significant outfalls are located in the English Kills, East Branch, Maspeth Creek, and Dutch Kills. Inflow is estimated to be in excess of 1.4 billion gallons annually. Much of this flow contains significant concentrations of contaminants, including polychlorinated biphenyls (PCBs), metals, oil and grease, coliform bacteria, and solid waste.

The creek is classified by New York State as Class SD saline surface water with best uses designated for fishing and fish survival. Class SD waters have natural or man−made conditions limiting attainment of higher standards. The creek does not attain these standards at present. Documented water quality problems include low dissolved oxygen, odors, and solid waste.

Newtown Creek was added to the NPL on September 29, 2010. EPA listed the site based on surface water contamination and heavily contaminated sediment. Sampling has detected a variety of pollutants in excess of sediment criteria, including the metals antimony, arsenic, cadmium, chromium, copper, lead, nickel, selenium, silver, and zinc; polycyclic aromatic hydrocarbons (PAH); total petroleum hydrocarbons (TPH); polychlorinated biphenyls (PCBs); and volatile organic contaminants (VOC). The extent of contamination traverses the entire length of the Creek. The contaminants of greatest concern in sediment are:

1) Poly−cyclic aromatic hydrocarbons(PAHs), including several carcinogenic compounds, are ubiquitous in the creek at levels from low ppm up to thousands of ppm in the areas of highest impact.

2) Metals, including Lead with levels up to 2,400 ppm (sediment criteria median effect level (MEL) = 218); Mercury with typical levels in the 1−4 ppm range (MEL= 0.71); Copper with levels from 500 to 39,200 ppm(MEL=270); Zinc with levels up to 15,500 ppm (MEL= 410).

3)Polychlorinated biphenyls (PCBs) are present in accumulated sediments at total concentrations ranging from 1 to 106 ppm, with an average concentration of >3 ppm (DEC sediment criteria is 0.1 ppm).

4) TPH: Petroleum hydrocarbons are ubiquitous,at levels up to 74,000 ppm.

Sediment contamination constitutes a significant threat to the environment.

ASSESSMENT OF HEALTH PROBLEMS:

People using the creek for recreational purposes such as swimming and boating may come into direct contact with chemical contaminants and harmful biological organisms. People may come in contact with contaminants present in the shallow creek sediments while entering or exiting the creek during recreational activities. Fish and shellfish in the creek are likely to contain the same chemical contaminants that are present in surface water and shallow creek sediments; therefore, people who consume fish and shellfish from the creek are likely to be consuming these contaminants as well. People are not drinking the contaminated creek water because the area is served by a public water supply that obtains its water from a different source.

PROJECT COMPLETIONS:

Operable Unit 01 − Remedial Program − NPL Site

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization	Expanded Site Inspection − NPL Evaluation	07/16/2009	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 17 **K − GREENPOINT MGP − ENERGY CENTER** **Facility Id: 224052**
287 MASPETH AVENUE BROOKLYN, NY 11211 TT−Id: 120A−0004−745

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE − LARGE SITE
Approximate distance from property: 4763 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: UNKNOWN

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224052
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 372971
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: K − Greenpoint MGP − Energy Center
STREET ADDRESS: 287 MASPETH AVENUE TOWN: New York City
CITY: Brooklyn ZIP: 11211 COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 117 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: BROOKLYN UNION GAS COMPANY
N/A
ADDRESS: 1 METROTECH CENTER
BROOKLYN, NY 11201

SITE DESCRIPTION:
The Greenpoint Manufactured Gas Plant(MGP) site is a large parcel located along Newtown Creek at 287 Maspeth Avenue in Brooklyn,NY in Kings County. The site is currently known as the Greenpoint Energy Center, and houses a major liquefied natural gas storage facility and compressor station, an operations center for KeySpan's distribution and service units, and a warehouse facility. Surrounding land uses are mixed industrial, residential, and commercial.

A large MGP and byproduct coking operation operated on the site from 1928 until 1952. Coal tar has been found in subsurface soils, but the full extent of contamination has not yet been established. The surrounding neighborhood also conatins a large petroleum spill, apparently unrelated to the MGP.

A VCA to address the northeast corner of the property was listed under V00631. This work was undertaken to allow expansion of the existing liquefied gas facility, and included a relatively small portion of the site. A site-wide RI began in the summer of 2012. The RI will be conducted in 3 phases and is scheduled to conclude in late 2014.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
NAPHTHALENE	17.00
PYRENE	83.00
BENZENE	3.30
BENZO(A)PYRENE	33.00
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
According to the USEPA a preliminary assessment (PA) was prepared for the site dated September 24, 1986. The PA was not submitted or reviewed. A draft preliminary site investigaiton report was submitted to the Department in June 2004 for the northeast corner of the site. This report noted MGP DNAPL found across the site in the shallow depths (0-5 feet bgs) This material caused most of the soil samples to fail standards for several SVOCs including naphthalene, benzo(a)pyrene, and benzo(a)anthracene. The area noted was addressed in an IRM, but should be representative of a best-case for the site as a whole as it was in an area which was not actually part of the MGP operations. These exceedances represent a significant threat to the environment, This material is also known to contribute to groundwater contamination and sediment contamination. The site's location, adjacent to Newtown creek, means there is a potential for DNAPL to be leaking into the creek, contaminating sediments and surface water.
A RI is currently ongoing. The first phase, begun in July 2012 is focused on the eastern portion of the site, adjacent to Newtown

Creek.

ASSESSMENT OF HEALTH PROBLEMS:
Public exposures to wastes in soil and groundwater at the site are unlikely since access to the site is restricted. Potential impacts from soil vapors need to be evaluated. Potential exposures to seepage from the site in the adjacent Newtown Creek are unknown. Eating of fish and shellfish from Newtown Creek is restricted based on fish advisories for the East River, which apply to Newtown Creek as a tributary.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 18 **B.C.F. OIL REFINING, INC.** **Facility Id: 224034**
360−362 MASPETH AVENUE, SOUTHSIDE BROOKLYN, NY 11211 TT−Id: 120A−0001−361

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 4895 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: 360 MASPETH AVENUE, SOUTHSIDE
Revised zip code: NO CHANGE

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224034

CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 56747
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: B.C.F. Oil Refining, Inc.
STREET ADDRESS: 360−362 Maspeth Avenue, Southside TOWN: New York City
CITY: Brooklyn ZIP: 11211 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 1.9 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
9406807	Spill No.
NYD980647283	EPA Site ID
w2−1092−06−08	Agreement/Consent Order Number

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: NEWTON DEVELOPMENT LLC
C/O SETH D. FRIEDLAND, ESQ.
ADDRESS: 62 WILLIAM STREET
THIRD FLOOR
NEW YORK, NY 10005

SITE DESCRIPTION:
The BCF Oil site is located within an urban, industrialized area of East Williamsburg, Brooklyn. Previously existing buildings and above ground storage tanks have been removed, and the property is being used as a Marshall’s impound lot. A National Grid facility borders the site on the north, Newtown Creek on the south, a city automobile impound lot on the east and a scrap metal processing facility on the west. The total area is 1.9 acres, of which 0.3 acres is land under water.

The property was used as a petroleum distribution facility for many years, starting in the early 1900’s. In 1980, the terminal was modified for use as a waste oil processing facility, and was used for waste oil recycling from 1980 to 1994. Routine sampling detected PCBs in the waste oil, and operations ceased in 1994. The property is zoned M3 (manufacturing/industrial), and it is currently used to store impounded automobiles.

The site consists primarily of historic fill placed upon wetlands. Groundwater exists approximately 5 to 10 feet below grade and flows both to the north and south from the site.

A remedial investigation of the site to determine the nature and extent of contamination has been completed. The site is currently being managed as a single operable unit. In addition, there is an open NYSDEC spill at this location; spill #9406807

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
PCB-AROCLOR 1242	UNKNOWN
PCB-AROCLOR 1254	UNKNOWN
PCB-AROCLOR 1260	UNKNOWN
POLYCHLORINATED BIPHENYLS (PCB)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Based upon investigations conducted to date, the primary contaminant of concern at the site are those associated with petroleum. Separate phase petroleum contamination has been detected in numerous locations, although mobile product may be more limited.

The site was extensively assessed for PCB contamination, but no significant levels of PCBs were detected on site. PCBs were detected in the Newtown Creek sediment, but the sediment contamination appears to be part of a larger problem and not related to releases from the site.

A significant threat created by the potential for release of PCB-contaminated oil stored in dilapidated storage tank areas was eliminated by a removal action performed by the USEPA in 2000/2001.

More information about this project can be found in the document repository for the site.

ASSESSMENT OF HEALTH PROBLEMS:

Persons who dig below the ground surface may come into contact with soil and groundwater contaminated with volatile organic compounds. People are not exposed to contaminants in drinking water since the area is served by a public water supply. Also, they are not coming into contact with the groundwater unless they dig greater than 10 feet below the ground surface. Organic compounds in the soil and groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings is referred to as soil vapor intrusion. The potential exists for the inhalation of site-related contaminants in indoor air due to soil vapor intrusion for any future on-site construction.

PROJECT COMPLETIONS:

None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-X	Soil-X	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-X	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:

SOIL/ROCK TYPE: Moraine deposits interbedded with clay.
GROUNDWATER DEPTH: Range: 5 to 10 feet.

LEGAL ACTION: Type: State- Federal-

STATUS: Negotiation in Progress− Order Signed−
REMEDIAL ACTION: Proposed− Under Design− In Progress− Completed−
NATURE OF ACTION:

Map Identification Number 19 **K − SCHOLES ST. STATION** **Facility Id: 224067**
SCHOLES ST 7 BOGART STS, MESSEROLE & MORGAN AVE. BROOKLYN, NY 11206 TT−Id: 120A−0006−087

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 5007 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: SCHOLES ST / MORGAN AVE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224067
CLASSIFICATION CODE: A REGION: 2 DEC ID: 379002
CLASSIFICATION CODE DESCRIPTION:
Work is underway and not yet complete.

NAME OF SITE: K − Scholes St. Station
STREET ADDRESS: Scholes St 7 Bogart Sts, Messerole & Morgan Ave. TOWN: New York City
CITY: Brooklyn ZIP: 11206 COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 0.9 Acre

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME.....:
ADDRESS..:

SITE DESCRIPTION:
Location: The Scholes Street Holder Station is comprised of three parcels of land located in Brooklyn, New York, Kings County.

The site is bounded by Scholes Street, Bogart Street and Meserole Street.

Site Features: The main site features include several large warehouse and light manufacture buildings plus a small parking area.

Current Zoning/Use(s): The current land use for the parcels includes both commercial and industrial. The parcels are zoned M1-1, light manufacturing, commercial, community facility.

Historical Use(s): The gas holder and associated buildings operated at the site from at least 1907 until 1933.

Site Geology and Hydrology: The site is composed of unconsolidated clay, silt, sand, gravel overlying southward-dipping consolidated bedrock. Shallow groundwater flow believed to flow generally east, though urban variables may change this on-site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Pre-Remediation: The SC investigation set to begin in early 2012.

ASSESSMENT OF HEALTH PROBLEMS:
The NYSDOH will evaluate the potential for impacts to public health from exposure to site contaminants once sufficient information from the investigation of the site becomes available for review.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-	Soil-	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State-	Federal-
STATUS:	Negotiation in Progress-		Order Signed-	
REMEDIAL ACTION:	Proposed-	Under Design-	In Progress-	Completed-
NATURE OF ACTION:				

NO RCRA CORRECTIVE ACTION SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS

CERCLIS SUPERFUND SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 20 **CITY BARREL** **EPA Facility Id: NYD068298835**
421−429 MEEKER ST BROOKLYN, NY 11222 TT−Id: 240A−0001−368

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 198 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11222

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USEPA COMPREHENSIVE ENVIRONMENTAL RESPONSE
COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)

SITE INFORMATION

EPA−ID: NYD068298835 Site−ID: 0201593
Site Name: CITY BARREL
Site Street: 421−429 MEEKER ST
Site City/State/Zip: BROOKLYN, NY 11222

NFRAP (No Further Remedial Activity Planned) Status: NO FURTHER REMEDIAL ACTION PLANNED

USGS Hydrological Unit: 02030201 NPL Status Indicator: Not on the NPL
Incident Category: RCRA Flag:
Non−NPL Status: NFRAP Non−NPL Stat Date: 09/02/1987
Federal Facility Flag: Not a Federal Facility

OPERABLE UNIT INFORMATION

Operable Unit ID: 00 Operable Unit Name: SITEWIDE

ACTION INFORMATION

Name: Discovery Start Date: Operable Unit ID: 00
Lead: EPA Fund−Financed Completion Date: 04/25/1980

Qualifier:
Fin Budget Src:

Name: Preliminary Assessment
Lead: EPA Fund−Financed
Qualifier: NFRAP (No Futher Remedial Action Planned)
Start Date:
Completion Date: 09/02/1987
Fin Budget Src: Remedial
Operable Unit ID: 00

Name: Archive Site
Lead: EPA In−House
Qualifier:
Start Date:
Completion Date: 09/02/1987
Fin Budget Src:
Operable Unit ID: 00

FINANCIAL INFORMATION

No financial information was provided

NO BROWNFIELDS SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

NO SOLID WASTE FACILITIES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

NO HAZARDOUS WASTE TREATMENT/STORAGE/DISPOSERS IDENTIFIED WITHIN THE 1/2 MILE SEARCH RADIUS

HAZARDOUS MATERIAL SPILLS INTRODUCTION

The Hazardous Material Spills in this section are divided into eight spill cause groupings. These include:

Active Spills Section: Spills with incomplete paperwork that may or may not be cleaned up (See Date Cleanup Ceased)

1) Tank Failures
2) Tank Test Failures
3) Unknown Spill Cause or Other Spill Cause Hazardous Spills
4) Miscellanous Spill Causes: Equipment Failure, Human Error, Tank Overfill, Deliberate Spill, Traffic Accidents, Housekeeping, Abandoned Drum, Vandalism and Storms.

Closed Status Spills Section: Spills with completed paperwork that may or may not be cleaned up (See Date Cleanup Ceased)

5) Tank Failures
6) Tank Test Failures
7) Unknown Spill Cause or Other Spill Cause Hazardous Spills
8) Miscellanous Spill Causes: Equipment Failure, Human Error, Tank Overfill, Deliberate Spill, Traffic Accidents, Housekeeping, Abandoned Drum, Vandalism and Storms.

All spills within each spill cause category are presented in order of proximity to the subject site address.

Please note that spills reported within 0.25 mile (or one−eighth mile in New York City) are mapped and profiled.

Between 0.25 mile (or one−eighth mile in New York City) and 0.5 mile, only the following spills are mapped and profiled:

* Tank Failures;

* Tank Test Failures;

* Unknown Spill Cause or Other Spill Cause;

* Spills greater than 100 units of quantity; and

* Spills reported in the NYSDEC Fall 1998 MTBE Survey.

A table at the end of each section presents a listing of reported Miscellanous Spills with less than 100 units located between 0.25 mile (or one−eighth mile in Manhattan) and 0.5 mile. These spills are neither mapped nor profiled.

ACTIVE TANK FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 21 **ENGINE CO. 229 FDNY −DDC** **Spill Number: 9703488** **Close Date:**
76 RICHARDSON STREET BROOKLYN, NY TT−Id: 520A−0047−908

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 558 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: LT MOLINARO − ENGINE COMPANY 229
Spiller Phone:
Notifier Type: Other
Notifier Name: ROBERT COLLIN
Notifier Phone: (516) 499−1085
Caller Name: ROBERT COLLIN
Caller Agency: CHESNER ENGENEERING
Caller Phone: (516) 499−1085
DEC Investigator: ADZHITOM
Contact for more spill info: LT MOLINARO
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/20/1997		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DURING TANK CLOSURE − SOIL SAMPLE HAS BEEN TAKEN AND THEY RECIEVED

POSITIVE PID ON ONE SAMPLE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHITOMIRSKY"
TRANSFERRED FROM Y.KRIMGOLD.

8−3−2005 Reviewed report received by NYSDEC on June 13, 2005. The report stated that free product is present in wells MW−2 and MW−4. Petroleum absorbent socks have been replaced several times in both wells. Also, the report stated that in July 2001, laboratory analysis identified the product as kerosene. In addition, the report stated that the most likely off−site source is the upgradient neighboring property, which was known to have underground storage tanks. A letter was sent to DDC/URS to inform the City that at NYSDEC request, an investigation was performed at the neighboring property (Spill #0130048, 407 Leonard Street). The investigation results showed no signs of contamination and the spill report for that property was closed. Therefore, the Department requested that DDC/URS repeat the fingerprint analysis of the free product in wells MW−2 and MW−4, and investigate alternative sources for the free product contamination.AZ

9−28−2005 Staff received and reviewed a monitoring report from the City's contractor which stated that free product is present in several wells. The report suggested that the most likely off−site source is the up−gradient neighboring property, which has underground storage tanks. Staff responded that an investigation was performed, at DEC's request, at the neighboring property (Spill #0130048, 407 Leonard Street). The investigation results showed no signs of contamination and the spill report for that property was closed. Staff asked the City to repeat the petroleum fingerprint analysis to help determine the source of the product. This analysis indicated that the product is likely kerosene. Although kerosene tanks were never present at the site, NYFD has practice of mixing kerosene and diesel fuel. There is a diesel AST in the basement of the facility. Staff asked Jane Staten (URS)to investigate the possibility of leakage from the diesel AST into the subsurface through underground lines or other conveyances. AZ

9/26/2006 The site was transferred from URS to Greyhawk on January 1, 2006. In July 2006 Greyhawk reported that due to the lack of documentation from the previous CM, Roux performed a reconnaissance visit to the site. Eight of nine monitoring wells were located and gauged. MW−08 was probably destroyed during ongoing construction activities at the neighboring property. MW−04 continues to contain free product at 0.16'. Absorbent socks in wells MW−04 and MW−02 were replaced. AZ

12−07−2006 Staff received and reviewed a monitoring reports from Roux dated September 22 and November 20, 2006. November report states that Gw sampling was not conducted for April through June 2006 because Greyhawk mistakenly considered the spill closed. Free phase (kerosene) was detected in MW−02(0.03') and MW−04(0.23') during July−September quarterly monitoring event. MW−08 could not be located. Roux recommended reduce frequency of gw sampling and reporting from quarterly to semi−annual since dissolved phase remains only in MW−09, continue quarterly gaging of wells, continue using absorbent socks, conduct additional investigation to determine potential sources of kerosene product (work plan will be submitted to DEC), attempt to locate MW−08. DEC concurred. MW−08 should be located or replaced. AZ

12/22/2006 At the meeting with DDC/Greyhawk on 12/12/2006 DEC inquired about the remedial progress at this site. Greyhawk will advance a few borings to resolve this issue. They will submit a work plan. AZ

2/13/2007 An e−mail was sent to DEC/Roux: "Roux recommended reducing frequency of groundwater sampling to semi−annual at this site. Also, Roux proposed that well MW−08 should be located and sampled in their November 2006 Report. As far as I know, MW−8 has not been located. Well MW−8 should be located and sampled. When sampling results from MW−8 are submitted to DEC, frequency of groundwater sampling will be reviewed." AZ

2/14/2007 Telephone conversation with Brian Morrissey on 2/13/2007: Brian informed me that MW−8 was last sampled in 2002 and

exhibited 15 ppb of total VOC. This information was not included in Roux's quarterly report. Based on this information I approved Roux recommendation for semi−annual groundwater sampling. However, due to the presence of free product at this site, groundwater sampling schedule should be restored to quarterly if dissolved phase contamination appears in more wells. An e−mail was sent to Brian Morrissey (Roux). AZ

6/21/2007 Reviewed report for the site dated April 11, 2007, and received on April 26, 2007. Roux recommended conducting additional site investigation to determine potential sources of kerosene. They proposed collecting soil and gw samples from borings in the alley located between the firehouse building and the adjacent property's degreasing pit. No permanent wells were proposed. UST near Leonard Street belongs to what site? I left a message for B. Morrissey (Roux) asking clarification for the work plan. AZ

6/22/2007 Conversation with Brian Morrissey regarding the proposed Work Plan. I rejected the proposed Work Plan since it did not propose any permanent well installations. Also, I consider, that number of soil borings is excessive. Two wells should be installed in place of proposed boring RXSB07−RXSB09. Also, two wells should be installed between the degreasing pit and the potential site of previous USTs. MW−8 should be either located or re−installed. I requested information regarding diesel fill ports, gasoline fill ports and previous USTs depicted on the plan. Do they belong to the Fire Department or to the adjacent property? Roux will submit a revised work plan and the requested information. AZ

2/11/2008 An e−mail was sent to Roux/DDC/VB/Greyhawk: "I have reviewed Semi−Annual Monitoring Report for the above site submitted in November 2007. The report included the revised Work Plan. However, DEC comments were only partially taken into account. DEC requested installation of two wells between potential site of the previous USTs and the degreasing pit. These wells were not proposed by Roux. Also, DEC requested information regarding ownership of the diesel fill ports, gasoline fill ports and previous USTs depicted on the plan. This information has not been provided to DEC. These deficiencies should be corrected and modified Work Plan with the requested information submitted to DEC. AZ

2/12/2008 Conversation w/Brian Morrissey (Roux). Brian suggested installing two wells in the alleyway as the first step in the investigation. After these wells are installed and sampled, a decision will be made by DEC regarding installation of two additional off property wells at the adjacent property as per DEC's previous request. Also, Roux will provide DEC with the information regarding UST locations at EC 229 property and information regarding the ownership of the former USTs as well as diesel and gasoline fill ports in conjunction with the first stage of the investigation. AZ

10−31/2008 An e−mail was sent to Roux/DDC/Greyhawk/V.B.: "I have reviewed Semi−Annual Monitoring Report for the above site for the period of July 2007 to June 2008 and dated August 4, 2008. Based on the report, the additional site investigation, approved by DEC in February 2008, has not been performed. The submitted investigation plan is approved and should be performed without delay. After proposed wells/borings are installed, a decision will be made by DEC regarding installation of two additional off site wells at the adjacent property as per DEC's previous request. According to the PBS records, a 2,000 galllon fuel oil tank was closed in place at the site. A 550 gallon diesel tank is in active status at the site. Locations of these tanks and their fill ports should be indicated on the plan. Also, location of 275 gallon gasoline tank fill ports should be indicated on the plan." AZ

12−21−2009 Additional investigation work plan approved by DEC on February 11, 2008, February (ASIWP) has not been performed. According to Roux it will be performed by the incoming construction management firm. Intermittent kerosene product is observed in MW−4 and MW−02. An investigTION REQUESTED BY NYSDEC (Spill #0130048, 407 Leonard Street) DEC determined that product in MW−2 mnd MW−4 doesn't appear to be from this potential upgradient source. Roux will continue to use absorbent socks. AZ

8−25−2010 An e−mail was sent to LiRo S. Frank: "I have reviewed Site Turn−Over Status Report. Result of the additional investigation which was approved by DEC should be sent to the Department. Well MW−01 could be removed from the sampling program.Wells M−06 and MW−07 should be replaced." AZ

12−21−2010 An e−mail was sent to LiRo S. Frank, V. Brevdo, F. Ashkan: "Dear Steve,
I have reviewed semi−annual sampling/quarterly monitoring and additional investigation report for this site. The report proposed continuation of sampling and adding SVOC analysis to groundwater sampling protocol. Also, report suggested hot spot shallow excavation at boring RXSB−04. These proposals are approved.
LiRo recommended removal of wells MW−01 and MW−07 from the sampling program and reduction of gauging to semi−annual, since product has not been observed since 2008. These recommendations are approved.
The Responsible Party and Contractors are responsible for the safe execution of the Work Plan."

Elevated levels of soil and dissolved groundwater contamination exist at this site. A series of 11 injection wells were installed at the site. PermeOx slurry was injected in each well. Consultants submitted additional site investigation plan which has been approved by DEC. In June 2010 LiRo performed the revised Additional Revised Investigation Plan. Elevated PID readings and petroleum odor was noted in all seven borings mainly between 5 and 15 ft. bgs.VOC and SVOC concentrations exceeded TAGM soil guidance. Contamination is present just above and at the groundwater table interface. LiRo recommended conducting hot spot shallow excavation to remove VOCs in soil. DEC approved this recommendation. AZ

6−28−2011 Reviewed report for the site dated March 31, 2011. Soil samples collected indicate shallow SVOC contamination above and at groundwater table. Soil below gw table do not indicate contamination. LiRo proposed to conduct hot spot excavation at boring RXSB−04 and DEC approved it in December 2010. Free phase product was detected in RXMW−01 (0.01') and MW−04 (0.22') in November 2010. The product was identified as gasoline. Due to the presence of free phase, quarterly gauging will be conducted. Monthly vacuum truck extraction in wells MW−02, MW04, and RXMW−01 will be conducted for a period of 3 months. AZ

1−9−2012 Reviewed semi−annual report dated October 5, 2011. The shallow ho spot excavation approved by DEC on Dec. 21, 2010 in the vicinity of boring RXSB−04 is scheduled for completion in Fall/Winter 2011. The following email was sent to S. Frank/ F. Ashkan and V. Brevdo:
"Dear Steve,
I have reviewed semi−annual/quarterly report for February− September 2011 and dated October 2011. The report stated that measurable product was detected in MW−04 and was ranging from 0.01 to 0.03 feet. Currently petroleum absorbent socks are in three wells.

LiRo proposed reducing groundwater sampling from semi−annual to annual. Due to the presence of free phase product this proposal is rejected. Sampling should be performed semi−annually. Also, LiRo proposed to remove several monitoring wells from the site monitoring program. The site is monitored only twice a year. The wells proposed for removal exhibited VOC contaminants in the past and located in important monitoring locations. Therefore, these wells should be monitored.

LiRo proposed suspending SVOC analysis. This proposal is approved." AZ

12−6−2012 Reviewed semi−annual monitoring report dated June 26, 2012. The report stated that elevated VOCs above RSCO were detected in boring RXSB−04 from 5' to 6'. Free phase product is intermittently reported in wells MW−02,MW−04,RXMW−02. Product removal has been accomplished by both EFR and absorbent socks. LiRo will submit an excavation bid package for excavation in the

vicinity of boring RXSB−04 in the third quarter of 2012. AZ

ACTIVE TANK TEST FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 22 **MOBIL S/S #17−FX9** **Spill Number: 9007766** **Close Date:**
550 HUMBOLDT STREET BROOKLYN, NY TT−Id: 520A−0051−765

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 996 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: MELISSA TACCHINO − EXXONMOBIL OIL CORP
Spiller Phone: (908) 730−3610
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: SCOTT GOTTSCHALL
Caller Agency: MOBIL OIL
Caller Phone: (703) 849−5319
DEC Investigator: MJHAGGER
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/16/1990		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL, GROUNDWATER
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

LINE TEST ONLY, PETRO TITE, LEAK RATE −.011GPH, WILL EXCAVATE, REPAIR & RETEST (REPAIRS BY ALVIN PETROLEUM).

DEC Investigator Remarks:

Spill remediation is being tracked under spill no. 90−07766. See also spill nos. 05−08671 and 07−10898.

11/6/2000: Reassigned from Sullivan to Sigona. PBS records indicate that 14 x 550−gallon, 1 x 4,000−gallon and 1 x 1,000−gallon USTs were either closed in−place or removed from this site. (Sigona)

12/12/2003: Reassigned from Roberts to Harrington (central office) for management. (Rommel)

5/6/2005: Sent letter to Exxon Mobil approving off−site RI work plan. (Harrington)

7/18/2005: Sent letter to Exxon Mobil approving revised RAP. EFR events @ MW−3 and MW−4 will be conducted semi−annually. FS to address dissolved BTEX @ MW−3 will be submitted along with off−site RI report. (Harrington)

10/7/2005: Sent e−mail to Exxon Mobil approving the sensitive receptor survey. (Harrington)

11/28/2005: Sent Exxon Mobil letters approving the SI report and the supplemental SI work plan for the off−site plume delineation. Additional work was required due to the discovery of free product west of McGuinness Boulevard. (Harrington)

7/31/2006: Approved supplemental SI report. Monthly EFR events will now be conducted at wells MW−3, MW−4, MW−11, MW−12, and MW−15A. Work plan for recovery well installation near MW−15 is expected in October. (Harrington)

10/14/2006: Sent an e−mail to Exxon Mobil approving the SI work plan. Plan calls for the installation of six (6) monitoring wells along the west side of McGuinness Boulevard between Bayard and Newton Streets in order to fully delineate and recover the free product observed in this area. (Harrington)

3/2/2007: Sent e−mail to Exxon Mobil approving the UST divestiture and excavation work plan. EM will be removing all USTs, distribution lines, vent lines, hydraulic lifts, and contaminated soil identified during this effort. (Harrington)

4/20/2007: Sent e−mail to Exxon Mobil approving the SI report which documented the off−site work completed along McGuiness Boulevard in support of LPH recovery efforts. (Harrington)

6/22/2007: PM visited the site along with Kleinfelder personnel. Excavation work has been completed. Report expected in the Fall. (Harrington)

10/29/2007: Sent e−mail to Exxon Mobil approving the Tank Excavation Assessment Report. The revised RAP will be submitted in mid−December. (Harrington)

12/4/2007: PM approved the feasibility testing work plan during a site visit with Kleinfelder personnel. SVE/AS and chem−ox injection technologies will be evaluated. (Harrington)

12/13/2007: PM conducted a site visit during monitoring well installation as part of the recently−approved FS work plan. Field

work began on December 10th. (Harrington)

1/15/2008: Kleinfelder encountered LPH in a newly−installed monitoring well on−site during pilot testing efforts. Kleinfelder personnel contacted the PM, who instructed them to call it in as a spill. The spill number (07−10898) was administratively closed by Region 2 personnel. (Harrington)

5/1/2008: PM sent an e−mail to Exxon Mobil approving the off−site subsurface investigation work plan. This effort will begin to fully delineate the free−product plume west of McGuinness Boulevard. (Harrington)

5/6/2008: PM conducted a site meeting with Exxon Mobil's consultant (Kleinfelder East, Inc.). During the meeting, the PM approved the IRM work plan, which calls for excavation of soils in the area of the former dispenser islands. Given that this area is adjacent to McGuinness Boulevard, sheeting and shoring will be required. (Harrington)

6/24/2008: PM conducted a site visit with Exxon Mobil personnel (Drake) and their consultant (Kleinfelder) in order to discuss recent developments. Apparently, Exxon Mobil has been denied further access to the site by the owner thus delaying implementation of the IRM. Additional off−site investigation will be required due to the continued presence of LPH along McGuinness Boulevard. This will involve well installation further west along Newton Street. (Harrington)

9/7/2008: PM sent an e−mail to Exxon Mobil approving the updated version of the IRM work plan. Work plan calls for additional excavation of petroleum−contaminated soils on−site and post−excavation sampling. Work is scheduled to begin on September 15th. (Harrington)

4/3/09 − Haggerty: approved Excavation Report. With this excavation, over 7000 tons of contaminated soil has been removed from the site. My comments were as follows:

1. A "No Further Action" letter can not be granted for just the on−site soils. If the replacement monitoring wells are installed and groundwater meets with DEC approval, a "No Further Action" letter will be issued for the spill 90−07766 and I will re−open spill 05−08671 for the off−site contamination.

2. Resend the Off−Site Investigation Work Plan under a separate cover. Dave Harrington disregarded the 8/29/08 RRAP and therefore I have not been able to review the work plan contained therein. After I have approved it, I will forward the DOT sidewalk permit letter.

3. I have spoken with the Developer's consultant. The Developer's consultant, George Kavrakis, states the layout of the station has been approved and is not subject to change. Therefore, proceed with the installation of the on−site replacement wells within the next 60 days. I also informed him that if the monitoring wells are damaged during the construction of the new station, it will be their responsibility to re−install them. I have attached the site plan for the new station which appears to match the layout provided in your report.

4. I spoke with the BEST Squad Demolition Supervisor who was holding up the redevelopment at the property and wrote him a letter (attached) requesting he allow redevelopment to begin. Once he receives the letter, he states construction can proceed. According to George Kavrakis, once they receive permission from the BEST Squad, construction will begin. Please coordinate with Mr. Kavrakis (516 298 2355)

6/19/09 − Haggerty: had conference call with Ken Drake (ExxonMobil) and Kleinfelder. New station under construction and will not be completed for the next month. Installation of on−site and off−site MW's will be completed at the same time once construction of the new station is complete.

June 2010 − required additional delineation of MTBE plume

August 2010 − received Supplemental Subsurface Investigation Work Plan. Under review

11−4−10 − Austin − Had a discussion with Sally Dewes of DEC/Albany − Sampling at this site recently yielded the discovery of ethanol, indicating that there may be a new release on this site − we agreed that this would be called in as a new spill report, for investigation by Region 2 Spills − end

March 2011 − reviewed SIR and sent comment email requiring work plan to remediate off−site LPH. EFR events over the past 3 years have not reduced LPH thickness

May 2011 − Work plan overdue

June 2011 − approved plan to increase efficiency of LPH removal using HIT events. Also, the new owner had a Spill called in under the his name due to ethanol detections

November 2011 − Feasibility Report due in December

December 2011 − Feasibility Report under review

January 2012 − using VER events. percent level vapors were being collected. Considering this is ~200ft for the site, it appears a plume of product has broken off for the source. Remedial alternatives being evaluated

March 2012 − met with new Project Manager, Heather Cloud, from GES and discussed project. A plume of free product has broken off from the site and is slowly moving across Humboldt. We discussed the fact that the plume will be persistant for years. She requested 2 months to meet internally as to the next step. I told to look for a possible locations for a SVE system shed in the adjacent properties

May 2012 − nothing substantive regarding a solution has been proposed. Conference call required

June 2012 − approved EMs soil boring/sampling work plan along McGuiness where the product has been consistant for years

December 2012 − GES proposed excavating the sidewalk on McGuiness Blvd into the groundwater to remove the product beneath it. EM fully excavated the station and the remaining contamination has detached from the original site. This site requires more thought. Even if they did excavate the sidewalk which a don't believe the DOT would allow, more product will migrate below the sidewalk due to the groundwater flow direction

Map Identification Number 23 **COMMERCIAL PROPERTY TTF** **Spill Number: 1206982** **Close Date:**
498 LEONARD ST BROOKLYN, NY TT−Id: 520A−0277−969

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1253 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: COMMERCIAL PROPERTY
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: TJDEMEO
Contact for more spill info: JEFF MCKENZIE
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/16/2012		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

5000 gal ust

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

ACTIVE UNKNOWN CAUSE SPILLS AND OTHER CAUSE SPILLS IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 24 **SUNOCO SERVICE STATION** **Spill Number: 1011266** **Close Date:**
550 HUMBOLDT ST BROOKLYN, NY TT−Id: 520A−0260−410

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 988 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Other
Caller Name:
DEC Investigator: RVKETANI

Spiller: SUNOCO SERVICE STATION
Notifier Name:
Caller Agency:
Contact for more spill info: VIKI CRETEUR

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/09/2011		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

test data show NEW release/9007766

DEC Investigator Remarks:

This is a new spill at the site of an old ongoing spill case. A newly called in spill number usually means there is a new owner/operator. The old owner is cleaning up the old case and does not want to be held responsible for the new spill. Cross Ref Spill #9007766. Call Kleinfelder to determine why this is a new spill and what is being done to clean it up.

3/11/11−Called Kleinfelder and left a message to the operator to call back.

Case Manager: Viki Creteur (631 281 0612 Ext 220)

10/27/11 − Austin − Transferring this case from Ahmed to Ketani − end

Map Identification Number 25 **JOHN HULEY** **Spill Number: 1205075** **Close Date:**
498 LEONARD ST BROOKLYN, NY TT−Id: 520A−0275−745

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1245 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: EZGY KARAYEL − JOHN HULEY
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: TJDEMEO
Contact for more spill info: EZGY KARAYEL
Contact Person Phone: 7186360800

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/20/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

tank is in place, soil samples confirm contamination

DEC Investigator Remarks:

Sangesland spoke to Ezgy (As−Gee). (See eDocs for Phase 2 Report) She said the property is a 2 story industrial building being sold to a developer who will tear it down for a new residential building. City has placed an "e−designation" on the property because it's changing from industrial to residential. Problem is associated with leaking from a 5,000 gal buried oil tank.
Hydro Tech was hired by the potential buyer and found contamination. Hydro Tech will continue to work on the site and come up with a plan to solve the spill problems and close them out.

Map Identification Number 26 **N 11TH STREET SIDEWALK** **Spill Number: 0750535** **Close Date:**
204−214 NORTH 11TH ST BROOKLYN, NY 11211 TT−Id: 520A−0049−156
MCCAREN MEWS

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1810 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name:
DEC Investigator: SFRAHMAN

Spiller:
Notifier Name:
Caller Agency:
Contact for more spill info:

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/02/2007		UNKNOWN	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

P.W Grosser installed six monitoring wells as part of oil seepage investigation.Free product was encountered in one of the wells on N 11th street,unsure where it is coming from.Other wells were free of petroleum contamination.

DEC Investigator Remarks:

07/10/07 As per discussion with RSE and Jeff Vought of DEC, this new spill case has been created to open a PIN project and perform investigation by a state funded contractor.(SR)
07/16/07 I met with National Environmental at the site and explained the site's current situation to Bruce Beck, handed him over previous investigation data.National Env. will pprepare a new investigation work plan,will be executed after DEC's approval.(SR)

07/17/07−Vought−Meeting held with DEC Nagi, DEC Austin, DEC Brevdo, DEC Sun, DEC Vought, DEC Karwiel and DEC Cruden to request permission to use non−lowest bidder contractor due to prior performance issues with National and high visibility of site to surrounding public. Permission granted to use second highest bidder (Envirotrac) by DEC Albany and DEC Nagi.
07/20/07 Site meeting on 07/23/07 at 11:00 AM with Envirotrac. Jeff vought will attend the meeting on behalf of DEC.

07/23/07−Vought−As per DEC Austin, DEC requires: 1)delineation via installation of semi−circle of monitoring wells around MW1 including one well in street and two in sidewalk 2)groundwater monitoring and sampling from all onsite and offsite wells. Site visit with EnviroTrac (Dave Lorthior) and Vought provided copies of all previous reports on CD, copies of spill report, contractor work authorization form, site plan and discussed scope of work. On site is six story building under construction will

full scaffolding along N. 11th Street. To perform scope of work, contractor must both get a sidewalk permit and a street opening permit. Note that gas line may be immediately adjacent to curb and water and or sewer run down N. 11th Street. Vought discussed scope of work with Austin who required that markouts be performed and Schwatz be contacted with respect to date of scaffold removal. Vought called PW Grosser (Kris Almskog 631−589−6353) and left message to return call. Once schedule of scaffolding is determined , notification will be made to EnviroTrac for markouts to ensure that they are valid.

To consider: Sampling at the the former UST location was never considered and never reported. Furthermore the location of the fill line and the supply return lines to the boiler were never known and no tightness testing or information is available in the file. Project manager may want to consider investigation on sidewalk adjacent to tank at most likely location of former fill line. Project manager may want to consider submission of documentation of soil sampling during UST removal and tightness testing data and former fill line location.

07/31/07−Vought−As per DEC Austin, DEC requires: 1)delineation via installation of semi−circle of monitoring wells around MW1 including one well in street and two in sidewalk 2)groundwater monitoring and sampling from all onsite and offsite wells. Vought also will: 1)send notification to PW Grosser for collection of split samples and or witness to boring 4)Send email to envirotrac with scope request notification with status of street opening permit. Vought spoke with DEC Austin and as per Austin if wells show product then further delineation will be performed in second phase. Vought sent email to Envirotrac with requirements and also cc'd PW Grosser (Almskog).

08/1/07−Vought−Called:

Issac Schwartz
Cell(917) 282−6071
office:(718)218−8330

Dave Yudelson (Sive Paget)
Cell (917)295−6449
Office: (212)421−2150
D.Yudelson@sprlaw.com

Kris Almskog
Office: (631)589−6353
KrisA@pwgrosser.com

Vought sent email to above, DEC Austin and Envirotrac Lorthior requesting Lorthior to submit possible drilling dates after investigation into sidewalk permit, street opening permit and markouts.
8/013/07 Rec'd email from Envirotrac(Tom Bosshard).DOT permit for well installation is delayed due to a bonding issue with the NYC DOT.Envirotrac also looking into subcontracting the permit expediting service to another company that may already have DOT bond approval.As per request, I wrote a letter to DOT requesting to expedite the permit process.(SR)
08/30/07 I spoke with Frank Jiran of Envirotrac regarding the DOT permit.The original project manager Dave Lorthior is on vacation.The tentative date for well installation was set for September 5th,07, provided that the permit will be secured by this time.As of now, the permit is not available yet.(sr)

09/05/07 Well installation took place today.DEC Jeff Vought and Sharif Rahman were present at the time of well installation.Two

wells were installed on side walk,on both sides of existing MW that collecting oil in it.Two soil samples, one at 5−7’ and other one at 7−9’ were collected for analysis.At 9−11’ free product was encountered.Monitoring well on street could not be installed due to presence of utility lines closely located to each other.PW Grosser rep Richel also took soil sample, on behalf of the developer(sr).

09/12/07 As per RSE’s recommendation one well was installed on N.11th street as part of oil source investigation.According to EnviroTrac project manager Dave Lorthior, no soil contamination observed above water table.Gross contamination was found at 1.5’ below water table beneath the clay layer.One boring was advanced at approximately 14’ east of MW−1, got refusal at 7’.Gross soil contamination observed at 6−7’.Samples wers taken for analysis.PW Grosser rep also collected sample from this one.I left the site at that point, Envirotrac will do more on the side walk today and Friday, 14th.I called Kris Almskog of PW Grosser and requested him to send DEC the photographs of the site at different stages of soil excavation taken from different area of the site including the UST location.(sr)

09/27/07 Two new wells and two soil borings near the existing wells were advanced on north side N 11th street today.Gross contamination observed below water table between 10−15 ft.(SR)

03/07/08 Department’s letter requiring aggresive contamination removal from underneath the sidewalk went out to P.W.Grosser Consulting on 02/12/08.The letter asked to perform removal of contaminated soil and free product from underneath the side walk by excavating, as technically practical and feasible.Letter was approved by RSE and DLA.We had a meeting with DEC Vought, RSE Mr. Austin, John Urda and DEC sharif Rahman in RSE’s office and discussed P.W Grosser’s response regarding their proposal to VEFR the wells only, instead of excavation and removal of gross contamination underneath the sidewalk.RSE Mr. Austin opinioned that due to poor transmitivity of the oil, quantity of accumulation to the wells is also nonsignificant. Therefore, without excavtion,VEFR will not work well to recover free product from underneath the sidewalk. RSE recommended to contact Key Span Energy to study feasibility of excavation near their gas main to remove contamination.A meeting with property owner’s consultant, counsel was scheduled on 03/13/08 at DEC office to discuss about remedial strategy.(sr)

03/17/08 A meeting was held on 03/13/08 at DEC region 2 office with P.W. Grosser(Kris Almskog),Proper owner Issac Swartz and Mr. Firetog.On DEC side− John Urda, Randall Austin,Jeff Vought and Sharif Rahman.DEC explained that due to the fact that ground water flow direction is from the site to the north and an UST that had oil in it with strong evidence of oil release to the ground, the site 204 N 11th Street is the most potential source of this oil contamination and there was no other source found.It was decided that PW Grosser will prepare revised work plan to excavate and remove contamination from the sidewalk after consulting and keeping KeySpan in the loop.KeySpan has to be notified and clearance is needed from them in order to excavate near gas line.KeySpan Energy’s contact info was given to P.W. Grosser.As per RP’s request to close out this spill, DEC decided to close Spill 0750535 after the cost of investigation is paid by Mccarren Park Mews.Issac Swartz agreed to pay the bill for investigation done by Envirotract.Total cost of the investigation was provided to John Urda for dispatching to McCarren Mews.It was also discussed to analyze ground water quality once excavation and removal of gross contamination is completed.
(sr)

05/27/08 I called Dave Lorhtior(EnviroTrack) and requested him again to send DEC a confirmation letter when the bill for PIN job is paid by McCaren Park Mews so that I can request DEC central office to take off the PIN number and spill 0605974 can be closed as per the stipulation agrement.Spill#0750535 will remain open until the remedial work is completed as per the Corrective Action Plan(CAP).(sr)

06/02/08 I spoke with Envirotract’s project manager Dave Lorthior regarding the bills, he said they have been paid and he would

send us the confirmation by today. Erin Gaus from Test America(Lab) also told me the same.Once we receive the confirmation letter, this spill case will be closed.I contacted with Kris Almskog of P.W. Grosser to get the update on the sidewalk excavation job.As per Kris, A.B. Environmental was hired to perform the work, application for side work permit has been submitted to NYC DOT.Kris also indicated that as part of IRM, wells will be monitored today.(sr)

06/06/08 Rec'd letter/e−mail from Envirotract and Test America confirming that the invoices were paid in full and there is no other bill unpaid associated with spill#0750535/PIN 04394. As per Stipulation agreement,R2−20080502−236 and consent from RSE and DLA(John Urda), spill#0605974 is closed.
** Additional remedial activities will be carried out under Spill#0750535** (sr)

** 06/18/08 I stopped by the site and observed some soil excavation taking place at the south west side proposed parking lot area, soil has black stain and it has odor.I suggested to take soil samples from the bottom of the excavation in a agrid pattern and perform air monitoring today and after. P.W Grosser(Chris Almskog)sending crew to take samples today, as per our conversation today.I also suggested Isaac Swartz to cover the stockpiled soil in order to prevent the odor from spreading.Chris Almskpg indicated that they are working with Keyspan and Contractor A.B. Environmental to schedule the excavation and removal of contaminated soil from under N 11th street sidewalk.(sr)**

06/23/08 I responded to the site with DEC Hasan Ahmed.P.W.G.C rep Jennifer Lewis, AB Environmental, National Grid(KeySpan) rep Douglas Laregina were present at the site.AB Environmental started excavation at MW−1 location.With Keyspan's approval the excavation dimension was approx 9'deep,2'wide and 4' long along N 11th Street.Free product found in the excavation hole that was sucked out by A.B Environmental.Excavation will be back filled today as there is safety issues involved, but will be reopened for more excavation and installation of recovery well.I told PWGC and Issac Swartz that actual dimension of the excavation for efficient and safe recovery of the soil/oil contamination must be determined by a licensed Professional Engineer as per DEC's letter Feb 12'2008.MW−11 was checked for product by a stick and free product was found.MW−12 and MW−4 are also the potential location for free oil contamination.(sr)

06/26/2008−Hasan Ahmed−DEC Ahmed and Vought went to the site. Kevin Waters from PWGC , AB Environmental, a representative from National Grid(KeySpan) were present at the site. AB Environmental started excavation at MW−12 location.With Keyspan's approval the excavation dimension was approx 7.5 ft deep,2' wide and 5' long along N 11th Street. Free product was noticed in the excavation that was vacuumed out by A.B Environmental. Excavation would be back filled today. PWGC would replace the existing MW12 with a 6" recovery well. Pictures were taken of excavation and free product in groundwater.

06/30/08 I spoke with Chris Almskog today and asked him the status of the excavation.Chris indicated that PWGC and A.B. environmental went there on 06/26/08 and 06/27/08 an dexcavation to other places took place with supervision of a licensed professional engineer, in order to determine the extent of excavation without compromising the existing utility lines.Chris also indicated that PID monitoring was done while excavation and removal of contamination going on to identify air quality deterioration.I told Chris Almskog to take end point samples before backfilling, as I was told to do by RSE.I also asked about additional excavation near MW 1, most contaminated area on N 11th−Chris said that he would check it with A.B. Environmental and get back to DEC with written explanation from a P.E if additional excavation was not possible due to structural/utility issues.(sr)

07/03/08−Vought−Site visit by Vought as per DEC Austin. Site backfilled and crew onsite placing rebar for foundation and concrete pouring. No observable soil contamination via olfactory and visual however soil also was also very uncsolidated suggesting fresh backfill. No odors emanating from site. Noted beginning demolition of adjacent site at 320 Roebling.

08/28/08 Rec'd side walk excavation report from P.W. Grosser.Due to the presence of two high pressure gas main beneath the sidewalk,a KeySpan/National Grid rep was on site and provided guidance during all soil disturbances.Soil in the vicinity of MW 1, MW 4, MW 11, MW 12 were removed utilizing Guzzler Truck down to approx. one to two ft below the water table. Free floating product was also removed from the excavation area.Excavation limits were determined based on field observations and limitation imposed by onsite National Grid rep based on the buried gas main.On 06/23/08 excavation around MW 1 began and continued on 06/26/08 to the west of MW 1.Upon excavation of soil below ground water,LNAPL was observed and removed four times using a pump truck to skim the surface of the ground water.A 6" monitoring well was installed to the west the that area .Excavation near MW 12 was approx. 7X3' and 9ft deep, followed by 6" monitoring well installation.Excavation near MW 11 was 8X3' and near MW 4 was 5x2.5 ft.MW was installed after each excavation.Bi monthly monitoring of the wells will continue untill no measurable product is identified for three consecutive monitoring events in each individual wells.Product will be removed utilizing hand bailers and absorbent pads as needed.Quartely status report will be sent to DEC.(sr)

09/24/08 I was at the site this morning when P.W.Grosser rep monitoring the wells. MW−1 had 3" of free product.MW−7/MW−8 did not have any product in it. I left the scene while P.W. Grosser rep performing the measurerent of the other wells.(sr)

12/12/08 3rd quarterly report rece'd on 11/22/08.MW 15,RW−12, MW−1,MW−11 showed presence of free product(0.01ft−0.20ft). Product thickness decreased to some extent. I called PW Grosser and recommended to develop the wells for greater recovery of the product. I also asked for recent data table for the well monitoring result.(sr)
** Next quarterly report will be available in February'09**

01/13/09 Rec'd email from P.W Grosser(Kris Almskog)indicating diminishing trend of free product in MW−1(0.01' on 01/09/09)and RW−12(0.08' on 01/09/09).A total of 13 gallons product has been removed this month.(sr)

02/26/09 Spoke with Kris Almskog and told him that aggresive recovery has to be performed at this point via developing wells and VEFR.Kris Almskog will talk to the property owner and let DEC know about his response.(sr)

05/07/09 Spoke with Issac Swartz and asked him to perform the product recovery in our presence by a health and safety trained crew and the waste has to be disposed properly.I also asked him to develop the well on order for better recovery of the product from wells.(sr)

08/04/09 P.W Grosser no longer represents 204 N 11th owner, and has not been doing any remediation work due to non payment. I spoke with Issac Swartz this morning and he told me that the bank(lender) may take over the property, in that case bank will be responsible to carry out the remedial activities. Mr Swartz will let us know about the bank's decision soon.(sr).

02/03/10 Mccaren Park Mews LLC owns the property now(Capital One Bank did not take over).Mr. Schwartz told me few days ago,P.W. Grosser will be rehired to continue the remedial works.Spoke with Kris Almskog(P.W. Grosser)this morning, P.W. sent a proposal to MacCaren Mews with scope of remedial work, waiting for approval.Left a messege for Mr. Schwartz asking the status of the proposal.(sr)

02/23/10 MW monitoring took place on 02/19/10 morning by P.W Grosser.(sr)

05/20/10 PW Grosser no longer representing McCarren Mews LLC. Left messege for Mr. Issac Swartz asking the status of the wells.Recent monitoring data from 04/02/10 showed RW−12(0.16 ft), MW−1(0.02 ft)product.(sr)

03/04/11 Rec'd monthly Well gauging and product recovery data for October 2010 to December 2010.During the fourth quarter of 2010, measurable product was found in wells MW−1, MW−8, MW−13, RW−11 and RW−12.Approx 5 gallons of product have been recovered during the fourth quarter of 2010.(sr)

Map Identification Number 27 **MOBIL** **Spill Number: 8908110** **Close Date:**
51 KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0044−672

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1825 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: SUNOCO S/S − BKLN−A
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name: MR KENNY
Caller Agency: NYFD
Caller Phone: (718) 389−2491
DEC Investigator: MJHAGGER
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/15/1989		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

DURING EXCAVATION OF TANK CONTAMINATED SOIL DISCOVERED IN PITS − PUMP−ING CONTAMINATED SOIL & WATER OUT OF PIT INTO STREETS − DEP RESPONDED & FOUND ONLY CONTAMINATED SOIL & SLIGHT SHEEN IN TRENCH.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"

12/10/2003 Reassigned from Tipple to Sun.

11/7/05: Project reassigned from Sun to Andersen. Sent letter saying investigation was required by 1/2/06.

12/6/05: Letter returned to sender, unclaimed. USPS wrote the address 159−59 78th street on the letter, instead of the address I sent it to: Donato Passerella 159 78th Street, Queens, NY 11414.

1/23/06: Resent letter to 57 Kingsland Realty Corp., 57 Kingsland Avenue, Brooklyn, NY 11211 Attn: Hussein Mustafa, as per the current owner on Property Shark.

2/3/06: An attorney for Mr. Mustafa called. She said that 51−57 Kingsland is owned by Mr. Mustafa and that 61−65 Kingsland is owned by Denato Passarella, and that the gas station is on 61−65 Kingsland. She will fax me a letter confirming this from the Department of Finance. Need to resend letter to Denato Passarella at 61−65 Kingsland. Changed address on spill report to 65 Kingsland Avenue.

2/9/06: Letter was returned. Resent letter to:

Donato Passarella
Kingsland Service Station
51 Kingsland Avenue
Brooklyn, NY 11211

2/13/06: Spoke to John Passarella (related to Denato Passarella) (718−389−6133). He said the correct address is 51 Kingsland Avenue. Changed address on spill report back to 51 kingsland. He said that Mobil owned the tanks at that time, but that he owns the property and the gas station. All old tanks were removed and new tanks installed in 1990. John Passarella will ask the old owner if they have and documentation of the tank closures.

4/5/06: ExxonMobil contact: Melissa Tacchino, 908−730−3610, melissa.w.tacchino@exxonmobil.com. Called Melissa Tacchino and left her a message. She called back and said that EM has never operated or owned this property.

4/13/06: Spoke with John Passarella and he confirmed that Mobil owned the tanks in 1989 and were in charge of the tank excavation.

7/26/06: Refered to NYSDEC Legal Department.

4/28/08 − Carlson: Spoke to John Passarella (718−389−6133). They received a letter from the legal division. They requested a 60 day extension to investigate this spill.

12/23/09 − Carlson: Received investigation work plan from ExxonMobil, dated 12/7/09. Six borings/monitoring wells proposed. Issued approval letter.

Ken Drake
ExxonMobil Environmental Services

U S Retail Remediation Project Manager
297 Route 72 W
Suite 35, #285
Manahawkin, NJ 08050−2890
kenneth.j.drake@exxonmobil.com

5/25/2010 − Carlson: Performed site visit. They were hand clearing boreholes. Boreholes will be completed as wells starting tomorrow (three days expected).

5/27/2010 − Carlson: Spoke to Joel Adrian. Product found in one of new wells. Product will be fingerprinted and tested for ethanol. If it is new product a new spill will be called in.

9/9/2010 − Carlson: Received phone call. 2 ft of product present. Product will be ID'd again.

9/15/2010 − Carlson: Spill No. 00−02006 consolidated with 89−08110. Reveiwed Subsurface Investigation Report. Six monitoring wells installed. Product present in three wells. Product ID'd as weathered gasoline. Legal Division is negotiating a consent order. Case may be referred to central office.

11/2/10 − EM did foil and complained they did not receive TTT reports. Station is delinquent since January, yet TTT may not be required. I can not tell from registration, which has omissions and questionable entries. Moses found registration deficiencies during recent PBS inspection and told Donato to correct them pronto. There is even uncertainty over the correct street address for the station (see the beginning of these notes). Moses would know if the station has a Veeder−Root doing LD on dw UST and dw pipes. (Breen)

3/2/11 − Haggerty: assumed project management from Andre Obligado

March 2011 − Spoke with EM, they agreed to perform SI. Work Plan approved

April 2011: Kleinfelder still working on Access Agreement with property owner

May 2011 − Owner reluctant to sign Access Agreement. He called me because he states that shutting down his station for 6 days would do irreparable financial damage. I explained that if he doesn't allow EM on the property to perform the investigation, the state will be forced to. The off−site MW's will be installed in June

June 2011 − no resolution between the owner and EM has been reached concerning access to perform the work

August 2011 − according to both the station owner, John Passeralla (347−610−3088) and EM, settlement for lost business is close and access should be granted soon

November 2011 − Access Agreement signed between owner and EM.

December 2011 − 6 new MW's installed on−site

February 2012 − SIR for the on−site investigation due in mid March. Product encountered on−site. EM sent out Vac truck

April 2012 − reviewed and commented on SIR for on−site well installation. The Deptartments position is that EM is responsible for the gasoline contamination and the current owner is responsible for the diesel contamination. John Urda is pursuing a CO with EM

June 2012 − PM required monthly Dual−Phase extraction events until a RAP is submitted.

August 2012 − EM fingerprinting report under review. Left message with Attorney, John Urda. The report implies EM is partly responsible but also states that the gasoline the owner is selling contains MTBE and is breaking the law

December 2012 − A RAP was submitted which includes pilot testing to determine the best method. Also spoke with Julie de la Fuente at Kleinfelder. She states that EM is considering excavation as long as the owner would agree. They asked for 30 days to submit the CAP and the extension was approved 12/26/12

Map Identification Number 28 **COMMERCIAL PROPERTY** **Spill Number: 0703695** **Close Date:**
454 DRIGGS AVE BROOKLYN, NY TT−Id: 520A−0038−156

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1930 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: DAVE YUDELSON − COMMERCIAL PROPERTY Spiller Phone: (212) 421−2150
Notifier Type: Local Agency Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: vszhune Contact for more spill info: DAVE YUDELSON Contact Person Phone: (212) 421−2150

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/29/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

RAPHAEL KATENI FROM DEC REGION 2 OBSEVED TANKS BEING REMOVED SEVERAL MONTHS AGO WITH NO PROBLEMS, RECENT SOIL SAMPLES SUGGEST

CONTAMINATION: RAPHAEL KATENI WAS ADVISED ROUGHLY 1/2 HOUR AGO:

DEC Investigator Remarks:

6/29/07 − Raphael Ketani. The site is at the corner of 12 Street and Driggs Avenue in Brooklyn. It is a vacant lot that had 2 tanks in a vault. The tanks were pulled many months ago and contaminated soil was found. Otherwise, there are no other significant issues with the site.

The PBS registration is for 432 Driggs Avenue (one of the alternate addresses). The PBS is #2−282464. A 3000 gal. tank with #2 oil was closed in place on 12/1/69. (I had thought I saw 2 tanks during my site visit months ago.)

The site is block and lot 02291 and 0017. The owners are 432 Driggs Avenue Corp., 432 Driggs Avenue, Brklyn, 11211−1116. Other listed owners are Edward H. Freiberger, 9 Prospect Park West, Brklyn., 11215, and Gary R. Goldberg, 11 Woodlawn Avenue, Great Neck, NY, 11023.

The attorney for the owners is Dave Yudelson (212) 421−2150/cell (917) 295−6449 at Sive Paget & Riesel, P.C., 460 Park Avenue, NY, 10022−1906.

7/16/07 − Raphael Ketani. Mr. Yudelson called me. Soil samples were taken in the vault area and they came back with oil contamination. He said that the parking lot has the tank vault area amd it will be dug up, and end−point samples taken. I told him I wanted to see the site when everything is dug up and fresh soil is exposed. He said that there is a small building adjacent to the site and this will also be knocked down. He added that I will be called to see the site once the soil and building are removed.

10/2/07 − Raphael Ketani. I tried to contact Mr. Yudelson, but could only leave a message.

10/3/07 − Raphael Ketani. I received an e−mail from Mr. Yudelson stating that DEP just gave permission to do the digging and that he will let me know when they will start.

11/28/07 − Raphael Ketani. I tried to contact Mr. Yudelson, but could only leave a message.

Mr. Yudelson called me back. He said that they are waiting until they get all of the building plans before any work takes place. The documents have to be submitted to the City before anything can happen.

1/9/08 − Raphael Ketani. I tried to contact Mr. Yudelson at (212) 421−2150, but could only leave a message.

1/10/08 − Raphael Ketani. Mr. Yudelson sent me an e−mail that the owner is presently demolishing the building and will begin excavation in the next 3 weeks. He will let me know when the excavation starts.

4/8/08 − Raphael Ketani. I tried to contact Mr. Yudelson, but could only leave a voice mail on his cell (917) 295−6449.

4/17/08 − Raphael Ketani. Mr. Yudelson called. He said that excavation at the site will probably take place in 2 to 3 weeks. He said that getting the permits from the City was holding things up. The financing for the project will also come along in 2 to 3 weeks.

8/18/08 − Raphael Ketani. The case is being prepared for transfer due to a case realignment within the unit. The case manager needs to make followup calls to check on the progress of the investigation and remediation. The DEC needs to receive the investigation/remediation report and the revised PBS registration for two tanks.

11/18/11−Vought−Received email from EBC Sosik that "My understanding was that DEC was going to close the spill on this one. Its still shown as open on the database. Please advise. Thanks." Vought replied that " must admit this may be one of the sites that I assisted Veronica Zhune (who is the current PM) on. Please remind us of the site status and any discussions you, possibly I and Veronica had. I checked the Spill notes and no mention of prior conversations were noted so please refresh us'. Vought cc'd DEC Zhune on reply.

08/22/12− DEC−Jeff Vought, DEC−Veronica Zhune and OER− Shaminder had a conference call to discuss futher actions to this site. Shaminder will sent the Remedial Action Plan to DEC and the NYCDOH for review.

08/28/12− Hannah Moore sent the Remedial Action Plan dated 02/15/12.
the Department has no objections to the Remedial Action Work Plan prepared by Environmental Business Consultants dated February 15, 2012. After discussion with Randy, the Department will be keeping the spill open until we receive a Remedial Action Report (including the confirmation soil sample analyticals) as per Path 1 of Addendum to the MOA between DEC and OER.

Map Identification Number 29 **PROPERTY** **Spill Number: 0503901** **Close Date:**
55 ROEBLING ST BROOKLYN, NY TT−Id: 520A−0044−434

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2084 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	RACHEL ATAMAN − PROPERTY	Spiller Phone:	(631) 462−5866
Notifier Type:	Local Agency	Notifier Name:	RACHEL ATAMAN	Notifier Phone:	(631) 462−5866
Caller Name:	RACHEL ATAMAN	Caller Agency:	HYDRO TECH ENVIRON.	Caller Phone:	(631) 462−5866
DEC Investigator:	SKCARLSO	Contact for more spill info:	RACHEL ATAMAN	Contact Person Phone:	(631) 462−5866

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/30/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DOING SAMPLES. CLEAN UP IS NOT IN PROCESS.

DEC Investigator Remarks:

gasoline contaminated soil

need to track down the property owner and then prepare/send a contaminated soil letter.

11/21/05 − Mr. Ted Firetog, Attorney of owner which is Dekalb Aquisition Entity called. He said they never got any letter from DEC. He aslo mentioned a report was given to Ed Rossan when Ed was out at the site for inspection on July? I requested Mr. Firetog to submit the report to me for review. − KST

12/2/05 − Mr. Firetog fax a letter requesting closure. I called him back and asked for the report again. He said he will eamil to me by Monday. − KST

12/8/05: Case transfered to Andersen. Reviewed above noted Waste Characterization Report. No Furthur action letter sent. Low level contamination due to old fill material. Acetone present probably from laboratory analysis.

12/29/05−Vought−Received message from Jack Eisenberg (917−494−9097) regarding status of spill. Vought referred call to DEC Andersen.

05/17/07−Vought−New File review by Vought due to possible concerns that this site contributing to contamination at open spill #068858 at 234 North 9th Street.

Waste Characterization Report (PW Grosser)−12/5/05. 24 samples collected beneath concrete slab "to characterize soil quality". Two samples from each boring were collected. "...it is our understanding that the purchaser intends to excavate the entire site to a depth of twelve feet". Soil analyticals show: 220ppb benzene(WC−03 8−12’bg), 210ppb benzene(WC−11 8−12’bg), 1700ppb xylene(WC−12 2−4’bg), 87ppb benzene(WC−12 8−12’bg).

Remedial Action Plan (PW Grosser)−March 2006. Site formerly contained three gasoline USTs as per Sanborn maps, and one 1500−gallon fuel oil UST as per Phase I. Collection of 32 soil samples and five groundwater samples via installation of twelve

soil borings. Depth to groundwater is approximately 8−12’ below grade. Vapor barrier installation specifications included. Remedial action plan calls for excavation of soil in two areas of concern. and excavation up to a depth of ten feet. Closure Report will be submitted once items in Remedial Action Plan are completed.

Subsurface Investigation Report (PW Grosser)−3/27/06. 14 soil borings performed and Soil analyticals show: 1100ppb benzene(SB1 12−16’bg), 1700ppb xylene(Sb1 12−16’bg), 5500ppb tert−butylbenzene(SB1 12−16’bg), 1400ppb benzene(SB2 4−8’bg), 13000ppb xylene(SB2 4−8’bg), 51000ppb tert−butylbenzene(SB2 4−8’bg), 10000ppb toluene(SB2 4−8’bg), 220ppb benzene(WC−03 8−12’bg), 210ppb benzene(WC−11 8−12’bg), 1700ppb xylene(WC−12 2−4’bg), 87ppb benzene(WC−12 8−12’bg). Groundwater analyticals show: 660pp benzene(GW−01 20−24’), 170ppb toluene(GW−01 20−24’), 270ppb ethlybenzene(GW−01 20−24’), 340ppb xylene(GW−01 20−24’), 420ppb napthalene(GW−01 20−24’), 3200ppb benzene(GW−02 14−18’), 2200ppb toluene(GW−02 14−18’), 270ppb ethylbenzene(GW−02 14−18’), 1600ppb xylene(GW−02 14−18’), 3900ppb napthalene(GW−02 14−18’), 37ppb benzene(GW−03 18−22’bg), 7ppb ethylbenzene(GW−03 18−22’bg), 15ppb xylene(GW−03 18−22’bg), 170ppb napthalene(GW−03 18−22’bg), 69ppb benzene(GW−04 20−24’bg), 11ppb toluene(GW−04 20−24’bg),600ppb ethylbenzene(GW−04 20−24’bg), 86ppb napthalene(GW−04 20−24’bg), 470ppb benzene(GW−06 15−19’bg), 9ppb toluene(GW−06 15−19’bg), 11ppb ethylbenzene(GW−06 15−19’bg), 46ppb xylene(GW−06 15−19’bg), 110ppb napthalene(GW−06 15−19’bg). Slight petroleum odor and sweet chemical odor noted in boring logs. Vought referred new information to DEC Carlson for possible spill reopening.

5/17/07: Spill reopened. Called DEP Project Manager and left message :
Terrell Esesen
NYCDEP
59−17 Junction Boulevard
Flushing, NY 11373
Phone: 718−595−4473

Called PW Grosser project manager and left message:
Kris Almskog: 631 589 6353, krisa@pwgrosser.com

Spoke to Terrell Esesen. DEP issued a notice to proceed with redevelopment. He has not heard anything since. A Notice of Satisfaction (required for a building department CO) has not been issued. Indoor air sampling is required for a notice of satifaction. CC DEP on correspondence.

Spoke to Kris Almskog. The building was demolished. Excavation was not started yet. Split samples were collected in coorination with spill 068858. He will send info on split samples and an update on redevelopment.

5/18/07: Sent letter requiring endpoint sample collection, a RAP addendum with the location of excavation and a workplan for groundwater treatment, delineation north and south of the planned building.

5/21/07: Spoke to Kris Almskog. Hot spots were already excavated. Enpoint samples were not collected. Test pits will be dug to find to collect soil samples at the depth that was excavated. Will submit site plan with proposed well locations. Will submit RAP after well installation. Test pits expected to be dug on Friday. Footing have been installed. Vapor barrier installation planned in the next couple of weeks.

6/6/07: Spoke to Kris Almskog. Test pits were dug in the areas excavated, endpoint samples were collected at the depth that was excavated. Wells will installed soon. Some foundation work has been completed.

6/20/07: Emailed Kris Almskog to followup on status.

6/22/07: Received email from Kris Almskog:

"Due to changes in surface elevations due to construction activities, groundwater was observed at approximately 8' BGS at SP−01 and 10' BGS at SP−02, at the time of the sample event. Because of a slight staining in the soils in the SP−01 7−8' sample, a second sample was collected from 10−11' BGS (below the water table). Results are summarized in the attached table. VOCs in the endpoint samples from this round of sampling were all below NYSDEC RSCO, with the exception of 4−Isopropyltoluene in SB−02. This is a significant decrease when compared to the results detailed in the March 27, 2007 Subsurface Investigation Report.
Due to site conditions due to construction, the installation of the monitoring wells was temporarily postponed. It is estimated that the wells will be installed in approximately 2−3 weeks. Following installation and collection of gw samples, a report detailing the soil endpoint and gw sampling results will be prepared and submitted.
As detailed in the March 2006 RAP, there will be no living space on the first floor of the finished building, just parking and a recreation area, and a 20 mil HDPE vapor barrier will be installed beneath the buildings slab. The vapor barrier and the slab will be installed next week. Once access is available, we will install the 3 monitoring wells detailed in our work plan."

6/25/07: Performed site visit. Pilings were being installed. Pilings installed to 8 ft, (10 ft for elevator pit). Vapor barrier in rear portion will be installed this week.

6/29/07: Received email from Kris Almskog indicating that the slab was not yet installed, well installation tentatively planned on July 13, requested additional letter with well locations for DOT permit.

7/2/07: Sent letter with specific well locations for DOT sidewalk permit.

7/12/07: Called PW Grosser to confirm well installation date. Well installation delayed for DOT sidewalk permit.

8/9/07: Left phone message for Kris Almskog to followup on well installation/sampling.

8/13/07: Received phone message from Kris Almskog. Three wells were installed. They will be sampled and the results submitted.

9/21/07: Left voice message for Kris Almskog to followup on update report.

10/12/07: Left voice message for Kris Almskog (cell: 516−807−6899) to followup on site status and update report submission.

10/18/07: Reviewed subsurface investigation report. Soil samples collected from two test pits at depth of excavation in hotspots. No VOCS except isopropyltoluene. SVOCs that are likely from fill. Four monitoring wells installed. Max BTEX 2760 ppb (MW4), MTBE ND. Sent letter requiring RAP for groundwater treatment, quarterly monitoring, and submittal of indoor air sampling results that is required by DEP.

3/4/08: Reviewed letter dated 2/8/08. Letter concludes there may be an off−site source to the east, although the property to the east is residential. Spoke to Kris Almskog, requested that an additional well be installed to the east, on the sidewalk.

3/5/08: Issued a letter requesting an additional on−site well and an additional off−site well.

3/31/08: Received phone call from Ted Firetog following up on site status.

4/2/08: Reviewed well installation report dated March 19, 2008. Report did not include boring logs or gauging data. Spoke to Zeb Youngman, he will send data.

4/3/08: Received phone call from Ted Firetog following up on site status.

Theodore Firetog
Attorney and Counselor at Law
111 Thomas Powell Boulevard
Farmingdale, NY 11735−2251

Received boring logs, well construction logs, and gauging data. Groundwater flow is south/southwest.

4/15/08 − Carlson: Sent letter requiring a well on the south side of N 8th street, and quarterly gauging, sampling, and reporting.

5/8/08 − Carlson: Spoke to Ted Firetog. He proposed waiting to install an additional well until after the next quarterly sampling period. He will offer recommendations on well installation in the next quarterly report.

8/28/08 − Carlson: Reviewed Quarterly Report dated July 28, 2008. TVOCs 3,421 ppb in MW4. The groundwater flow direction is unclear. Sent letter requiring delineation workplan by 9/28/08. Additional wells are required to confirm groundwater flow direction and to delineation petroleum groundwater impact.

12/8/08 − Carlson: Spoke to Ted Firetog. An additional well is still required upgradient to confirm the possibility of an off−site source.

1/14/09 − Carlson: Spoke to Ted Firetog, they will submit workplan for upgradient sampling. Issued letter and stipulation agreement requiring workplan for upgradient delineation. (Ted Firetog: tfiretog@eniinternet.com, Zeb Youngman: zeby@pwgrosser.com)

1/22/09 − Carlson: Reviewed workplan. One upgradient sampling point requested. Sent letter requiring a revised workplan, three wells required.

Map Identification Number 30 **WOLF PETROLEUM CORP** **Spill Number: 0330060** **Close Date:**
2 BUSHWICK AVENUE BROOKLYN, NY TT−Id: 520A−0051−718

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2099 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 2 BUSHWICK AVE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: CARY WOLF − WOLF PETROLEUM
Spiller Phone: (516) 997−9300
Notifier Type: Other
Notifier Name: ROB RULE
Notifier Phone: (540) 943−8468
Caller Name: KERRY FOLEY
Caller Agency: DEC
Caller Phone: (718) 482−4977
DEC Investigator: SKCARLSO
Contact for more spill info:
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/01/1999	10/15/2004	UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	
BTEX	OXYGENATES	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

MTBE spike detected during groundwater monitoring for spill #9110815. Possible new release. Currently an Amoco station owned by Wolf Petroleum.

DEC Investigator Remarks:

2/4/04 Spill date is estimated as occuring sometime in 1999, based upon data submitted by Shell's consultant, Phoenix Environmental.

Summary:
DTW 20−25'bgs. Flow east to northeast.

7/90−2/98 MTBE concentrations in onsite wells MW−2 and MW−4 ranged from ND to 986ppb.

2/99−2/03 MTBE concentrations in wells MW−2 and MW−4 ranged from 619ppb to 34400ppb. The highest concentrations of MTBE in wells MW−2 and MW−4 were 34400ppb and 23300ppb respectively.

From 1990 to 1991, concentrations in MW−3 ranged from 24,000ppb to 26,000ppb. Product was detected intermittently in well MW−3 from 1991 to 2003. On March 30, 1998 product was not present and a groundwater sample was collected with an MTBE concentration of 3990ppb. In 2000, MTBE concentrations in MW−3 ranged from 181,000ppb to 842,000ppb.

From 1990 to 1991, concentrations in MW−1 ranged from 1600ppb to 24000ppb for MTBE. MW−1 was destroyed during construction in 1993. MTBE concentrations in MW−1 appear to be a minor spike, localized to the tank field area. This is supported by the fact that down gradient MW−2 ranged from 14 to 986ppb until 1999 when MTBE concentrations throughout the site increased significantly.

2/13/04 Stipulation agreement faxed(516−997−3673) and mailed to Cary Wolf, Wolf Petroleum and B. Beck, National Environmental.

2/13/04 Spoke with B. Beck. He expressed concern that Shell will not be held responsible for their spill. I explained that Shell spill #9110815 remains open. He will speak to Cary Wolf on Tuesday 2/17/04 and get back to me.

4/21/04 Received letter from Mr. Wolf's attorney. Reluctant to execute a stipulation because "they have info suggesting the detection of increased MTBE is related to an upgradient, off−site discharge". There is a Hess station(810 Metropolitan, spill #9702757) but downgradient. Hess is possibly being affected by Amoco as per groundwater monitoring data from Hess from 2/04.

4/22/04 Spoke to B. Beck. Requested they put deadline extension request in writing with deadline for signing stip.

4/28/04 Received unsigned copy of letter from B. Beck. Report can be transmitted on or before June 4, 2004 assuming sampling is completed soon. Installation of upgradient wells may require more time. Will sample and survey all wells, possibly install upgradient wells, and complete FOIL process. Wish to arrange split sampling and gauging with Shell's consultant. Does not indicate when or if stipulation will be signed.

4/29/04 Referred to Legal, D. Rubinton.

9/29/04 Met with Barry Cohen(Certilman Balin Attorneys), Bruce Beck(consultant National Env.) with J. Rommel and L. Oliva. Wolf is taking responsibility for spill. B. Beck to send report by 10/1/04. To sign stip in interim of consent order. Changed stip to read 2 Bushwick Ave Corp(Wolf Petroleum) as the respondent. Emailed stip to B. Cohen. STIP due 10/6/04.

10/8/04 Spoke to B. Cohen. He will be bringing stip over to Wolf for signature today.
10/15/04 Received signed stip. Also received passing system test results(Crompco).
10/19/04 Stip fully executed by T. Kunkel. Investigation summary report due 12/19/04.

1/14/05 Received letter from B. Beck of partial completion of investigation which includes sample results for three wells. Results indicate BTEX from ND(MW−2,4) to 820ppb(MW−3). MTBE from 102ppb(MW−4) to 590ppb(MW−3). MW−1 has been destroyed.

6/30/05 Received quarterly report. Sampled three wells(MW−2,3,4) in 4/05. BTEX from ND(MW−4) to 3.4ppb(MW−2). MTBE from 3ppb(MW−4) to 17ppb(MW−2). Report states that construction of MW−4 was rehabilitated to avoid a nearby self−serve car wash machine run−off from entering well. MW−3 is mounted in a 2'X2' manhole pit which collects run−off and is "oily". Trace "oily" product found in MW−3(0.3").

1/31/06: Case reassigned to Andersen. Recent monitoring report overdue. MW−2 and MW−4 have low contaminant concentrations. MW−3

has 0.3 inches product. Sent Bruce Beck an email saying quarterly reports are overdue. He replied saying samples were just taken and he would send a report in approximately 4 weeks.

3/13/06: Received letter from Bruce Beck saying a report will be submitted.

5/19/06: Consent order meeting with Wolf scheduled for June 2 at 11am.

6/8/06: Meeting with NYSDEC, Barry Cohen (Wolf's attorney's) and Bruce Beck (Wolf's consultant) regarding the consent order. Barry Cohen indicated that Sunoco may also be a responsible party.

7/10/06: Emailed Bruce Beck to set up a meeting to discuss deliverables required for consent order.

7/13/06: Received update report dated 3/3/06. MW−4 was repaired. Groundwater samples collected on 1/30/06. MW−3 has a sheen, heavy oil staining, and a PVC pipe that connects it to MW−4 (probably used for recovery). Benzene 6.9 ppb in MW4. MTBE 73 in MW4. NEMA proposed: 1) clean all wells with Biosolve, 2) cleanout MW3 manway casing and seal well at top, 3) install a monitoring well in the location of former MW1, 4) sample wells quarterly (starting after Biosolve use. Approved proposed remedial methods.

8/2/06: Meeting with Bruce Beck on 7/25/06 to discuss deliverables. Shell is also a potential responsible party for this spill.

9/28/06: Received email from Bruce Beck: "Why was Shell released from the spill?
The numbers presented by them prior to the 'MTBE spike' were not near closure. The MTBE spike was a single event and the post spike concentrations returned to pre−spike concentrations immediately afterwards."

1/11/07: Received update report. MW1 redrilled. MW3 cleaned with Biosolve. Wells sampled on 11/14/06. No product detected. Max BTEX 250 ppb (MW3), max MTBE 171 ppb (MW3). Quarterly sampling.

5/1/07: Emailed Bruce Beck to followup on submission date for next report.

5/10/07: Left phone message for Bruce Beck to followup on overdue quarterly report.

5/16/07: Reviewed update report. Wells sampled in February 2007. Trace LNAPL in MW3. Low dissolved concentrations in all wells.

8/6/07: Consent order effective 7/27/07. Update report due 10/25/07.

9/12/07: Consent order modified, RAP due 10/27/07.

2/28/08: Reviewed September 2007 − November 2007 Quarterly Monitoring Report dated January 10, 2008. VEFR conducted from MW 3 on November 14, 2008. 50 gallons recovered. Wells sampled on November 14, 2007. 0.05 ft LNAPL in MW3. Relatively low concentrations in other wells. Wells were gauged but groundwater flow direction was not determined.

3/20/08 − Carlson: Meeting with Bruce Beck at 10am. A letter−report, titled Final report on Remedial Action, dated March 18, 2008, was submitted at the meeting. Groundwater samples were not collected, groundwater flow direction was not determined, and VEFR recovery volume and waste disposal manifests were not included. Continuation of weekly VEFR events was recommended.

3/24/08 − Carlson: Reviewed report dated March 18, 2008. Report stated that weekly VEFR events have been conducted since Novemebr 17, 2007. However, no documentation on these events was provided in the report. Sent letter requiring documentation of VEFR events, quarterly groundwater sampling and gauging, and quarterly reporting.

5/8/08 − Carlson: Reviewed December 2007 − February 2008 Quarterly Monitoring Report dated March 31, 2008, received on May 7, 2008. Gauging and VEFR events were conducted once in November and December, three times in January, and twice in February. Trace product was found in MW3 in November, December, and February. Groundwater samples were collected on February 28, 2008. Maximum BTEX concentration was 3,380 ppb (MW3). Maximum MTBE concentration was 22 ppb (MW1). VEFR events will continue.

7/24/08: Reviewed Quarterly Report dated June 20, 2008. Weekly gauging of all wells. A sheen was present in all wells at some point this quarter. Weekly VEFR upgraded to all wells. Wells sampled in May 2008. MW−3 not samples because a sheen was present. Low dissolved concentrations. Review effectiveness of VEFR.

8/11/08 − Carlson: Reviewed report dated 8/8/08. Weekly VEFR ongoing. Sheen present in MW3 and MW 4 in June 2008. Groundwater sampling data was not included.

8/20/08 − Carlson: Meeting on 8/19/08 with Bruce Beck and Tracy Wall. The Department requests additional delineation. Workplan due by 10/08.

9/24/08 − Carlson: Reviewed Final Report dated 8/8/08.

10/30/80 − Carlson: Reviewed June 2008 − August 2008 Quarterly Monitoring Report. Wells sampled on August 14, 2008. Sheen present in MW3 and MW4. Maximum BTEX concentration 189 ppb (MW1), maximum MTBE concentration 17 ppb (MW1). Weekly VEFR from MW3, and MW4 if necessary. Delineation workplan was not received.

11/19/08 − Carlson: Meeting with NEMA. IP due by end of year.

12/18/08 − Carlson: Received FOIL request for 95−02757, IP deadline extended to 1/30/09 to allow for review of FOIL request.

2/20/09 − Carlson: DEC Leung returned case file because FOIL officer did not get a response from NEMA.

Reviewed Quarterly Report dated January 4, 2009. Wells gauged weekly. Weekly VEFR. Sheen present in every well throughout quarter. Groundwater flow direction was not indicated on the site plan.

IP overdue.

Received letter dated January 25, 2009 requesting reduction in VEFR from weekly to twice−monthly.

2/23/09: Received request for extension from tracy wall. Replied how long of an extension she is requesting (it is already three weeks overdue, and they have had one extension already).

4/8/09 − Carlson: Reviewed December 2008 − February 2009 Quarterly Report and Investigation Workplan dated March 22, 2009. Wells sampled on March 5, 2009. Sheen present in MW1 and MW2. Maximum BTEX concentration 254 ppb (MW3), maximum MTBE concentration 611 ppb (MW3). Weekly VEFR ongoing. Discuss effectivess of VEFR at the upcoming meeting. Investigation workplan proposes installation

of two downgradient wells on Humbolt Street. Is it possible to install a well in the parking lot at 358 Humbolt Street? Left voice message for Tracy Wall.

4/29/09 − Carlson: Met with Bruce Beck. He will pursue access agreement with owner of parking lot. Revised workplan due 5/30/09.

6/3/09 − Carlson: Received email from Bruce Beck. Access agreement in progress. Extension needed for workplan submittal.

7/2/09 − Carlson: Received email from Bruce Beck − access agreement will be sent to off−site owner.

7/8/09 − Carlson: Reviewed March 2009 − May 2009 Quarterly Monitoring Report. Wells sampled on May 28, 2009. Weekly VEFR ongoing. Sheen in every well throughout quarter. Low dissolved concentrations.

10/7/09 − Carlson: Received update report. LNAPL in MW 2,3,4. Weekly VEFR ongoing. Revised investigation plan overdue.

10/13/09 − Carlson: Received email from Bruce Beck: sidewalk wells will be installed this week. Revised IP required for well in private parking lot, they are working on access to the private parking lot.

11/18/2009 − Carlson: Meeting with Bruce Beck. IP for well installation overdue. RIR for sidewalk well installation due 1/30/2010. Wolf's attorney Barry Cohen will work on access for well installation in private parking lot.

1/7/2010 − Carlson: Approved extension for investigation and quarterly report submittal to 1/31/2010.

2/11/2010 − Carlson: Received RIR. Two sidewalk wells are clean, but soil samples were not collected. Received email − they can go back and do soil borings to delineate soil. IP for well in private parking lot overdue.

2/17/2010 − Carlson: Portfolio review meeting with Bruce Beck. NYSDEC to issue letter requiring delineation work plan.

3/4/2010 − Carlson: Issued letter requiring delineation work plan for soil borings adjacent to monitoring wells MW5 and 6, and a proposed mw in private parking lot to the SW of the property. Due 4/5/2010.

4/7/2010 − Carlson: Received cc of access request to adjacent property owner.

4/20/2010 − Carlson: Reviewed update report and investigation work plan.

4/21/2010 − Carlson: Approved work paln for installation of one off−site monitoring well (in the adjacent private parking lot), and three soil borings. RIR due in 60 days.

7/16/2010 − Carlson: Reviewed RIR and QMR. Three soil borings performed adjacent to MW's 3,5,6. Low level soil impact present in boring adjacent to MW3. Sheen present in MW3. Off−site soil boring in private parking lot was not installed. Weekly VEFR ongoing.

1/14/11 − Obligado − I received a letter from Impact requesting monthly instead of weekly gauging, since product has not been encountered for the past 3 months. I approved this request.

4/6/11 − Obligado − I reviewed the 1Q11 update report. BTEX concentrations of 16,760 ug/L were detected in MW3. No product

detected. GW is 22 feet below grade.

I reviewed some historical reports to gain information related to free product and subway tunnel. According to a 1990 Handex report, there is a subway easement in the northeast corner of the site. The bottom of the tunnel is 26 feet bgs. The top of the tunnel is approximately 7 feet below grade. Therefore the tunnel cuts across the water table and probably acts as a ground water barrier. The subway contains a sump−pump system for seepage along length of the tunnel and two pump stations located within the vicinity of the site.

9/27/11 − Obligado − I reviewed the 2Q11 update report. No product detected. 6201 ug/L BTEX in MW3. They recommend returning to quarterly gauging due to continued lack of product.

Meeting held on 1/30/2012 with Christine Camardella and Kevin Kleaka of Impact Environmental, Barry Cohen of Certilman Balin, and Carlson, Kolleeny and Urda of NYSDEC. IWP to be submitted in 30 days for an additional on−site well in the NE portion of the site. May not be feasible because the subway is located directly adjacent to the site.

3/16/2012 − Carlson: Reviewed 4th quarter 2011 update report. MW1 not sampled − inaccessible. MW2 − MW4 sampled only. No LNAPL noted. Large decrease in VOC concentration in MW3 since last sampling. Significant VOC concentration in MW1 in 9/26/11 sampling event. IWP for on−site delineation overdue − as discussed during 1/30/12 meeting.

3/29/12 − Carlson: Reviewed IWP, delineation not accessible due to subway. MNA proposed.

9/11/12 − Carlson: Reviewed 2nd quarterly update report dated 7/17/12. The report documents groundwater gauging and sampling conducted in June 2012. Volatile organic compounds are present above the Departments standards in three wells.

9/12/12 − Carlson: Issued RAWP required letter. RAWP due 10/12/12.

11/8/12 − Carlson: Received email from Christine Camardella on 9/14/12. Remediation not possible because MW−3 is located 13 feet from the subway tunnel. No intrusive work allowed within 20 feet of subway tunnel (this includes chemical injection). Replied to email − how about waterloo oxygen emitters?

Map Identification Number 31 **99 CENT STORE (DOLLAR UP STORE)** **Spill Number: 0208256** **Close Date:**
640 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0040−262

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2164 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	ANNA MARIA LINDBLAD	Notifier Phone:	(718) 389−8876
Caller Name:	ANNA MARIA LINDBLAD	Caller Agency:	TENANT	Caller Phone:	(718) 389−8876
DEC Investigator:	smsanges	Contact for more spill info:	JERRY SHERMAN	Contact Person Phone:	(718) 383−1515

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/08/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES EVERYTIME OIL IS DELIVERED A STRONG ODOR PERMEATES
HER APT WHICH IS LOCATED OVER THE STORE. EMPLOYEES IN THE STORE
HAVE TOLD CALLER THAT THE BASEMENT IS A MESS FROM DELIVERIES OF OIL
LANDLORD WAS ADVISED OF POSSIBLE PROBLEM BUT DID NT SEEM TO CARE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"

mailing address for building owner is:
Sherman Monroe
20191 E Country Club Dr.
Aventura FL 33180−3012

10/2007 City Tax records now say:
Sherman Monroe
1850 South Ocean Drive Apt 3907
Hallandale, FL 33009

Property was sold in 2009 to:
Man−Bklyn LLC
640 Manhattan Ave
Brooklyn, NY 11222

Map Identification Number 32 **169−175 NORTH 10TH STREET** **Spill Number: 0611495** **Close Date:**
169−175 NORTH 10TH STREET BROOKLYN, NY TT−Id: 520A−0048−057

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2222 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: SHARRISSA
Spiller Phone: (212) 353−8280
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rmpiper
Contact for more spill info: SHARRISSA
Contact Person Phone: (212) 353−8280

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/16/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SOIL TESTING FOUND CONTAMINATION

DEC Investigator Remarks:

DEC Piper to investigate surce of cont.
2/5/08− DEC Piper recieved addendum to RAP where a basement will now be constructed rather than slab on grade.

RAP was changed as they will not be excavating entire site. DECPiper reviewed analytical ans spoke with Jane O'Connell regarding metals. NYC OER will handle metals and DEC will handle petroleum cont in back of property.

7/16/12− DECPiper met with OER and Dave Yudelson. Excavation in front of property will go as planned with endpoints being collected. Yudelson feels cont in rear is from offsite. 981 ppm of Napthalene is highest hit. DEC Piper spoke with DEC Austin regarding rear of property. He feels to deterimine if it is from an onsite source, further delineation is required.

7/17/12− DEC piper emailed Yudelson and he will submit a work plan with at least 3−4 geoprobe points and collect soil and groundwater.

Map Identification Number 33 **HESS−MERIT STATION 32522** **Spill Number: 9502757** **Close Date:**
810 METROPOLITAN AVENUE BROOKLYN, NY TT−Id: 520A−0041−616

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2241 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: HESS/MERIT
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name: CELEST RUFER
Caller Agency: GROUNDWATER ENV. SERVICES
Caller Phone: (516) 953−1260
DEC Investigator: RJFENG
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
06/05/1995		OTHER	2−297410	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ODOR OF GASOLINE WHEN TANKS WERE UNCOVERED

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"

10/28/2005: Project reassigned from Sun to Andersen. Reviewed the triannual report dated 8/19/2005, there is local contamination around MW−4. A stip needs to be sent out to begin remediation.

12/6/05: Reviewed the tri−annual report dated 11/29/05. Three MW's sampled on October 11, 2005. Max BTEX is 2,318ppb (MW4) and max MTBE is 91 (MW2). Fluctuating concentrations. Sent RAP required letter.

1/3/06: Spoke with Gail Russo of Quantum. I gave verbal approval for the RAP received. Installation for SVES/AS system scheduled for January 4−5, 2006.

1/4/06: Letter with RAP approval mailed. SVE/AS data sheets are required to be submitted.

1/26/06: 1/25/06 meeting with Quantum, NYSDEC, and ET. SVE/AS wells have been installed. Three short term SVE/AS events will be performed.

5/19/06: Sent Gail Russo an email to followup on overdue update report.

6/8/06: Received update report dated June 2, 2006. Three extended−period SVE/AS events performed in first third 2006. ORM socks installed in wells MW−2 and MW−4. Wells sampled on 2/24/2006. MAX BTEX 1,662 ppb (Mw4), max MTBE 447ppb (MW−2). Decreasing BTEX trend and slight increase in MTBE. Three additional extended−period SVE/AS events will be performed in the second third 2006, and new ORM socks installed.

7/5/06: Meeting on 6/28/06 with Hess, Quantum, NYSDEC, EnviroTrac and GSC. Short term SVE/AS is effective.

8/29/06: Received update report dated 8/21/06. Short term SVE/AS on wells MW4, SVE1, AS1, AS2 on June 16 and June 22 2006. Groundwater sampled on June 29 2006. Max BTEX 16 (MW4), max MTBE 1,420 (MW2). ORM socks installed in MW2 and MW4 following the SVE/AS event on June 16 2006. Large decrease in BTEX in MW4. MW2 still shows significant MTBE contamination. Report states "concentrations in MW2 will continue to be evaluated to determine if these concentrations attenuate naturally or require remedial action". This site is on a triannual sampling plan.

1/17/07: Meeting on 1/16/07 with Hess, Delta, NYSDEC.

1/23/07: Received update report. Wells sampled on 10/7/06. Max BTEX 156 ppb (MW4), max MTBE 523 ppb (MW2). ORC socks in MW 2 and 4.000

4/26/07: Received update report. Wells sampled on 2/23/07. Max BTEX 175 ppb (MW4), max MTBE 690 ppb (MW2). ORC socks in use.

8/17/07: Reviewed update report. Wells sampled on 6/11/07. Max BTEX 295 ppb (MW4), max MTBE 110 ppb (MW2). Two extended period portable sve/as events were conducted in June around MW4. ORC socks were installed in MW2 and MW4. Sent email requesting that air flow rate and effluent PID be measured when conducting portable SVE/AS events, and that the total petroleum recovered then be calculated.

2/11/08: Reviewed August 2007 − November 2007 Site Status Report. Wells sampled on October 5, 2007. Max BTEX 350 ppb (MW4), max MTBE 100 ppb (MW2), benzene ND in all wells. No further action requested.

5/6/08 − Carlson: Reviewed first triannual 2008 update report dated April 28, 2008. Wells sampled on 2/12/08. Maximum BTEX concentration 96 ppb in MW4. Maximum MTBE concentration 2 ppb (MW2). ORC socks in use in MW2 and MW4. Meeting scheduled for 5/7/08.

9/8/08 − Carlson: Reviewed August 2008 Update Report. Wells sampled on June 13, 2008. Low dissolved concentrations. Sent email to Hess/Envirotrac − remove ORC socks from MW−2 and MW−4.

9/15/08 − Carlson: Received email notification that ORC socks removed on 9/11/08.

10/22/08 − Carlson: Meeting with Hess/Envirotrac. They have recent soil data from SVE/AS well installation. They will submit a petition for closure.

1/8/09 − Carlson: Reviewed closure request dated 12/12/08. Three soil borings were completed. Impacted soil present in SB3. Delineation workplan required for soil borings/monitoring wells on Bushwick Avenue. (Wolf Bushwick Avenue site is directly downgradient). Workplan due 2/8/09.

1/9/09 − Carlson: Reviewed update report. Low level groundwater impact remains.

1/22/09 − Carlson: Approved workplan for the installation of two sidewalk wells.

2/27/09 − Carlson: Received email request from Ed Russo to delay quarterly sampling by one month in order to include new wells. Report will be submitted in April as planned. Request approved.

3/18/09 − Carlson: Meeting with Hess and Envirotrac. Delineation not possible due to subway. RAP will be submitted in April 2009. Quarterly gauging requested.

5/7/09 − Carlson: Reviewed April 2009 update report. RAP overdue. Emailed John Schenkewitz about overdue report.

5/11/09 − Carlson: Received email from Ed Russo, RAP will be submitted in August 2009.

8/7/09 − Carlson: Reviewed update report. Low dissolved concentrations. Workplan to address residual soil impact will be submitted by end of the month.

8/10/09 − Carlson: Received work plan for installation of four on−site wells.

8/19/09 − Carlson: Meeting with Hess and Envirotrac.

8/27/09 − Carlson: Issued approval letter for installation of four on−site monitoring wells.

11/17/09 − Carlson: Reviewed update report. Low dissolved concentrations. New wells were not installed yet.

12/10/09 − Carlson: Reviewed second closure petition. Four additional confirmatory borings were installed.

1/27/2010 − Carlson: Meeting with Hess. NYSDEC to review case file internally.

5/20/2010 − Carlson: Meeting with Hess. NYSDEC still requires additional borings around SB3.

5/28/2010 − Carlson: Reviewed update report. Low dissolved concentrations.

8/15/2010 − Carlson: Reviewed July 2010 update report. Low dissolved concentrations. Report states Hess to delineate after receipt of NYCTA permits. Delineation work plan was not submitted.

8/31/11 − Obligado − I reviewed the 2Q11 report. BTEX is ND. They are still trying to get permit to do the soil delineation work.

11/14/11 − Carlson: Reviewed October 2011 update report. Hess still waiting for permit approval from NYCTA for delineation.

4/24/2012 − email from Joe Rennie of EnviroTrac "Please be advised that we are tentatively scheduled to conduct drilling at the above referenced location on Tuesday May 1, 2012 as per the attached NYSDEC approval letter. Please note that this project has been delayed due to New York City Transit Authority permitting requirements as this location is in close proximity to the New York City subway system. As discussed previously with NYSDEC case managers Mark Tibbe and Sarah Carlson, Hess expects that if soil and groundwater sampling data from this drilling is favorable, that closure of NYSDEC spill # 95−02757 will be granted by NYSDEC. If you have any questions, please do not hesitate to contact me at (631) 924−3001."

6/19/2012 − reviewed 1Q2012, 4/30/2012, by EnviroTrac. DTW 9.88' to 22.24' bg. Flows to southwest. 5 wells were sampled. MW−4, 4.4 ug/L BTEX, 8.3 ug/L MTBE. others are ND. Proposes to abandon monitoring wells MW−1, MW−2, MW−3 and MW−5. Next sampling event will be in 5/2012.

6/20/2012 − comments to Hess/EnviroTrac. 1) need to have the newly installed wells data in order to make the call whether or not to abandon the wells; 2) the requirement on the petition for closure: site use history; show all the investigation; show all the remediation; show all the remediation results; and the sensitive receptors information.

reply form Edward Russo "thanks for getting back to us. The data from the newly completed soil borings/wells indicated positive results, so we are working on the request for closure now. The request for closure will incorporate your comments/requests below. You can disregard the request to abandon MWs 1, 2, 3, and 5. The closure request will be submitted to you within the next couple of weeks."

7/18/2012 − reviewed the Request for Spill Closure Letter (the Letter) dated June 29, 2012, prepared by EnviroTrac Enviromental Services (EnviroTrac) on behalf of Hess Corporation (Hess). The Letter summarizes the Site's history and requests site closure. Denies the spill closure request due to the uninvestigated and unremediated residual contamination at the Site. see the letter for details on the required additional work to be done. Response by 8/20/2012.

10/4/2012 − Reviewed the response letter dated 8/20/2012 from Hess/EnviroTrac. Basically, they responded on DEC comments. The soil contamination is either infeasible to treat and the previous investigation has delineated the extent of the mentioned soil contamination location. Hess/EnviroTrac request for spill closure.

10/15/2012 − presented the case to the Section committee. Spill closure is denied based on: see the memo in eDoc for more details.

1) Residual contaminated soil was present in the former remote fills area at depth of 2 feet below ground surface. Confirmatory soil samples are required. As−built drawing and utilities mark out map shall be provided to prove infeasibility to remediate the area.

2) The confirmatory soil boring SB−3 exhibits soil contamination exceeds CP−51 SCOs at depth of 29−30 feet. Additional remediation and confirmatory sampling shall be required.

email to Hess/EnviroTrac requiring a work plan to address the above concerns/requirement by November 2012.

ACTIVE HAZARDOUS SPILLS − MISC. SPILL CAUSES − EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM AND STORMS − IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS.
All spills mapped and profiled within 1/8 mile. Between 1/8 mile and 1/2 mile search radius, spills reported to be greater than 100 units and spills reported in the NYSDEC Fall 1998 MTBE Survey are mapped and profiled. Spills reported to be less than 100 units are listed in a table at the end of this section.

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 34 **FEEDER 61** **Spill Number: 9103785** **Close Date:**
MEEKER AVE & LEONARD ST BROOKLYN, NY TT−Id: 520A−0050−363

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / LEONARD ST
Revised zip code: UNKNOWN

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: YONKERS CONST / CON ED Spiller Phone: (718) 486−6885
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: KOON TANG Caller Agency: NYSDEC Caller Phone: (718) 482−4933
DEC Investigator: JMOCONNE Contact for more spill info: Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/28/1991		HUMAN ERROR	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SEWER
DIELECTRIC FLUID	PETROLEUM	0	POUNDS	0	POUNDS	SEWER

Caller Remarks:

NYSDOT CONTRACTOR YONKERS CONSTRUCTION,SUBCONTRACTOR NICHELSON WAS EXCAVATING,DIELECTRIC OIL SPILLED FROM A 5" LINE @ 250−300 PSI,OIL LEAKED INTO AN ADJACENT OPEN EXCAVATION & CONTAMINATED SOIL.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

Appendix B site #30

07/02/91: FEEDER LINE #61 FROM RAINEY SUBSTATION (35 VERNON BLVD) TO FARRAGUT SUBSTATION (89 JOHN ST) − 5" LINE, APPROX 4 MILES = ~21,120 GALLONS OF DIELECTRIC OIL IN LINE (1.02 GALLONS PER FOOT). CON ED (RICHARD BLACKMAN) DIRECTED YONKERS CONSTRUCTION TO PUMP OIL/WATER MIXTURE IN THE OPEN EXCAVATION TO STORM SEWER. CONTAMINATED SOIL WAS REMOVED BY YONKERS CONST., NO TRANSPORTERS PERMIT. CLEANED UP.

10/3/03 Additional indformation from old files indicates feeder 61 was hit by contractor working on BQE project.

10/15/12 − draft SIWP reviewed and comment letter sent 10/12/12 (JOC)

Map Identification Number 35 **CONSTRUCTION SITE** **Spill Number: 0808463** **Close Date:**
95 BEDFORD AVE BROOKLYN, NY TT−Id: 520A−0220−442

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2130 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	KEVIN BRUSSEE − UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:	KEVIN BRUSSEE	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/28/2008		TRAFFIC ACCIDENT	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

A dump truck drove over a obstacle puncturing its fuel tank spilling its fuel onto the soil. A vac truck is enroute, and soil will be removed at a later date.

DEC Investigator Remarks:

Site is being excavated under an "E" designation with the city because of lead contamination. One of the dump trucks hit a pylon and ruptured a diesel saddle tank. Area was soil, but was contained as best they could.
ABC Pumped out the puddles & scraped up the contaminated soils. The area is being excavated and end point samples will be taken.
Kevin Brussee will forward a spill closure report to DEC within the next couple of weeks.

THE FOLLOWING ACTIVE SPILLS FOR THIS CATEGORY WERE REPORTED BETWEEN 1/8 MILE AND 1/2 MILE SEARCH RADIUS FROM THE SUBJECT ADDRESS. THESE SPILLS WERE REPORTED TO BE LESS THAN 100 UNITS IN QUANTITY AND CAUSED BY: EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM, OR STORMS. THESE SPILLS ARE NEITHER MAPPED NOR PROFILED IN THIS REPORT.

FACILITY ID	FACILITY NAME	STREET	CITY
1206249	CONSTRUCTION SITE	264 NORTH 10TH ST	BROOKLYN
1209698	GARAGE	214 NORTH 11TH	BROOKLYN
1111339	GAS STATION	51 KINGSLAND AVE	BROOKLYN
0413160	NYCSCA − AUTOMOTIVE TRADE HIGH SCH	50 BEDFORD AVENUE	BROOKLYN
0809794	GAS STATION − IND−G LINE	METROPOLITAN AVE @ UNION	BROOKLYN

CLOSED STATUS TANK FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 36 **GAS STATION** **Spill Number: 0310672** **Close Date: 12/16/2003**
392 LEONARD STREET BROOKLYN, NY TT−Id: 520A−0051−714

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 388 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Citizen
Caller Name: ANNOYOMOUS
DEC Investigator: SMSANGES

Spiller:
Notifier Name: ANNOYOMOUS
Caller Agency:
Contact for more spill info: ANNY

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (203) 876−7430

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/16/2003		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	POUNDS	0	POUNDS	SEWER

Caller Remarks:

CALLER DOES NOT WISH TO GIVE HIS NAME, BUT STATES THAT THE GAS STAION IS POLLUTING THE SEWER BY A BROKEN HOSE OR OTHER, THEY ARE SWEEPING INTO THE SEWER SYSTEM. CALLER VERY CONCERNED.UNKNOWN AMOUNTS. WOULD LIKE SOMEONE TO COME CHECK OUT.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"

Map Identification Number 37 **68 RICHARDSON STREET** **Spill Number: 9312569** **Close Date: 06/11/2001**

68 RICHARDSON STREET BROOKLYN, NY TT−Id: 520A−0047−906

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 742 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: HARRY NADLER − BERNSTEIN REALTY
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: BOB DECK
Caller Agency: PETRO TANK CLEANERS
Caller Phone: (718) 624−4842
DEC Investigator: SMMARTIN
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/25/1994	02/26/2001	TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

Caller Remarks:

AFTER TANK WAS CLEANED − OWNER FOUND RESIDUAL OIL PUMP PIT − CALLED BOB DECK, HE SAID THAT OIL SHOWED UP IN SUMP PIT OWNER ASKED TO SET UP TEMP. TANK (1080 GAL) AND CLEANED THE 2500 GAL UST. FOR INSPE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
CLOSURE LETTER DATED 7/30/2001. SMM

Map Identification Number 38 **UNKNOWN GAS STATION** **Spill Number: 0008335** **Close Date: 10/25/2005**
2 ROEBLING ST BROOKLYN, NY TT−Id: 520A−0039−898

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1566 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: STEVE CAPONE
Caller Agency: A AND M DEMOLITION
Caller Phone: (718) 272−1301
DEC Investigator: JRSTRANG
Contact for more spill info: UNKNOWN
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/17/2000		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

callers business was contracted for excavation of tank and when contaminated soil was found the callers business was fired.
another company on scene − dano construction

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"

10/25/05 − New Condo built on−site. Administrative Closure.

Map Identification Number 39 **RESIDENCE** **Spill Number: 0409577** **Close Date: 02/04/2005**
243 JACKSON STREET BROOKLYN, NY TT−Id: 520A−0040−602

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1927 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: ALBERT LONG − RESIDENCE
Spiller Phone: (718) 349−6697
Notifier Type: Affected Persons
Notifier Name: LEVAR CHAMBERS
Notifier Phone: (516) 686−2012
Caller Name: LEVAR CHAMBERS
Caller Agency: PETRO OIL
Caller Phone: (516) 686−2012
DEC Investigator: SFRAHMAN
Contact for more spill info: ALBERT LONG
Contact Person Phone: (718) 349−6697

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/26/2004		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

two thirty five tanks leakng closer to the wall. in the basement. crews not on the way :not cleaned up

DEC Investigator Remarks:

2/4/05 TJD
Demeo was contacted by the property owner. He has completed the removal of his 275 AST and converted to gas. According to the property owner the floor beneath the tank is in good shape, no holes or cracks in the concrete. Petro completed the cleanup immediately following the reported spill using absorbents. No lingering petroleum vapors inside residence. Based upon the property owners statements spill is closed. No further action required.

Map Identification Number 40 **ADAMS DELI** **Spill Number: 0013080** **Close Date: 03/14/2001**
112 NASSAU AVE BROOKLYN, NY TT−Id: 520A−0044−922

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1951 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ADAMS DELI
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name: FIREMAN RIPOLL
Caller Agency: NYC FIRE DEPT
Caller Phone: (718) 476−6288
DEC Investigator: SMSANGES
Contact for more spill info: FIREMAN RIPOLL
Contact Person Phone: (718) 476−6288

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/14/2001		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

undetermined amount of oil enter drain via basement after tank let go. hazmat on scene

Cross Ref Spill #0013079

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
Duplicate spill number closed

Ref: Spill 0013079

Map Identification Number 41 **UNICO GAS STATION** **Spill Number: 9909193** **Close Date: 10/07/2005**
445 METROPOLITAN AVE BROOKLYN, NY TT−Id: 520A−0051−717

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2523 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: GASOLINE STATION
Spiller: JOE − UNICO GAS STATION
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: BEN KANN .
Notifier Phone: (718) 383−4818
Caller Name: BEN KANN
Caller Agency: ITAR TANKS
Caller Phone: (718) 383−4818
DEC Investigator: hmdudek
Contact for more spill info: JOE
Contact Person Phone: (000) 000−0000

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/28/1999		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

underground storage tanks were being removed and contaminated soil was discovered − site assessment will be done and the owner will decide what he wants to do for clean up

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
11/1/99

On site. All tanks out. Station covered with fresh concrete already. Two 55 gallon drums on side of station need to be disposed. All tanks off site. No stockpile of soil. Spill 9909344 reported by anonymous citizen.

11/2/99

Spoke to Butch (516) 831−2982 − beeper? from ITAR Tanks. Dr. Munroe was on site to collect samples from the excavation. NO soil was removed. Concrete slab was removed. PBS needs to be updated − tanks listed as temporarily−out−of−service.

Site visit 10/5/05 − Site abandoned. No drums present.

CLOSED STATUS TANK TEST FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 42 **UNITED AMBULETTE** **Spill Number: 0410348** **Close Date: 05/03/2005**
495 GRAHAM AVE BROOKLYN, NY TT−Id: 520A−0049−641

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 523 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Tank Tester
Caller Name: JIM MELNICK
DEC Investigator: KMFOLEY

Spiller: BOB − BUSINESS
Notifier Name: JIM MELNICK
Caller Agency: PRO TEST
Contact for more spill info: BOB

Spiller Phone: (718) 234−0024
Notifier Phone: (631) 321−4670
Caller Phone: (631) 321−4670
Contact Person Phone: (718) 234−0024

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/17/2004		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	4000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

RECOMMEND: GAS TANK HAS A WET LEAK: HAS BEEN REPORTED TO FIRE DEPT;

DEC Investigator Remarks:

12/22/2004 − Sangesland − 4,000 gal gasoline tank − PBS # 2−069140

1/14/2005 TTF letter sent to:
United Ambulette 2428 East 18th St, Brooklyn, NY 11222

2/22/05 Reassigned from Rommel to Foley. Spoke to Bob Arcaro, American. He will be submitting documentation and passing test results. No release to environment.

2/28/05 Received passing tightness test results for system. Bob Arcaro to submit affidavit.

3/7/05 Received affidavit. Between 1/31/05 and 2/11/05, American Resource Technology excavated part of the tank system, isolated the tank and piping and the retested. All components tested tight but the condition of the cathodic protection isolating union on the stage 1 was worn and could have compromised the integrity of the line. There was no evidence of contamination in the excavation but the isolating unions were replaced on the stage 1 line, the suction line, the fill line and vent line as a preventative measure. On 2/15/05, a tightness test of the tank system was performed with the piping still exposed and was witnessed by FDNY who had witnessed the tightness test failure on 12/17/04. The system tested tight.

Map Identification Number 43 **64 FROST ST** **Spill Number: 9601530** **Close Date: 08/05/2010**
64 FROST STREET BROOKLYN, NY 11211 TT−Id: 520A−0048−055

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 822 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 64 FROST ST
Revised zip code: NO REVISION MADE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Tank Tester
Caller Name: TOM LEDDY
DEC Investigator: hrpatel

Spiller: MEEKER DISCOUNT MUFFLERS
Notifier Name: TOM LEDDY
Caller Agency: PRO TEST COMPANY
Contact for more spill info:

Spiller Phone: (718) 388−3329
Notifier Phone: (516) 321−4670
Caller Phone: (516) 321−4670
Contact Person Phone: (718) 388−3329

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/30/1996		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1−5	550	Horner EZ Check I or II	0.00	FAIL

Caller Remarks:

caller belives its a bad line − 5 − 550 gal tanks manifolded together

DEC Investigator Remarks:

3/11/03 − SAMUEL− File available in active unassigned spill files.

4/3/06 Diaz − Next Steps − February 2000 Investigation report stated further investigation & possible remedial work recommended. Verify & conduct work or close site.

6/28/07. J.Krimgold reviewed and approved IWP submitted by FPM Group (631−737−6200)on June 27, 2007. The plan calls for 4 soil/gw samples around tanks excavation pit

5/21/08. email from FPM's Ben Cancemi informed that excavation and sampling activities will commence on 5/22/08.

02/12/09−Hiralkumar Patel. contamianted groundwater (with sheen) was discovered under basement floor at 684 Lorimer Street, site located behind subject gas station. based on location of both sites, contamination under house at 684 Lorimer street might be orinigated from subject gas station site.

based on recent findings, case transferred from DEC Jacob to DEC Patel.

found following documents for the subject site:

− tank closure environmental site assessment, Nov. 1999
− subsurface investigation report, Feb. 2000
− subsurface investigation work plan, Jun. 27, 2007
− subsurface investigation report and remedial action plan, Sep. 10, 2007

abstract of tank closure report, Nov. 1999:

− total of eight 550 gal and one 3000 gal USTs were removed including all pipings and portions of pump islands
− all of the tank in very good condition and exhibited no evidence of corrosion

− five of the tanks were empty, and three tanks were filled with concrete
− 3000 gal tank contained approx. 1300 gal of water and petroleum products
− total of eight soil and water samples were collected after tank removal
− depth to groundwater ranged from 14−16 ft bg <−−−−−−−−−
− according to fire department record, in Nov. of 1984, the eight 550 gal tanks failed the official 10 year test
− in sept. of 1985, three 550 gal were purged and filled with concrete
− one pump was removed and all associated lines were sealed
− highest PID readings were noted at an average depth of 10 to 15 ft <−−−−−−−−−−−
− fine to medium sized grain sand with clay lenses were found to a level of 12 to 14 ft bg
− a layer of one foot in thickness of peat−like material intermixed with clay occurred at about 16 ft bg
− found xylene contamination in east and north sidewall samples
− found contamination in groundwater samples

soil analyticals:

−−−−−−−−Xylene
North−−−−4,600
East−−−−13,500

groundwater analyticals:

−−−−−−−−−−−−−−−west bottom pit−−−−−−east bottom pit
Benzene−−−−−−−−−−−−160−−−−−−−−−−−−−−−−−−230
Toluene−−−−−−−−−−−−200−−−−−−−−−−−−−−−−−−230
Ethylbenzene−−−−−−−−97−−−−−−−−−−−−−−−−−−120
Xylene−−−−−−−−−−−1,410−−−−−−−−−−−−−−−1,520
Naphthalene−−−−−−−−390−−−−−−−−−−−−−−−−−−640
MTBE−−−−−−−−−−−−−1,900−−−−−−−−−−−−−−−2,300

abstract of subsurface investigation report, feb. 2000:

− eight borings (B1 thru B8) were advanced and collected soil and groundwater samples from borings
− borings B1, B2 and B5 thru B8 were advanced in the immediate vicinity of the former tank field and borings B3 and B4 advanced near the west property line
− groundwater found at 10 ft depth− soil samples collected at 8−10 ft depth from each boring except boring B4 where no sample collected; additional soil sample collected from boring B1 at 0−4 ft depth
− high PID reading found during borings
− contamination found in soil and groundwater samples

PID readings:

−−−−−−−−−−−−−0−4−−−−−−−4−8−−−−−−−8−10
B1−−−−−−−−−−1,120−−−−−1,160−−−−−−1,190
B5−−−−−−−−−−−−110−−−−−−−−20−−−−−−−−−55

B6−−−−−−−−−−−−−−−−−−−−2,010
B7−−−−−−−−−−−−−−−−−−−−−−640

soil analyticals:

−−−−−−−−−−−−−−−−−−−−−−−−−−−B1−−−−−−−−−−−−B1−−−−−−−−−−−−B6
0−4 ft 8−10 ft 8−10 ft
Benzene−−−−−−−−−−−−−−−−−−<250
Xylene−−−−−−−−−−−−−−−−−−25,000−−−−−−−−−5,300−−−−−−−−−−1,200
1,2,4−Trimethylbenzene−−14,000
1,3,5−Trimethylbenzene−−23,000−−−−−−−−−3,200

groundwater analyticals:

−−−−−−−−−−−−−−−−−−−−−−−−−−GW1−−−−−GW−3−−−−−GW−4−−−−−GW−5−−−−−GW−6−−−−−GW−7−−−−−GW−8
Benzene−−−2,900
Toluene−−520−−−−−−−−−−−−−−−−−−−−−−−−540
Ethylbenzene−−120−−−−−−160−−−−−−260−−−−1,700
Xylene−−−−−−−−−−−−−−−−−−−−360−−−−−−−−−−−−−−−−−−−−−−−−640−−−−−−420−−−−2,000−−−15,000
Naphthalene−−140−−−−−−700
MTBE−−−−−−−−−−−−−−−−−−−−−−−260−−−−−−180−−−−−−830−−−−−−120−−−−1,200−−−−1,500−−−−7,000
1,2,4−Trimethylbenzene−−−−210−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−190−−−−−−750−−−−3,600
1,3,5−Trimethylbenzene−−−−330−−−−−−−−−−−−−−−−−−−−−−−−−170−−−−−−300−−−−1,700−−−−7,200

abstract of subsurface investigation report, Sep., 2007:

− four soil boring were installed to final depth of 15 ft bg
− soils encountered at the property generally consisted of fine to medium grained sand with gravel and trace amount of silt and clay from just below grade to the top of blue−green clay layer
− the top of the blue−green clay layer was evident in all of the borings at depths ranging from approx. 12.5 to 14.5 ft bg
− the blue−green clay layer showed no indications of potential contamination and was not fully penetrated by any of the borings
− staining and petroleum odors were generally observed in the soils from all of the borings in an interval near the water table surface, which was generally encountered at 8 to 8.5 ft bg
− interval of staining/odor was variable in thickness and ranged from approx. one foot at boring B4 to approx. 7 ft at boring B1
− PID readings in stained soils generally ranged between 10 and 60 ppm
− groundwater samples collected from each borings
− no free−phase product was observed in any borings
− found contamination in soil and groundwater samples

soil analyticals:

−−−−−−−−−−−−−−−−−−−−−−−−−−−−B1 (7−8 ft depth)
Benzene−−−−−−−−−−−−−−−−−−−−7,000
Toluene−−−−−−−−−−−−−−−−−200,000

Ethylbenzene−−−−−−−−−−−−110,000
Xylene−−−−−−−−−−−−−−−−−−620,000
Naphthalene−−−−−−−−−−−−−−−56,000
1,2,4−Trimethylbenzene−−510,000
1,3,5−Trimethylbenzene−−150,000

groundwater analyticals:

−−−−−−−−−−−−−−−−−−−−−−−−−−−−B1−AQ−−−−−−−−−B2−AQ−−−−−−−−−B3−AQ−−−−−−−−−B4−AQ
Benzene−−−−−−−−−−−−−−−−−−−−−1,500
Toluene−−−−−−−−−−−−−−−−−−−−−3,700
Ethylbenzene−−−−−−−−−−−−−−−−1,100
Xylene−−−−−−−−−−−−−−−−−−−−−−4,900
Naphthalene−−−−−−−−−−−−−−−−−−−470−−−−−−−−−−−−−−−−−−−−−−−−−120
MTBE−−−300
1,2,4−Trimethylbenzene−−−−−−1,500−−−−−−−−−−−140−−−−−−−−−−−440
1,3,5−Trimethylbenzene−−−−−−−−370

abstract of remedial action plan, Sept. 2007:

− proposed to excavate impacted soils in the vicinity of boring B1
− "based on relatively low levels of groundwater impact, its apparently limited extent, and the apparent absence of free−phase product, no groundwater remediation recommended"
− three groundwater wells are proposed to be installed for groundwater flow direction determination
− each well will be installed to a depth of no more than 14 ft, so as not to penetrate the clay underlying the property
− each well will be installed with 10 ft of screen

summary:

− groundwater found at different depths: 14−16 ft during tank removal, 10 ft during subsurface investigation in 2000 and at 8.5 ft during subsurface investigation in 2007
− no groundwater flow direction available
− no permanent wells installed at the site
− heavy soil and groundwater contamiantion found during each investigation
− contamination found in all sides of previous tank location
− DEC Jacob issued RAP approval letter on Oct. 4, 2007 <−−−−−−−−−−
− as per email from Ben Cancemi from FPM group, excavation according to approved RAP was scheduled on 05/22/08 <−−−−−−−−

Paul’s LLC **site owner**
318 Grand Street
Brooklyn, NY 11211
Attn.: Paul Joffe
Ph. (718) 486−6916 (O)
(917) 693−3292 (C)

email: pauljoffe@pauljoffe.com

according to building department permit record, Mr. Joffe applied for permit to convert service station into dinning location.

found another spill case reported at the gas station site.

− 9806871: spill called in by citizen on 09/04/1998 about abandoned tanks; tipped over. spill closed on 02/26/2003.

left message for Mr. Joffe.

received call from Mr. Carter from Mr. Joffe's office. informed him about situation. Mr. Carter doesn't know much about this site but will ask Mr. Joffe to call back.

Nathan Carter
Ph. (718) 486−6804

02/13/09−Hiralkumar Patel. left message for Mr. Joffe.

left message for Ben Cancemi, consultant who was going to perform remedial activities.

Ben T. Cancemi, CPG
FPM Group
Ph. (631) 737−6200
Fax (631) 737−2410
email: b.cancemi@fpm−group.com

02/17/09−Hiralkumar Patel. received call from Ben from FPM Group. they excavated contaminated soil to water table in front of stores and installed three monitoring wells in June 2008. but haven't got authorization to sample these wells. Ben mentioned that endpoint sample analyticals were clean. asked Ben to submit sample analytical summary table and scaled site map with locations of endpoint samples and wells. also asked him to include approx. location of tank and dispenser islands.

received email from Ben with sample analytical summary table with site plan showing endpoint sample and well locations. site plan shows that wells were installed in front of stores on−site. but no well observed during site visit, but found some fresh patches in concrete (which could be location of wells).

received call from Mr. Joffe. asked him to submit remedial action report by the end of March 06, 2009. he mentioned that area between his property and houses along Lorimer street is a commercial property at 297 Meeker Ave which is a paint shop.

02/18/09−Hiralkumar Patel. received email from Ben. they will do well sampling on 02/20/09.
02/20/09−Hiralkumar Patel. visited site. met Mr. Joffe and John (FPM group). monitoring wells found in front of store. groundwater was found around 6−7 ft bg. found sheen on water from each wells. will submit sample analyticals and groundwater flow direction.

during site visit, noticed an auto repair shop at 59 Frost Street. met store manager. site has one 275 gal waste oil AST. tank is

not registered. asked manager to register tank. sent email to DEC Jacob regarding un−registered waste oil tank at 59 Frost St. no parts cleaning operation at the auto repair shop.

Billy Alex
Unique Auto Repair
59 Frost St
Brooklyn, NY 11211
PH. (718) 387−7537
Fax (718) 384−6180
email: uniqueauto59@gmail.com

during site visit, Mr. Joffe mentioned that site at 297 Meeker Ave runs from Meeker Ave to Frost Street, between the subject gas station and house at 684 Lorimer st where contaminated water was found. Mr. Joffe mentioned that there is painting business at 297 Meeker Ave.

owner's address for 297 Meeker Ave, from property shark:

Wanda Berry
56 Frost St.
Brooklyn, NY 11211
Ph. (516) 627−4245

owner's address for 297 Meeker Ave, from ACRIS:

Wanda Berry
PO Box 131
Manhasset, NY 11030−0131

02/23/09−Hiralkumar Patel. received email from Mr. Joffe. he found from NYC DOB that site across frost st was dry cleaner and had seven 1000 gal USTs.

03/06/09−Hiralkumar Patel. received remedial action report from Ben. abstract:

− 186.34 tons of contaminated soils were excavated from southern portion of the former UST area and in proximity to the location of a reported former fuel dispensing island
− two endpoint bottom samples and four endpoint sidewall samples collected from excavation
− found some contamination in endpoint bottom sample from north end of excavation
− additional soil was removed from the north end and collected additional endpoint bottom sample
− sidewall samples were taken at 7 ft bg and bottom samples taken at 11 ft bg (means bottom endpoint samples were taken below water table)
− three monitoring wells (MW−1 through MW−3) were installed in proximity to the former soil boring locations B1 through B3 (borings that done during subsurface investigation in 2007)
− well MW−2 installed at previous boring B1 and MW−3 installed at previous boring B3
− wells were installed to a depth of approx. 14 ft bg and completed with ten feet of screen

− groundwater was found at around 8 ft depth <−−−−−−−−−−−−
− site−specific groundwater flow direction is to the northeast <−−−−−−−−−−−
− no free−phase product or other visible indications of potential contamination were observed
− found MTBE contamination in all three wells

−−−−−−−−−MTBE
MW−1−−−−−−12
MW−2−−−−−150
MW−3−−−−−−50

report missing scaled site map.

03/13/09−Hiralkumar Patel. spoke with Ben at FPM. asked him to subimt scaled site map with all previous sampling/well locations. asked Ben about any dewatering as soil was removed from below water table also. Ben mentioned that water was coming into excavation so slowly. they were removing soil from excavation and wait till water from excavation bucket drain out before loading soil for disposal. so no dewatering happened.

summary: during all previous investigations, highest contamination was found towards the west end of property, in close proximity to existing well MW−2. and MW−2 is the downgradient well at the property edge.

based on results of high soil and groundwater contamination in area of MW−2 and groundwater flow direction, requires off−site groundwater investigation. requires off−site well downgradient from existing well MW−2.

spoke with Mr. Joffe. explained him findings of previous investigations and asked him for one more well downgradient from well MW−2.

sent letter to Mr. Joffe requiring delineation of possible soil and groundwater contamination, downgradient from well MW−2. letter emailed to Mr. Joffe and Ben.

03/27/09−Hiralkumar Patel. received email from Mr. Cancemi with site map including location of proposed downgradient well.

03/30/09−Hiralkumar Patel. received email from Mr. Cancemi. he is planning to install well on April 08, 2009. sent email to Mr. Cancemi approving proposed location.

05/11/09−Hiralkumar Patel.

1:35 PM:− received report from Mr. Cancemi. abstract:

− off−site well installed (MW−4), about 20 ft downgradient from well MW−2
− well installed to a depth of approx. 14 ft bg with 10 ft of screen
− soil generally consisted of fine to medium−grained silty sand with gravel and trace amount of clay. brick, wood, coal, ash and concrete fragments were noted in the entire screen interval, but were more abundant in the top five ft of boring
− faint petroleum odors and PID responses were noted on soils from 8 to 9 ft interval; no odor or PID noticed in other intervals
− groundwater was found at approx. 7.5 ft bg <−−−−−−−−

− one soil sample collected just above water table and one at 8−9 ft depth (below water table)
− no free product observed in any wells on site
− groundwater flow towards northeast <−−−−−−−−−
− 1,400 ppb of MTBE found in soil sample at 8−9 ft depth
− 98 ppb of MTBE found in groundwater sample from MW−4

05/29/09−Hiralkumar Patel.

10:46 AM:− sent letter to Mr. Joffe requiring surrounding area site map (with possible off−site source) and quarterly groundwater monitoring and sampling for a period of one year (including wells gauging during each sampling events to define site specific groundwater flow direction). letter emailed to Mr. Joffe and Mr. Cancemi.

09/24/09−Hiralkumar Patel.
3:20 PM:− spoke with Ben. they submitted proposal to Mr. Joffe but hasn't heard back.
3:22 PM:− spoke with Mr. Joffe. he will ask Ben to conduct groundwater sampling.

09/29/09−Hiralkumar Patel.
12:13 PM:− received email from Ben. he will sample wells on 10/01/09. he mentioned that previous samples were analyzed for VOCs only as gasoline spill was the cause. he asked whether SVOC analysis needed for groundwater samples.
12:45 PM:− sent email to Ben to analyze samples for VOCs only.

12/01/09−Hiralkumar Patel.
3:26 PM:− spoke with Mr. Joffe. he spoke with Ben today. Ben is preparing report. asked Mr. Joffe to submit report by the end of 12/11/09.

12/02/09−Hiralkumar Patel.
11:20 AM:− received quarterly groundwater sampling reprt from Ben. sampled all four wells in Oct. 2009. minor MTBE contamination found in samples. will sample all wells again in Jan. 2010.
12:42 PM:− sent email to Ben asking to submit next quarterly report by end of Feb. 2010. email copied to Mr. Joffe.

12/11/09−Hiralkumar Patel.
11:20 AM:− received email from Ben including site map showing surrounding area use.

01/25/10−Hiralkumar Patel.
3:41 PM:− received message from Daniel Cole (212−341−0964) from NYC DEP. he mentioned that subject site is e−designated and currently reviewing closure report. Mr. Cole wants to know spill status.

01/26/10−Hiralkumar Patel.
2:40 PM:− received email from Ben. they collected second round of groundwater sampling last week and will submit second quarterly report once lab data is available.
3:06 PM:− spoke with Mr. Cole. Mr. Cole asked if DEC requires anything more than quarterly monitoring. informed Mr. Cole that the department may require additional work based on quarterly groundwater sampling reports. Mr. Cole mentioned that owner did air monitoring. asked Mr. Cole to send copy of air monitoring report. he will email the report.

02/11/10−Hiralkumar Patel.
8:23 AM:− received second quarterly report from Ben. minor MTBE contamination found in groundwater samples (MW−3: 20 ppb, MW−4: 40 ppb). will sample wells in Apr. 2010.

05/12/10−Hiralkumar Patel.
1:56 PM:− received third quarterly report from Ben. minor MTBE contamination found in groundwater samples (MW−3: 23 ppb, MW−4: 57 ppb). will sample wells in July 2010.

08/05/10−Hiralkumar Patel.
8:57 AM:− received fourth quarterly report from Ben. minor MTBE contamination found in groundwater samples (MW−3: 20 ppb, MW−4: 25 ppb).

based on submitted documents, case closed.
2:50 PM:− spill closure letter emailed to Mr. Joffe. email copied to Ben.

Map Identification Number 44 **BRUMAR SHEET METAL INC** **Spill Number: 0212132** **Close Date: 09/26/2006**
498 LEONARD STREET BROOKLYN, NY 11222 TT−Id: 520A−0040−325

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1245 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: 498 LEONARD ST
Revised zip code: NO REVISION MADE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: JILL HUEY − BRUMAR SHEET METAL INC
Spiller Phone: (718) 782−9052
Notifier Type: Tank Tester
Notifier Name: DAVE FAZIN
Notifier Phone: (516) 939−2959 ext. (
Caller Name: DAVE FAZIN
Caller Agency: CROWN LEAK DETECTION
Caller Phone: (516) 939−2959
DEC Investigator: VSZHUNE
Contact for more spill info: JILL HUEY
Contact Person Phone: (718) 782−9052

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
03/10/2003		TANK TEST FAILURE	2−608752	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

RECCOMEND CLEAN TANK DISCONNECT PIPING AND RETEST

DEC Investigator Remarks:

01/27/2006 Kuldeep received the Fax from Brumer, but again information
not adequate and need more follow up.
01/23/2006 Kuldeep sent a letterfor more information.

01/09/2006 Kuldeep Gupta− Facility Faxed on −01/06/2006 copy of consent Order.
Region 2 Nick Lombardo on 01/09/2006 Faxed Report of 5000 gallon Tank Test
report of 01/05/2004.

01/06/06 Kuldeep Gupta talked to Ms. Jill Huey and she need a letter in writing
what document we need. She wanted to fax it at 1−718−486−6862. DEC Faxed the
letter as requested. Kuldeep discussed with Philip Lodico Senior Attorney DEC
and found Consent order signed on 03/24/2003 for not this spill.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
Does not appear on PBS database. Called Jill Huey. She stated that she received
a Consent Order to bring the facility in compliance with state laws. The tank
is 5000 gallons. 3/11/2003 ars.

DEC Sigona sent TTF notice on March 14, 2003.

9/11/06 This case was transfered from Albany to Region 2. Zhune spoke to Jill Huey (ph: 718−9052) She doesn't want phone calls.
She wants every thing by writing. 9/11/06 A TTF letter was sending to :
Jill Huey
498 Leonard Street
Brooklyn, NY 11222

09/18/06 Ms. Huey sent a package of documents the passing tank test from 2003 was missing. 09/19/06 I sent a letter requesting
her the tank test results from 2003.
09/22/03 Ms. Huey sent a package of 8 pages including the passing tank test results from 2003, letters stated the fallowing: The
system test passed. After the system test failed in October due to a vent bad line, we decided to replace all pipes just to be
sure we would pass. Also we would like to convey to your department that no contamination was detected in our system.

What was the cause of the tank test failure on March 3, 2003?
Water in tank issue. Piping needed to be replaced was replaced and systems test passed as a result of replacement.

09/27/06 This case was closed for V. Zhune in accordance with J. Vought.

Map Identification Number 45 **CLOSED−LACKOF RECENT INFO** **Spill Number: 8706710** **Close Date: 03/04/2003**
275 NORTH 8TH ST. NEW YORK CITY, NY TT−Id: 520A−0046−974

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1899 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: OUR LADY OF MT. CARMEL
Spiller Phone: (718) 384−0223
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: ADMIN. CLOSED
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/06/1987		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

5K TANK FAILED WITH A HIGH VOLUME LEAK, WILL EXCAVATE, ISOLATE, AND RETEST. CONTACT: FR. CASSARO (718) 384−0223. CLOSED DUE TO LACK OF ANY RECENT INFO− DOES NOT MEET ANY CLEAN UP REQUIREMENTS.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ADMIN.CLOSED"
03/04/2003−Closed Due To The Nature / Extent Of The Spill Report

Map Identification Number 46 **AUTOMOTIVE HIGH SCHOOL − TTF** **Spill Number: 0900454** **Close Date: 03/22/2011**
50 BEDFORD AVENUE BROOKLYN, NY 11222 TT−Id: 520A−0226−135

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2065 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: KEVIN BOGER − NYC SCHOOL CONSTRUCTION AUTHORITY
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: LXZIELIN
Contact for more spill info: JOSE ORCENI
Contact Person Phone: (201) 797−1909

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/13/2009		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

TANK TEST FAILURE ON A 1000 GALLON UST UNK IF ANY PRODUCT WAS SPILLED.

DEC Investigator Remarks:

4/24/2009 TTF letter sent to:
NYC Dept of Field Operations − Fuel Division
Mr. James Merlo
44−36 Vernon Blvd
Long Island City, NY 11101

6/12/09. J.Krimgold reviewed and approved the proposed scope of work outlined in the letter report submitted by TRC and dated June 2, 2009.

01/28/10. J.Krimgold reviewed the SIR dated 08/07/09 and concurs with conclusions and recommendations of the report. However, requested closure of waste oil tank and submittal of appropriate Bulk Storage Application.

02/17/11 − LZ

The waste oil tank was permanently closed in place (edocs), which meets DEC requirements. An application was submitted to change the status of the tank. However, it has been returned to the applicant since the tightness test for another tank at the facility is overdue.

The spill case is closed.

Map Identification Number 47 **PS 610** **Spill Number: 0004062** **Close Date: 03/21/2005**
50 BEDFORD AVENUE BROOKLYN, NY 11222 TT−Id: 520A−0044−918

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2065 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: NONE
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name: JOHN LEDDY
Notifier Phone: (516) 321−4670
Caller Name: JOHN LEDDY
Caller Agency: PROTEST ENTERPRISES
Caller Phone: (631) 321−4670
DEC Investigator: TJDEMEO
Contact for more spill info: FRANK CARDELLO
Contact Person Phone: (718) 391−6832

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/30/2000		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	20000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

tank test failure, no product leaked

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"

3/21/2005 This spill number (tank test failure) is being closed out and consolidated with a new spill (#0413160) which involves the removal of this tank and contaminated soil found around it.

Map Identification Number 48 **SHELL** **Spill Number: 8900824** **Close Date: 04/30/1991**
2 BUSHWICK AVENUE BROOKLYN, NY TT−Id: 520A−0051−719

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2099 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 2 BUSHWICK AVE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Tank Tester
Caller Name: W T KLEIN
DEC Investigator: SULLIVAN

Spiller: SHELL OIL
Notifier Name:
Caller Agency: FRANKLIN CONTRACTOR
Contact for more spill info:

Spiller Phone: (516) 942−4122
Notifier Phone:
Caller Phone: (718) 762−5200
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
04/26/1989	04/30/1991	TANK TEST FAILURE	2−190411	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

550 GALLON TANK FAILED TANK AUDITOR WITH A LEAK RATE OF .10GPH, WILL EXCAVATE & REPAIR & RETEST, POSSIBLE PIPE LEAK,DEC INVESTIGATED SITE.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 49 **810 METROPOLITAN AVE** **Spill Number: 9404715** **Close Date: 11/22/1994**
810 METROPOLITAN AVENUE BROOKLYN, NY TT−Id: 520A−0041−463

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2241 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: MERIT SERVICE STATION
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: ELLEN PENNA
Caller Agency: TYREE
Caller Phone: (516) 249−3150
DEC Investigator: O'DOWD
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/06/1994	11/22/1994	TANK TEST FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

ISOLATE/RETEST

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 50 **BUSINESS** **Spill Number: 0510292** **Close Date: 01/25/2006**
32 BEADEL STREET BROOKLYN, NY TT−Id: 520A−0046−485

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2316 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Fire Department
Caller Name: MARLON JOSEPH
DEC Investigator: JMKRIMGO

Spiller: MARLON JOSEPH − BUSINESS
Notifier Name: MARLON JOSEPH
Caller Agency: PETROLIUM TANK CLEANERS
Contact for more spill info: MARLON JOSEPH

Spiller Phone: (646) 772−7949
Notifier Phone: (646) 772−7949
Caller Phone: (646) 772−7949
Contact Person Phone: (646) 772−7949

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/30/2005		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

ABOVE LIQUID LEAK.

DEC Investigator Remarks:

TTF Ltr sent to:

Alberts Plating Works Inc.
32 Beadel St
Brooklyn, NY 11222

Attn: Super/Facility Manager

1/12/06. J.Krimgold reviewd the letter−report dated January 9, 2006 and submitted by Middleton Environmental, Inc (631−321−4349). The report stats that the tank (UST) failed the test due to the leak in the ullage and that three soil samples taken beneath the tank do not show contaminant concentration above NYSDEC TAGM levels. It also suggests that the spill case can be closed once documentation for UST closure submitted to the Department. This report was not approved by the Department due to the lack of the following information:

Soil samples location (lateral and vertical).
Soil sampling at the fill port and along the fill line.
Boring logs.
Scaled site map.

1/25/06. J.Krimgold reviewed a letter report dated January 25, 2006 and submitted by PTC,Ltd.
According to the report, the perforations of the tank shell was found at the top of the tank. Samples were taken through the tank bottom and did not show contaminant above TAGM levels. NFA letter.

Map Identification Number 51 **COOPER PARK −NYCHA** **Spill Number: 9515837** **Close Date: 06/10/2008**
295 JACKSON ST BROOKLYN, NY TT−Id: 520A−0046−200

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2357 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: CALLER − NYC HOUSING AUTHORITY
Spiller Phone: ext. 8480
Notifier Type: Responsible Party
Notifier Name: SEBASTIAN LOREFICE
Notifier Phone: (212) 306−3233
Caller Name: SEBASTIAN LOREFICE
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3233
DEC Investigator: jkkann
Contact for more spill info: FRANK OCELLO
Contact Person Phone: (212) 306−3233

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/11/1996		TANK TEST FAILURE	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	20000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

no apparent leak − tank failed

DEC Investigator Remarks:

12/16/05: This spill transferred from J.Kolleeny to S.Kraszewski.

07/28/06: NYCHA update summary states that two 20K USTs installed in 1953 and store #2 oil are currently in service. Both spills due to TTFs caused by leaking man way gasket. Both repaired and retested. The tanks are rescheduled for testing in 2007. No site assessment available. NYCHA recommends a site assessment be performed during tank replacement. − SK

09/26/06:Site status summary provided to DEC by NYCHA indicates that two monitoring wells are on site and that water/oil mixture is being bailed. Site was therefore identified as a high priority. Site transferred from S. Kraszewski to J. Kann − JK

6/10/08: J.Kann − spill closed and consolidated with 9515713.

Map Identification Number 52 **COOPER PARK HOUSING −NYCHA** **Spill Number: 9515713** **Close Date: 09/14/2009**
295 JACKSON ST BROOKLYN, NY TT−Id: 520A−0046−199

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2357 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: PAUL GOLDSTEIN − NEW YORK CITY
Spiller Phone: (212) 306−3233
Notifier Type: Local Agency
Notifier Name: PAUL GOLDSTEIN
Notifier Phone: (718) −
Caller Name: PAUL GOLDSTEIN
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3233
DEC Investigator: jkkann
Contact for more spill info: PAUL GOLSTEIN
Contact Person Phone: (212) 306−3233

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/07/1996		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

12/16/05: This spill transferred from J.Kolleeny to S.Kraszewski.

07/28/06: See DEc remarks for spill #9515837. − SK

5/21/08: J.Kann − site reassigned to J.Kann. Investigative work Plan received.

6/10/08: Spill 9515837 closed and consolidated with this spill.

8/18/09: J.Kann − Site Assessment report submitted in June 2009. Report indicates sheen of product in one well (MW−1). Two other groundwater monitoring wells sampled and results indicate no exceedances. Follow up observations performed by the consultant indicate that the sheen was no longer present in August 2009. A site visit is planned for August 21 to observe groundwater sampling of the well.

9/14/09: J.Kann − Site visit made on 8/21. No oil sheen present in the well (MW−1). Malcolm Pirnie sampled well. Summary of analysis submitted on 9/11. Information provided indicated all concentrations below guidance. Based on information received, spill closed.

Map Identification Number 53 **COOPER PARK −NYCHA** **Spill Number: 9414384** **Close Date: 03/29/1996**
295 JACKSON ST BROOKLYN, NY TT−Id: 520A−0046−198

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2357 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYC HOUSING AUTHORITY
Spiller Phone: (212) 306−3142
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: SEBASTIAN LORIFICE
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3233
DEC Investigator: HEALY
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
01/31/1995		TANK TEST FAILURE	2−474630	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
002		Unknown	0.00	UNKNOWN

Caller Remarks:

TANK TEST−GROSS FAILURE

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

10/10/95: This is additional information about material spilled from the translation of the old spill file: TTF.

Map Identification Number 54 **COOPER PARK** **Spill Number: 9414271** **Close Date: 03/29/1996**
295 JACKSON ST BROOKLYN, NY TT−Id: 520A−0046−201

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2357 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYC HOUSING AUTHORITY
Spiller Phone: (212) 306−3142
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: SEBASTIAN LORIFICE
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3233
DEC Investigator: HEALY
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
01/27/1995		TANK TEST FAILURE	2−474630	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
001		Unknown	0.00	UNKNOWN

Caller Remarks:

TANK TEST FAILURE − COULD NOT MAINTAIN LEVEL

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

10/10/95: This is additional information about material spilled from the translation of the old spill file: TTF.

Map Identification Number 55 **F N W MECHANICAL** **Spill Number: 0306649** **Close Date: 11/13/2006**
139 NORTH 10TH STREET BROOKLYN, NY 11211 TT−Id: 520A−0048−059

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2554 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 139 NORTH 10TH ST
Revised zip code: NO REVISION MADE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Tank Tester
Caller Name: PHIL FAZIN
DEC Investigator: BKFALVEY

Spiller: FRANK − FRANK DROSS
Notifier Name: PHIL FAZIN
Caller Agency: A−1 CROWN LEAK CORPOATION
Contact for more spill info: PHIL FAZIN

Spiller Phone: (718) 384−5751
Notifier Phone: (516) 375−5890
Caller Phone: (516) 375−5890
Contact Person Phone: (516) 375−5890

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/23/2003		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	3000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

RECOMMEND TO UNCOVER−EVALUATE AND RE−TEST

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"
9/23/03, ROSSAN; DDO: Tank test failure letter was prepared and

sent to:

Mr. Frank Dross

F N W Mechanical

139 North 10th Street

Brooklyn, NY 11211

Ed.

10/3/05: CBN
Called Phil Fazin, the tank tester and was told he would get back to DEC with more info.

9/22/06 ttf letter sent to owner:
Sandra Maislen
San Ten Raz LLC
120 Pleaseant St., Apt. 2
Brookline, MA 02446 bf

11/13/06 On 10/12/06, received letter from Sandra Maislen in response to ttf letter. Reviewed letter and the attachments. The fill line, stick line, and vent line failed. I called Petroleum Tanks to see if they remember detecting any contamination when lines were replaced. I was told Mark Salamack was the person in charge of the tank repairs. He was in a meeting at the time of the call and I left a message for him to call me. Mr. Salamack (718−624−4842) called me back and told me that there was no observed contamination and no elevated reading on the PID meter used at the time of the repairs. NFA. bf

CLOSED STATUS UNKNOWN CAUSE SPILLS AND OTHER CAUSE SPILLS IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 56 **TRANSMISSION MANHOLE 71303** **Spill Number: 1011703** **Close Date: 04/19/2011**
MEEKER AND RICHARDSON ST QUEENS, NY TT−Id: 520A−0265−108

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / RICHARDSON ST
Revised zip code: 11222

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name:
DEC Investigator: RWAUSTIN

Spiller:
Notifier Name:
Caller Agency:
Contact for more spill info: ERT

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/23/2011		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	31.00	GALLONS	0.00	GALLONS	
OTHER	OTHER	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

water and fluid mix in transmission manhole, investigation ongoing. clean up complete

DEC Investigator Remarks:

4/19/11 − Austin − 31 gals. cable oil found on 800 gals. water in vault − Source not found − Con Ed contained and cleaned up the

spill − see eDocs files for more details − spill closed − end

Map Identification Number 57 **SERVICE BOX** **Spill Number: 0008222** **Close Date: 03/27/2001**
87 RICHARDSON ST BROOKLYN, NY TT−Id: 520A−0047−904

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 313 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR DELLACROSE
Notifier Phone:
Caller Name: STEVE ROMARO
Caller Agency: CON ED
Caller Phone: (212) 580−6763
DEC Investigator: KMFOLEY
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/13/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER REPORTING A SPILL OF MATERIAL FROM AN UNK SOURCE CONED#133919 SAMPLES TAKEN CLEAN UP PENDING LAB RESULTS NO CALLBACK NECESSARY

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
e2mis Notes:

1 pint unknown oil on 300 gallons water. Appears to be contained to structure. Oil ID not able to be run due to insufficient amount of material recovered. PCB sample <1ppm. Cleanup completed by double washing with slix. Liquids and solids removed by tanker and vactor. No leaking equipment. KMF 4/3/01.

Map Identification Number 58 **MANHOLE (UNK #)** **Spill Number: 0001500** **Close Date: 09/21/2001**
87 RICHARDSON ST BROOKLYN, NY TT−Id: 520A−0047−903

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 313 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR PACE
Notifier Phone:
Caller Name: BRIAN JOYCE
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: BRIAN JOYCE
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/05/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ABOVE MATERIAL DISCOVERED AT ABOVE LOCATION. AMOUNT REPORTED

AS 3 OUNCES. MATERIAL ONTOP OF 3 GALLONS OF WATER. SAMPLE TAKEN

AND CLEANUP IS PENDING RESULTS. CON ED # NOT AVAILABLE.

NO CALL BACK REQUESTED.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis #131243 Notes:

5−5−00 1/2pt unknown oil on 3gal water. Liquid sample taken returned <1ppm PCB. CLeanup completed by double washing with slix.
Liquids removed by tanker, solids by vactor. No leaking equipment.

Map Identification Number 59 **COMMERCIAL PROPERTY** **Spill Number: 0408368** **Close Date: 07/25/2005**
120 NEWTON AVENUE BROOKLYN, NY TT−Id: 520A−0044−682

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 373 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 120 NEWTON ST
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: MR. ANTHONY GERENIO − 120 NEWTON STREET, LLC
Spiller Phone: (718) 641−1098
Notifier Type: Other
Notifier Name: ROMEO SANTOS
Notifier Phone: (718) 857−3100
Caller Name: ROMEO SANTOS
Caller Agency: DON CARLO ENVIRONMENTAL S
Caller Phone: (718) 857−3100
DEC Investigator: JMKRIMGO
Contact for more spill info: MR. ANTHONY GERENIO
Contact Person Phone: (718) 641−1098

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/29/2004		OTHER	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

during excavating found unknown petro. strong odor of petro; had a previous spill in 1998:

DEC Investigator Remarks:

11/01/04. J.Krimgold spoke to Mr. Romeo Santos (a consultant for the owner). They were called to do phase 1 and 2 site assessment. While excavating a test pit a UST filled with water and dark contaminated soil was found. Also noted a strong sulfuric or methane odor. They took a sample for ID from UST and will analyze soil to ID contamination. Will get back whith results on 11/5/04.

03/08/05. J.Krimgold spoke to Danny Singh (718−857−3100)from Don Carlo Env. Serv. Inc. 1,500 tons of contaminated soil was excavated. The size of excavation is ~70x40' to a depth of GW at ~ 11'. They are prePairing a Work Plan to fully investigate (deliniate) area of contamination. Should be ready in 2 weeks. Report also will be send to DEP for rezoning.

7/25/05. J.Krimgold reviewed the Pase II Investigation Report submitted on June 2, 2005 by Don Carlo Env. Services, Inc. (718−857−3100). 1523 tons of contaminated soil were removed and disposed of. Post excavation soil and groundwater sampling did not show contaminant levels above TAGM. NFA letter.

Map Identification Number 60 **Spill Number: 9900802** **Close Date: 08/10/1999**

392 LEONARD STREET BROOKLYN, NY TT−Id: 520A−0051−715

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 388 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 392 LEONARD ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller:
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: MR TUROFF
Caller Agency: TRINITY PETROLEUM
Caller Phone: (718) 257−8470
DEC Investigator: SMSANGES
Contact for more spill info: UNKNOWN
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/21/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MOTOR OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT DURING REMOVAL OF 550 GAL TANKS CONTAMINATED SOIL WAS FOUND.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
5/19/99 SPOKE TO REED TUROFF (TRINITY CONSULTING − 718−257−8470) HE SAID THE OLD TANKS WERE PULLED IN APRIL. SINCE A PROBLEM WAS FOUND, NO NEW TANKS HAVE BEEN INSTALLED AND THE OWNER & OPERATOR ARE IN DISCUSSIONS AS TO WHO IS RESPONSIBLE AND WHAT WILL BE DONE. ACCORDING TO MR. TUROFF, THE OPERATORS ARE: KAY SINGH AND K. JANGI (718−388−3329). OWNERS ARE: DIMITRI (DAVID) SHTAIRMAN AND WALTER ROMANSKY (718−388−3464)

7/28/99 SPOKE WITH DIMITRI SHTAIRMAN − HE SAYS A NEW LEASE WAS SIGNED WITH KAY SINGH FOR THE STATION AND MR. SINGH AS OPERATOR IS RESPONSIBLE FOR ALL ENVIRONMENTAL WORK ON THE SITE.

DIMITRI SAYS THAT ALL CONTAMINATED SOIL HAS BEEN DUG OUT AND REMOVED. HE SAYS END POINT SAMPLES OF THE OPEN HOLE WERE TAKEN BY ASTEM LAB INC (DR. NORMAN MUNROE 718−459−3770). RIGHT NOW THE SITE HAS A LARGE OPEN HOLE AND THEY ARE NOW WAITING FOR THE CONTRACTOR TO INSTALL THE NEW TANK & SYSTEM, BACKFILL AND REPAVE THE SITE.

8/10/99 − ASTEM LABORATORIES, INC. SUBMITTED A REPORT SHOWING 6 END POINT SAMPLES (1 EACH SIDE, 2 BOTTOM) TAKEN FROM PIT WHERE 550 TANKS WERE. ALL SAMPLES WERE TESTED FOR 8021 + MTBE. ALL RESULTS INDICATE BTEX AND MTBE WERE <50 PPB.

CLOSE OUT (CPT SAYS OK)

Map Identification Number 61 **CONSTUCTION SITE** **Spill Number: 0610686** **Close Date: 08/26/2010**
392 LEONARD STREET BROOKLYN, NY TT−Id: 520A−0051−713

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 388 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 392 LEONARD ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: GABRIEL KAPUR − CONSTUCTION SITE
Spiller Phone: (917) 682−3753 ext. 0
Notifier Type: Police Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RVKETANI
Contact for more spill info: GABRIEL KAPUR
Contact Person Phone: (917) 682−3753 ext. 0

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/20/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER REPORTS A CALL REGARDING LARGE PUDDLES OF GASOLINE AT THIS SITE: SERVICE NUMBER 1516668

DEC Investigator Remarks:

Vought was on off hours

8/16/10 − Raphael Ketani. The spill was called in on 12/20/06 by the NYPD and Gabriel Kapur of the NYCDEP (917) 682−3753. The spill was large gas puddles on the surface of the site.

The site is block and lot 2733 and 7. It was sold on 7/28/87 by Lawrence Sievers of 5 Mt. Logan Court, Farmingville, NY to Walter

Romansky and Dimitri Shtairman of 2421 East 74 Street, Brklyn, NY.

There are two PBS registrations. PBS #2−510793 is for the 278 Fuel Stop, Inc. It lists four 4,000 gal. USTs and one 550 UST as still active with gasoline and diesel. The 4,000 gal. tanks were installed in either 1972 or 1999. The 550 UST was installed in 1939. There were 4 USTs that were closed and removed in 1939. The owner of the site is 278 Fuel Stop, Inc. (718) 388−3329. The contact is Kuldeep S. Sakota (718) 388−3329/(201) 548−1658.

PBS #2−611136 is for A−1 Auto Repairs, Inc. It lists just a 275 gal. waste oil tank as being in service that was installed in 6/1/08. The owner of the site is Avtar Singh, 126 Berwood Drive, Linden, NJ 07036 (908) 486−0412. Mr. Singh is also at (718) 388−3464.

There is no paper file and there are no E−docs.

There are two other spill cases, both of which were closed by Steve Sangesland of Spills. They are #9900802 and #0310672. Case #9900802 was opened on 4/21/99 and closed on 8/10/99. It was based upon the discovery of oil contaminated soil when they pulled the 550 gal. UST. The soil was dug out and the end point samples were below 50 ppb.

Case #0310672 was opened on 12/16/03 and closed on 12/16/03. There was an annonymous call regarding someone sweeping gas into the sewers.

8/25/10 − Raphael Ketani. I made an unannounced site visit today. It was raining moderately, but I felt that it would still be possible to determine the site conditions. The site fronts on Leonard Street and on Meeker Avenue, where it parallels the Brooklyn Queens Expressway. There wasn't much to see from the Leonard Street side. There is a corrugated still building that opens onto Leonard Street. It has a sloping roof (see E−docs). The building was being used as a metal fabrication shop. The floor was clean. Next, I went to the Meeker Avenue side of "278 Fuel Stop." Even though it was raining, I didn't see any sheen on the pavement in the fueling area (see E−docs). There appeared to be some small (about 6" diameter) stains on the, but nothing else. Next, the gas station manager showed me the repair area. The area was largely try as it was mostly covered by a roof. There were several trucks in and next to the garage. I didn't see any free product on the pavement, but there were some old stains. I told the station manager to make sure that any spills that occur are cleaned up quickly. After this, I left the site.

As the spills mentioned in the original spill report are no longer present, and as there appeared to be no new spills, I have determined that there is no threat to the environment or the public. Therefore, I am closing the spill case.

Map Identification Number 62 **VS 3971** **Spill Number: 9900576** **Close Date: 04/26/1999**

BAYARD ST/LENARD ST BROOKLYN, NY TT−Id: 520A−0043−029

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 407 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: BAYARD ST / LEONARD ST
Revised zip code: 11222

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	PACE	Notifier Phone:	(212) 580−6763
Caller Name:	MIKE CESARE	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	MIKE CESARE	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/15/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

APPROX 1 ONCE OF ABOVE MATERIAL DISCOVERED AT ABOVE LOCATION.

CLEAN UP PENDING TEST RESULTS. CON ED #124261. NO CALL BACK

REQUESTED.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

Found unknown & undiaperable sheen in VS 3971 on 20 gallons of water. Spill is contained. Sump pit only in structure no sewer connection. Pressure tested VS o.k. records show V.S. to have 224 ppms (FDR 6B53)

<1.0 ppm, 4−16−99, 0400 hrs, K. Hufford flush reports in VS3971 cleanup completed.

Map Identification Number 63 **INTERSECTION FROM MANHOLE 4917** **Spill Number: 1011113** **Close Date: 02/25/2011**
MANHATTAN AVE AND FROST ST BROOKLYN, NY TT−Id: 520A−0260−387

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 413 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: MANHATTAN AVE / FROST ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: CON ED
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RWAUSTIN
Contact for more spill info: ERT
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/04/2011		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0.01	GALLONS	0.00	GALLONS	

Caller Remarks:

1 qt unknown oil to 20 gallons water − pumped to sewer drain − cleanup pending

DEC Investigator Remarks:

2/25/11 − Austin − 1 quart cable oil leak in service vault, on top of 20 gals water − Spill contained and cleaned up by Con Ed − see documents in Edocs for further information − spill closed − end

Map Identification Number 64 **COMMERCIAL LOT** **Spill Number: 0409303** **Close Date: 11/19/2004**
407 LEONARD STREET/BAYARD BROOKLYN, NY TT−Id: 520A−0044−683

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 459 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 407 LEONARD ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ANNY − COMMERCIAL LOT
Spiller Phone:
Notifier Type: Citizen
Notifier Name: ANNYOMOUS
Notifier Phone: ( ) −
Caller Name: ANNYOMOUS
Caller Agency:
Caller Phone: ( ) −
DEC Investigator: JMKRIMGO
Contact for more spill info: ANNY
Contact Person Phone:

Category: Investigation indicates there was no spill.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/19/2004		OTHER	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

CALLER STATES THAT EXCAVATION IS GOING ON AT THIS SITE AND THE ODORS ARE HORRIBLE, WOUL DLIKE SOMEONE TO CHECK OUIT: TRACKING DOWN THE ROAD ALSO;

DEC Investigator Remarks:

11/19/2004. Same site as in spill # 0130048.

Map Identification Number 65 **COMMERCIAL LOT** **Spill Number: 0130048** **Close Date: 02/18/2005**
407 LEONARD ST BROOKLYN, NY TT−Id: 520A−0051−743

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 459 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 407 LEONARD ST.
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: PATRICK FITZGERALD
Spiller Phone: (815) 338−0110
Notifier Type: DEC
Notifier Name:
Notifier Phone:
Caller Name: JACOB KRIMGOLD
Caller Agency: NYS DEC
Caller Phone: (718) 482−6389
DEC Investigator: JMKRIMGO
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/15/2001		OTHER	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER
KEROSENE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

NYSDEC has performed a subsurface investigation on adjacent property Spill # 9703488 @ 75 Richardson Ave. and determined that the motor fuel storage systems located on this property might have been a source of contamination.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
See file Eng. CO. 229 @ 75 Richardson Ave.

09/10/03. J.Krimgold spoke over the phone with Iradg Youssefinia from NY Petroleum, Inc. @ 251 Post Ave., Westbury, NY 11590 (516) 338−0626. He is a consultant/contractor preparing proposal to investigate this site for Mr. Morris Borenboum (new owner?). He will submit an investigation plan for the Departmental review.

6/16/2004 Attorney for new owner called to ask what needed to be done to close out the case. Sangesland told him to ask Krimgold. Attorney said he has a report from Dr. Yousefinia showing clean water and soil samples. Sangesland told him to mail in a copy of the report to Krimgold for review.

8/2/04. J.Krimgold has reviewed the Phase II report submitted by NY Petroleum and Driling Co. and dated 06/10/04. The report was not approved and a letter requesting to make corrections ans resubmit the report has been sent to Mr. Borenbaum and Mr. I Youssefnia.

11/01/04. J.Krimgold has reviewed a corrected report dated 09/16/04. The report still cannot be approved due to the lack of information (Phase I is missing). J.Krimgold requested an on−site meeting with a consultant.

12/03/04. J.Krimgold met with Mr. I. Youssefnia at the site and maped locations of additional soil borings.

See also 0409303. Rommel

2/18/05. J.Krimgold reviewed the Ground Water Investigation report submitted on January 13, 2005 by NY Petroleum and Drilling Corp. Based on the findings of this and previouis reports no contamination was found at this property. NFA letter.

Map Identification Number 66 **CHLORINE FACTORY** **Spill Number: 9809496** **Close Date: 02/12/2003**
126 NEWTON ST BROOKLYN, NY TT−Id: 520A−0049−637

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 474 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CHLORINE FACTORY
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: STAN STETONBURG
Notifier Phone: (718) 595−6777
Caller Name: OPERATOR 143
Caller Agency: DEP
Caller Phone: (718) 595−6777
DEC Investigator: KGHALE
Contact for more spill info:
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/28/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
CALCIUM	OTHER	0	GALLONS	0	GALLONS	SOIL
HYPOCHLORITE	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FIRE AT A CHLORINE FACTORY − FIRST REPORTED OEM LIMA 212−374−5500

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HALE"
02/12/2003− Closed Due To The Nature / Extent Of The Spill Report.

Map Identification Number 67 **MANHOLE 64805** **Spill Number: 0904192** **Close Date: 08/18/2009**
MEECKER AVE A DN FROST ST BROOKLYN, NY TT−Id: 520A−0230−843

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / FROST ST
Revised zip code: 11211

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNK	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/10/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	7.00	GALLONS	0.00	GALLONS	

Caller Remarks:

7 gallons of unk oil into manhole contained to the structure. Clean up pending sample results.

DEC Investigator Remarks:

8/18/09 − Austin − Spill of cable oil − Spill contained and cleaned up − see eDocs for details − spill closed − end

Map Identification Number 68 **59−65 FROST STREET** **Spill Number: 0212488** **Close Date: 02/14/2007**

59−65 FROST STREET BROOKLYN, NY TT−Id: 520A−0044−679

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 730 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	SAME − SAME	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	JOHN SCHRETZMAYER	Caller Agency:	ASSOCIATED ENVIROMENTAL	Caller Phone:	(631) 744−8900
DEC Investigator:	WXSUN	Contact for more spill info:	JOHN SCHRETZMAYER	Contact Person Phone:	(631) 744−8900

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/10/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL
BTEX	OXYGENATES	0	UNKNOWN	0	UNKNOWN	

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
3/19/2003 − JZ/DO: The caller was hired for a site subsurface investigation for property re−finance. Soil and GW samples was analyzed with EPA method 8260 and found contaminations. This site is currently a warehouse. There is no tank evidence. It was a dry cleaner at this location in history. There is no dry cleanner solvents found during the site assessment. Next property is a DEP's repair shop. DO has requested site assessment report snet to Sangesland.

The current owner info: Fratelli Ricatto Developement, 391 Leonard Street, Brooklyn, NY 11211−1301.

11/15/05 called John Schretzmayer and left message to call me. J Lister

11/17/05 spoke with John Schretzmayer (516−658−5304) and he will send work plan. J Lister

10/30/06 Reassigned from Lister to Sun. (MS)

11/27/06 Reviewed Groundwater Monitoring and Sampling Plan dated 10/11/06 and submitted by Hydro Tech Environmental (contact: Mark E. Robbins phone: 631−462−5866). Faxed letter report on 11/27/06 requiring the following: "It must be demonstrated that groundwater contaminant concentrations are decreasing to Groundwater Quality Standards in a reasonable time frame. Therefore, the Department requires that one (1) more round of groundwater monitoring and sampling be performed as well as an Exposure Assessment/Sensitive Receptor Survey, before the above referenced spill can be considered for closure."
VOC contamination is only observed in 2 of the 5 wells onsite and are obviously decreasing over time, however one more sampling event will confirm natural attenuation.(JS/MS)

2/12/07: NYSDEC received Exposure Assessment Report and latest groundwater analytical results on 2/9/07 and is reviewing. (JS/MS)

2/14/2007: Upon receipt and review of the Exposure Assessment Report as well as the results of the latest groundwater sampling event for this site, submitted by Hydro Tech, this spill site has been closed and a No Further Action letter has been sent to the property owner and consultant. The following is a brief summary of factors supporting this action. As stated in the Report; the source of contamination has been removed, no significat receptors or exposure pathways are present at the site, and a 90% decrease in overall VOC concentration has been observed over time. Only limited VOC contamination remains (1,3,5 and 1,2,4

Trimethylbenzene= 8.57 and 6.7 ug/L, respectively) in one monitoring well. No further action is needed, spill case is closed. (JS/MS)

Map Identification Number 69 **PAINT FACTORY** **Spill Number: 0507793** **Close Date: 09/29/2005**
415 GRAHAM AVE BROOKLYN, NY TT−Id: 520A−0040−736

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 770 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: FIREFIGHTER FENDMAN − PAINT FACTORY
Spiller Phone: (917) 769−0483
Notifier Type: Fire Department
Notifier Name: FIREFIGHTTER FENDAMAN
Notifier Phone: (917) 769−0483
Caller Name: FIREFIGHTTER FENDAMAN
Caller Agency: FIRE DEPT NY
Caller Phone: (917) 769−0483
DEC Investigator: JXZHAO
Contact for more spill info: FIREFIGHTER FENDMAN
Contact Person Phone: (917) 769−0483

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/29/2005		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PAINT	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

PAINT FACTORY IS BEING DEMOLISHED AND PAINT IS ALL OVER THE GROUND: FIRE DEPT ON SCENE: LOW LAYING GROUND. NEAR STREAMS

DEC Investigator Remarks:

duplicate spill − cross ref with 0505877 − managed by Zhao

Map Identification Number 70 **704 LORIMER ST** **Spill Number: 0106834** **Close Date: 09/25/2003**
704 LORIMER ST BROOKLYN, NY TT−Id: 520A−0047−905

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 825 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNK
Spiller Phone:
Notifier Type: Federal Government
Notifier Name: ELIZABETH CARRANO
Notifier Phone: (718) 388−9680
Caller Name: JOHN WITKOWSKI
Caller Agency: US EPA
Caller Phone: (732) 548−8730
DEC Investigator: MXTIPPLE
Contact for more spill info: MRS CARRANO
Contact Person Phone: (718) 388−9680

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/01/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

Caller states air around her home smells like teargas. She has had exposure to this and recognized the odor

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
10/02 REFERRED TO THE AIR UNIT

Map Identification Number 71 **Spill Number: 9909588** **Close Date: 03/15/2004**
354 LEONARD ST BROOKLYN, NY TT−Id: 520A−0048−943

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 852 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:		Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MARYANNE GRAPPONE	Notifier Phone:	(718) 389−9187
Caller Name:	MARYANNE GRAPPONE	Caller Agency:	CITIZEN	Caller Phone:	(718) 389−9187
DEC Investigator:	RWAUSTIN	Contact for more spill info:	MARYANN GRAPPONE	Contact Person Phone:	(718) 389−9187

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/07/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

ON GOING COMPLAINT − MARK TIBBE IS AWARE OF THE PROBLEM − NEIGHBOR MUST HAVE GOTTEN A DELIVERY RECENTLY − SEVERE OIL ODOR IN THE HOUSE

REQ A CALL FROM DEC

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"
3/15/04 − AUSTIN − SEWER SPILL FROM OVER 4 YRS. AGO − CLOSED − ORIG. ASSIGNED TO COMENALE − END

Map Identification Number 72 **Spill Number: 9814583** **Close Date: 02/19/2003**

354 LEONARD ST BROOKLYN, NY TT−Id: 520A−0048−942

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 852 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	348 OR 350 LEONARD ST	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MARYANN GRAPPONE	Notifier Phone:	(718) 389−9187
Caller Name:	MARYANN GRAPPONE	Caller Agency:	HOMEOWNER	Caller Phone:	(718) 389−9187
DEC Investigator:	COMENALE	Contact for more spill info:	MARYANN GRAPPONE	Contact Person Phone:	(718) 389−9187

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.

Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/07/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT WHENEVER NEIGHBORS HAVE OIL DELIVERED −HER HOUSE

BECOMES FILLED WITH OIL FUMES AND THEY IRRITATE HER THROAT

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 73 **INSIDE MCCARREN POOL** **Spill Number: 0907892** **Close Date: 07/02/2012**

BAYARD AND LORIMER ST. BROOKLYN, NY TT−Id: 520A−0233−017

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 858 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: BAYARD ST / LORIMER ST
Revised zip code: 11211

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	vszhune	Contact for more spill info:	CALLER	Contact Person Phone:	

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/13/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

Soil borrings determined soil and contamination.Remidiation in progress.

DEC Investigator Remarks:

10/14/09−Zhune called Michelle Lortz from Westin Solutions (732)417−5821. Left a message

10/28/09− Michelle called and said the City of New York is renovating the pool located on Bayard and Lorimer St. Westin Solutions performed a Phase II. The report will be send next month.

Project Manager Barry Schaartc 718−391−1333 with New York City Department of design and Construction.

11/13/09−Zhune spoke to Barry from DDC. He said Westin Solution is one of their contractor. They are doing Environmental soil Investigation(Phase II) at this site. The NYSParks owns this site. They want to rivise the use of the pool in the property.
Westin Solution found mild contamination around the UST Tank. The report will be sent in 3 weeks.

12/06/11− Jason Hayes called to say that they removed the 2500 gallons and took endpoint samples. They also abondoned in place the 10000 gallons tank. Report is being reviewed by Marty Rowland.

06/18/12− Phase II submitted by Weston Solutions of New York dated December 1,2009
The following conclusions were presented:

Underground Storage Area #1 (10000 −Galloons UST).− the soil and groundwater analytical results did not identified evidence of an impact to soil and groundwater associated with the 10000 gallon oil UST(UST Area 1). As per the report the elevated TAL metals in groundwater (GW−1) collected to investigate this UST are atributable to the presence of fill.

Underground Storage Area #2 (2500 −Galloons UST).−
Elevated concentrations of VOCs Toluene(34 ug/l), SVOCs (benzo (a) anthracene, (benzo (b) fluoranthene, benzo (K) fluoranthene, Chrysene, Fluoranhtene, Indeno(1,22,3−cd)pyrene and pyrene) and metals (antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, mercury, nickel, selenium, sodium, and zinc were detected in groundwater sample (GW−04) collected to investigate the former 2500 gallon UST (UST Area 2).

Propose Excavation Area #1.− The soil analytical results of the samples collected from borings SB−09, SB−10, SB−11, SB−12, SB−13,

SB−14, SB−15, SB−16, SB−17 and SB−18 in the proposed excavation Area #1 y Area #2 identified the following SVOCs ((benzo (a) anthracene, benzo (a) pyrene, benzo (b)fluoranthene,benzo (k)fluoranthene, chrysene, dibenzo (a,h) anthracene and Indeno(1,22,3−cd) and the following metals (arsenic, barium, cadmium, calcium, chromium, copper, lead, mercury, magnesium, nickel and zinc) at concentration eceeding the limit acceptable.

Elevated concetrations of SVOCs ((benzo (b) fluoranthene, benzo (K) fluoranthene, benzo (k)fluoranthene, Chrysene, Fluoranhtene, Indeno(1,22,3−cd)pyrene and pyrene and metals(antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, mercury, nickel, selenium, sodium, and zinc) were detected in the groundwater sample collected from GW−5 (Excavation Area 2) at concentration exceeding the standards.

In Filled pool Area. The soil analytical results of the samples collected from borings SB−19 and SB−20 in the filled pool area identified SVOCs, metals at concentrations exceeding the standards and the PBC Aroclor 1254 at 1.4 mg/kg in sample SB−19 and the Aroclor 1254 at 1.8 mg/kg in sample SB−20.

11/17/10− Langan Engineering sent the spill Investigation report dated 11/15/10.
Langan Conducted investigation to delineate the extent of groundwater contamination in the underground Storage Area #2. The field investigaton included geophysical survey, nine borings (EB−1 through EB−9 and the installation of three temporary monitoring wells (MW1, MW5 and MW7).

The report found that the 2500 UST could not be found by the geophysical survey in the underground storage area #2. Petroleum impacts including staining and odors were identified in borings EB−1, EB−2, EB−3, EB−5, EB−6, EB−8, EB−9. VOC's in groundwater were not detected in samples collected from monitoring wells MW−1, MW−5, MW−7.

05/15/11− Langan Engineering sent the Suplemental Subsurface Investigation Report dated 05/12/11.
Langan conducted investigation in the lines in the underground storage area #1 and #2.

Four borings (PB−1 through PB−4 were installed to investigate the lines in the 10000−gallon UST;. No VOCs were detected in any of the samples collected from sample PB−1 through PB−4.
SVOC's (Benzo a anthracene, Benzo a pyrene, naphthalene) were detected in sample PB−1(7−9 feet) and SVOC's (Benzo (a)anthracene, Benzo (a)pyrene, benzo (b) fluoranthene,benzo (k) fluoranthene and Chrysene) were detected in sample PB−4(5−7 feet) at concentration exceeding the standard.

Eight soil borings (PB−5 thrugh PB−12 were installed to investigate the lines in the area of the 2500−gallon UST. No VOC's were detected in any of the soil samples collected from boring PB−5 through PB−12. SVOCs (Benzo a anthracene, Benzo (a)pyrene. benzo (b) fluoranthene, benzo (k) fluoranthene and Chrysene) were detected in soil samples collected from borings PB−9 (13−15 feet), PB−19(8−10 feet), PB−10(12−14 feet), PB−11A(13−14 feet), PB12(8−10 feet), PB−12(12−14 feet).

VOCs 1,2,4,5 tetrametylbenzene were detected in groundwater sample collected from TMW−3 and TMW−4 and Benzene and naphthalene were found in groundwater sample collected from TMW−5 in concentrations exceeding the limit.

12/17/2011− Langan Engineering sent the UST and Spill Closure report dated December 13,2011.
Six enpoint samples were collected following the excavation and removal of the 2500−gallon UST. sample were collected from each sidewall and two samples were collected from the bottom of the excavation. The soil analitycal result indicated no VOC's exceedances, SVOCs exceedances were found in two of the six samples.

The 10000−gallon UST was abondoned in−place. No sample were collected since the subsurface around the tank has been characterized by previous investigations and no evidence of contamination has been identified.

06/05/2012− Langan Engineering sent the groundwater confirmation Sampling Report dated 06/01/2012.
Four confirmation grundwater samples around the former 2500−gallon UST were collected from four borings (GW−A through GW−D). The ground water analytical results indicated no VOCS found above the limit and SVOCs exceedances in the groudwater included benzo(b)fluoranthene, benzo (k)fluoranthene and Chrysene all of the four groundwater samples and indeno (1,2,3−cd0pyrene in three of the groundwater samples (GW−B, GW−C, GW−D). As per the report the exceedance of SVOC's in groudwater are atributable to the presence of fill. Spill Closed.

Map Identification Number 74 **PRIVATE DWELLING** **Spill Number: 0911958** **Close Date: 02/12/2010**
184 RICHARDSON STREET BROOKLYN, NY TT−Id: 520A−0248−308

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 861 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	ALEXANDRA SUMNER − UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	HRAHMED	Contact for more spill info:	ALEXANDRA SUMNER	Contact Person Phone:	(917) 386−8566

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/11/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	INDOOR AIR

Caller Remarks:

STRONG ODOR OF PETROLEUM PRODUCTS NOTICED INSIDE HOME SINCE LAST WEDNESDAY (ON THAT DAY THE ODOR WAS STRONG ENOUGH TO FORCE EVERYONE OUT OF THE BUILDING) AND HAS SINCE DECOME LESS PROMINENT BUT STILL EXISTS. NEIGBORS ACROSS THE STREET ALSO NOTICE THE ODOR, OIL COMPNAY HAS DONE AN INSPECTION AND HAS FOUND NO LEAKS INSIDE THE HOME. CALLER CLAIMS DEC INSPECTED PREMISES ON MONDAY OF THIS WEEK ALREADY (?)

DEC Investigator Remarks:

02/12/10−HRAHMED−Spoke to Ms Sumner. This is a duplicate spill of spill#0911853. As per her, the odor is less than the last time DEC investigated, but it is still there. Since the odor is musty or sewer type, I suggested her to consult with DEP to check if they have any problem in their main sewer line in that area or with a plumber to check that the sewer trap in the house is working and there is no sewer leak in the house. She said she will do that. She was referencing the meeker ave plume investigation and asking if her house can be included in the investigation. She told she will contact dave Harrington to check if he can do an investigation in her house as part of Meeker Ave plume investigation.

Based on the fact that there was no visible evidence of oil spill in her basement (checked the sump pump, drain cover, oil tank, boiler, fill port and vent line) and noticed no petroleum type of odor in her house during the last investigation on 02/08/10, the case is closed.

Map Identification Number 75 **SUMNER RESIDENCE** **Spill Number: 0911853** **Close Date: 02/10/2010**

184 RICHARDSON ST BROOKLYN, NY TT−Id: 520A−0248−305

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 861 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	ALEXANDRA SUMNER − ALEXANDRA SUMNER	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	HRAHMED	Contact for more spill info:	ALEXANDRA SUMNER	Contact Person Phone:	(917) 386−8586

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/03/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

ODOR COMING FROM THE SEWER AND WELL IN THE BASEMENT. FUEL COMPANY CANNOT FIND THE SOURCE.FD WAS ON SCENE; UNKNOWN ODOR. CALLER STATES EVERY TIME IT RAINS THE WATER FROM THE NEIGHBORHOOD COMES INTO THE SEWER.

DEC Investigator Remarks:

02/8/10−Vought−Duty desk officer. DEC Austin received call from Ms. Sumner (via NYSDOH Dawn Hettrick). Ms. Sumner indicated that odors began approximately three days ago and were petroleum odors that were coming from her sewer trap. She noted that neighbor across Richardson Street also observed petroleum odors as well. She had oil company inspect her 275−gallon #2 fuel oil AST and they noted no current leakage. DEC Ahmed (runner) to perform site visit.

02/08/10−HRAHMED−Responded to the site as Daytime Runner. Met with houseowner Ms Alexandra Sumner (917 386 8586). As per her, she has been noticing strong petroleum type odor in her basement and hallway since 02/04/10. It is becoming less, but today its more like sewer odor. DEP inspector Emmanuel (718 923 2716) was at the scene. DEP received a odor complaint from resident of 177 Richardson St. But he didn’t have access to that address at that time. Went to basement with Alexandra and Emmanuel. Noticed musty odor in the basement. Checked the sump pump area, it was dry. Checked the drainage pipe, noticed no sheen. Checked the Oil tank and the burner, noticed no sign of leakage. Suggested Alexandra to ventilate the place. Spoke to the resident of 175 Richardson St. As per him he didn’t notice any odor in his residense.

Since there is no evidence to oil spill nor petroleum like odor, this case is closed.

Map Identification Number 76 **OLD PAINT FACTORY** **Spill Number: 0505877** **Close Date: 06/20/2007**
133 JACKSON AVE BROOKLYN, NY TT−Id: 520A−0051−725

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 870 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: 133 JACKSON ST
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: MICHEAL FREEMAN − OLD PAINT FACTORY
Spiller Phone: (646) 366−0881
Notifier Type: Other
Notifier Name: MICHEAL FREEMAN
Notifier Phone: (646) 366−0881
Caller Name: MICHEAL FREEMAN
Caller Agency: LAW OFFICE
Caller Phone: (646) 366−0881
DEC Investigator: lxzielin
Contact for more spill info: MICHEAL FREEMAN
Contact Person Phone: (646) 366−0881

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/12/2005		OTHER	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

A SPILL WAS CALLED IN ON MAY 17TH: AND WAS CLOSED: SPILL # 0501932: DEC OFFICER RANDY AUSTIN SAID IT NEEDS TO BE CALLED INTO SPILL DIVISION: FOUND HYDROCARBONS AT LOCATION; CLIENT WOULD LIKE TO CLEAN UP QUICKLEY:

DEC Investigator Remarks:

06−19−07 − Zielinski
The May 2007 Site Closure Report(eDocs), prepared by Environmental Business Consultants, provides information on the status of the site contamination. After tanks were removed, contaminated soil excavated, and chemical treatment conducted, endpoint samples were taken in the western part of the site(previously, the department asserted that no further action was required in the eastern part of the property). The analyses of all five collected samples revealed that at location SPW1 tert−butylbenzene was 2,000 ppb(the limit is 1,000 ppb)and
4−isopropyltoluene was 26,000 ppb (no limit in RSCO). Other analyzed constituents were within the RSCO limits. Presented in the report analyses of groundwater show significant reduction in contaminants' concentration after the chemical oxidant treatment. In downgradient located wells, exceedances include
acetone: 290 ppm in at MW−5, 420 ppm at M−19, 170 ppm at MW−20;
benzene: 6.2 ppm at MW−5, 5.4 ppm at MW−19;
bromomethane; 10 ppm at MW−5;
toluene : 47 ppm at MW−5, 180 ppm at MW−17, 11 ppm at MW−19, 35 ppm at MW−20;
isopropylebenzene: 54 ppm at MW−19,
m,p−xylene: 38 ppm at MW−17, 14 ppm at MW−19;

methylene chloride: 53 ppm at MW−17, 12 ppm at MW−20, 9.6
o−xylene: 5.6 ppm at MW−17;
The case is closed.

11/20/06 − Zielinski
Contamination from former paint manufacturing operations was found in the western half of the property. By December 2005, about 3,500 tons of contaminated soil was removed from the site. Later, dry chemical oxidant was added to the base of the excavation to attenuate residual contamination. With one exception (tertbutylbenzene in the northwest corner of the site), endpoint samples showed that these activities had been effective. Subsequently, completed on January 2006, an activated injection program was implemented at 37 locations. Between April and May of 2006, about 500 tons of impacted soil was removed from the northwest corner; 2,000 gallons of total fluids were extracted; spot treatment injection was conducted in the northwestern corner and the center of the site.
In order to complete the remediation of the site, Environmental Business Consultants (EBC), the company conducting remediation activities at the site, propose that oxidant injections will be conducted in three wells in the rear yard of the site. Laboratory analyzes will determine whether additional oxidant treatment is needed.

03−21−06 − Zielinski
By December 2005, about 3,500 tons of contaminated soil was remowed from the western part of the property. Later, on January 2006, an activated oxidant injection program, consisted of 37 injection locations in the western part of the property, was completed. The March 16 sampling showed a significant reduction in VOC contamination. To complete remediation process, additional soil from vicinity of MW 5 will be remowed and a vapor barrier will be installed. also, the groundwater monitoring at serval locations will be continued: In her April 4, 2006, e−mail to Charles Sosik, PWGS project manager, Jie Zhao had no objection to construction at the west part of the property−− she required to replace well # 15 for a long−time montoring purpose.

02/10/06 − Zielinski
On February 2, 2006, a 30−mil HDPE vapor barrier was installed, and reinforcing steel was placed above the barrier.

8/12/05 − Austin − This location had been previously called in due to the discovery of "paint waste" (spill #0501932). In conversations that I had with two consultants about that report, I directed them to the Brownsfield program. Recently, it was discovered that this was a former CBS facility that had closed out its tanks in 1998 (#2−000171, listed as 135 Jackson St.). Therefore, we are assigning this spill report to Jie Zhao for remedial review, as per Pts 596.6 and 598.10.

9/8/2005 − jz: Site Investigation Report was received on 8/23/2005. Remedial Action Plan was received on 8/26/2005. Zhao spoke to Mr. Charles B. Sosik, Project Manager from P W Grosser today. Excavate of contaminated soil to groundwater level (about 15 ft below grade) is approved by DEC. Detailed information about ORC application is required before apply which includes possible assessment of groundwater parameters. Soil excavation may start any time.

Map Identification Number 77 **CONSTRUCTION SITE** **Spill Number: 0501932** **Close Date: 05/20/2005**
133 JACKSON AVE BROOKLYN, NY TT−Id: 520A−0051−726

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 870 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: 133 JACKSON ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN NAME − GLOSS FLOW CORP.
Spiller Phone:
Notifier Type: Other
Notifier Name: LAB RESULTS
Notifier Phone:
Caller Name: DAVID YUDELSON
Caller Agency: ATTORNEY
Caller Phone: (917) 295−6449
DEC Investigator: RWAUSTIN
Contact for more spill info: DAVID YUDELSON
Contact Person Phone: (917) 295−6449

Category: Investigation indicates there was no spill.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/17/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

historical spill from an old paint factory. trimethyl benzene and napthalene found above DEC limits. The new owner of the property will be contacting someone for clean up.

DEC Investigator Remarks:

5/20/05 − Austin − Spoke with Bill Conroy of Conroy Environmental. He indicated that paint waste contamination had been found in the soil of this former paint plant. He indicated that the site may have come under USEPA action in its prior use.
I explained that since this was not a petroleum spill, it did not have to be called into the Spills Hotline. I also indicated in the phone call that he should contact Dan Walsh of the Region's Haz. Waste Remed. Section, for information pertaining to the DEC's Brownsfield program, after he contacts the USEPA to determine their role in oversight of any remediation work. The spill was closed, due to this not being a spill event or involving petroleum. − end

6/6/05 − Austin − Spoke with Mark Robbins of Hydrotech 631−462−5866). I explained to him what the status was of this particular spill report. He indicated that he would go ahead and remove the paint contaminated material, and take post−ex samples to document proper removal, after chemically characterizing the paint waste. He would keep the data for documentation purposes. − end

8/12/05 − Austin − Recnt info came to light that this was a former CBS facility. It received another spill report # (#0505877),

and will be assigned to staff for review.

Map Identification Number 78 **BRONX QUEENS EXPRESSWAY** **Spill Number: 9902395** **Close Date: 06/02/1999**
EXIT 33 MCGUINNESS BLVD BROOKLYN, NY TT−Id: 520A−0051−764

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 872 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: EXIT 33 MCGUINESS BLVD
Revised zip code: 11222

Source of Spill: COMMERCIAL VEHICLE
Notifier Type: Responsible Party
Caller Name: KATHY RICHARDS
DEC Investigator: SMMARTIN

Spiller: DIANE BAER − CANNON EXPRESS
Notifier Name: CANNON EXPRESS
Caller Agency: CANNON EXPRESS
Contact for more spill info: DIANA BAER

Spiller Phone: (800) 864−8400
Notifier Phone:
Caller Phone: (978) 897−6461
Contact Person Phone: (800) 846−8400

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/02/1999		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	30.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TRUCK RAN OVER OBJECT THAT RUPTURED SADDLE TANK−FIRE DEPT ON SCENE AND CONTAINED SPILL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
REFERRED TO NYCFD.

Map Identification Number 79 **BROOKLYN/QUEENS EXPWY** **Spill Number: 9608808** **Close Date: 02/24/2003**
AND MCGINNIS BLVD BROOKLYN, NY TT−Id: 520A−0051−760

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 872 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: BROOKLYN−QUEENS EXWY / MC GUINESS BLVD S
Revised zip code: 11222

Source of Spill: COMMERCIAL VEHICLE
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: FIRE HAZMAT
Notifier Phone: (917) 769−0483
Caller Name: MS BAILEY
Caller Agency: DEP
Caller Phone: (718) 595−6700
DEC Investigator: CAENGELH
Contact for more spill info: MR REAGAN
Contact Person Phone: (917) 769−0483

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/16/1996		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

saddle tank fell from unknown vehicle and was abandoned at site

fuel has run into sewer − caller did not know what action is being

taken at this time

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
2/24/2003 − Closed Due To The Nature / Extent Of The Spill Report

Map Identification Number 80 **IN ROADWAY** **Spill Number: 0308472** **Close Date: 11/13/2003**

BROOKLYN QUEENS EXPRESSWAY @ MCGUINNESS BLVD BROOKLYN, NY TT−Id: 520A−0051−762

BQE @ MCGUINNESS BLVD

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 872 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: I 278 / MCGUINNES BLVD
Revised zip code: UNKNOWN

Source of Spill: UNKNOWN
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Fire Department
Notifier Name: F.F. KREGLER
Notifier Phone: (917) 769−0483
Caller Name: F.F. KREGLER
Caller Agency: FDNY
Caller Phone: (917) 769−0483
DEC Investigator: CESAWYER
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/11/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

unk cause − unk source − on roadway and also did get into sewer

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"
Spill was reported to DEP because of sewer contact.

Sawyer drove past the site on his way to another spill.

Closed

Map Identification Number 81 **MANHOLE 55946B** **Spill Number: 9901924** **Close Date: 01/29/2004**
HUMBOLT ST MCGUINESS ST BROOKLYN, NY TT−Id: 520A−0043−054

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 883 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: HUMBOLDT ST / MC GUINNESS BLVD S
Revised zip code: 11222

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: FRANK MASSERIA − MANHOLE 55946B
Spiller Phone: (212) 580−6763
Notifier Type: Responsible Party
Notifier Name: MS MCQUEEN
Notifier Phone: (718) 204−4478
Caller Name: FRANK MASSERIA
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info: FRANK MASSERIA
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/19/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

spill in manhole approx 2 gal spilled contained to hole

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis no. 124978:

approx 2000 gallons of water and approx 2 gallons of oil. All contained in manhole. Chem Lab was notified and will come take samples.

X Removed/recovered liquid.

X Removed visible traces of oil.

Cleanup completed on Date: 5/24/99 at 14:00

Map Identification Number 82 **RESIDENCE** **Spill Number: 0811948** **Close Date: 02/18/2009**
684 LORIMER ST BROOKLYN, NY TT−Id: 520A−0226−081

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 929 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: hrpatel
Contact for more spill info: ANTHONY MARIANO
Contact Person Phone: (516) 379−1500

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/02/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

CALLER STATES THAT A WATER MAIN BROKE RESULTING IN HIS BASEMENT BEING FLOODED. THERE IS A SHEEN ON THE WATER, THE SUMP WAS IMPACTED.

DEC Investigator Remarks:

2 − 275 gal tanks near the front of the building basement (probably NOT the source of the problem)
Another building behind this one is vacant and had a water main break. Water flooded across the property line into this building. The basement was pumped out. Then they dug a hole in the floor near the rear of the basement to install a sump pump. The next day a mix of water with an oil sheen campe up thorugh the floor.
Anthony Mariano from Milro will schedule a site visit with Ryan Piper in the next couple of days.

02/12/09−Hiralkumar Patel. spoke with Anthony at Milro. he mentioned that due to water main brake, basement at the subject site was flooded with water and had sheen on it. FDNY Hazmat and DEP responded to the site. after initial cleanup, sump pumps set up in couple of rooms in basement. lateron sheen was observed on water in sump in bedroom which is adjacent to boiler room.

Anthony also mentioned that there is a vacant building behind subject site which was gas station in past and owner suspect that oil coming from this vacant building.

C.F.A., Inc. **building owner**
2977 Mandalay Beach
Wantagh, New York 11793
Attn.: Carmine Infante **President**
PH. (516) 779−2534 (C)
email: italym31@aol.com

spoke with Mr. Infante. he baught building in 2003 and site has two 275 gal #2 oil ASTs in basement. tanks are located towards front end of building and oily water coming through foundation in back of the basement. Mr. Infante mentioned that there is an abandoned gas station (64 Frost Street, Brooklyn) behind his building and suspect leak at the gas station.

visited site at 11 AM. met Carmine. found odors and sheen on water inside sump located in bedroom. no odors noticed in other part of basement. basement apartmet is not continuously occupied as Carmine lives in this basement apartment for couple of days in month. boiler room located behind bedroom. one sump located in boiler room. two other sumps located in room behind bathroom, on north side of boiler room. supply line for tank system at the site, runs aboveground and didn't found any spill in visible areas. no spill noticed under tank location. Carmine removed concrete and some soils from boiler room as was impacted with contaminated water. removed soil stockpiled in backyard of the building, which is behind abandoned gas station site.

asked Carmine to backfill sumps to avoid any odors inside building. Carmine choose to backfill sumps in bedroom and in boiler room. will keep sumps in adjacent room to the boiler room. also asked Carmine to test his tank system to confirm tightness of the system.

there is another commercial property (297 Meeker ave/56 Frost Street) between the subject site and the gas station site.

inspected gas station site also. found excavated area in front of on−site stores. this excavated area could be location of previous gasoline/diesel tanks. also found signs of borings on concrete surface in front of stores. gas station located at 64−66 Frost Street at the intersection of Frost street and Meeker Ave.

owner of abandoned gas station site:

Paul Joffe
Paul's LLC
318 Grand Street
Brooklyn, NY 11211
Ph. (718) 486−6916

according to building department permit record, Mr. Joffe applied for permit to convert service station into dinning location.

found two spill cases reported at the gas station site.

1. 9601530: tank test failure reported on 04/30/1996. case still open.
2. 9806871: spill called in by citizen on 09/04/1998 about abandoned tanks; tipped over. spill closed on 02/26/2003.

received call from Mr. Carter from Mr. Joffe's office. informed him about situation and asked him to provide all documents regarding spill case at the gas station site.

Nathan Carter
Ph. (718) 486−6804

02/18/09−Hiralkumar Patel. received fax from Carmine with letter from Century Utility Systems, Inc, who tested two 275 gal AST systems and found tanks tight. spoke with Carmine. he mentioned that he will keep sump in bedroom but will cover it and seal it from top. asked Carmine to seal sump property to avoid any odors inside building.

based on result of tank test and suspecting upgradient spill at abandoned gas station, case closed. refer to spill #: 9601530.

03/13/09−Hiralkumar Patel. spoke with Carmine. told him that groundwater under gas station is not flowing towards his property so whatever sheen was observed on water in sump, could be coming from somewhere else. he mentioned that no more sheen observed in sump. suggest him to close sump to prevent flooding in basement with contaminated water.

Map Identification Number 83 **FORMER GAS** **Spill Number: 0710898** **Close Date: 01/15/2008**
550 HUMBOLT ST BROOKLYN, NY TT−Id: 520A−0212−613

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 996 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 550 HUMBOLDT ST
Revised zip code: 11222

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CHRISTINE CAMARDELLA − FORMER GAS
Spiller Phone: (631) 218−0612
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: bkfalvey
Contact for more spill info: CHRISTINE CAMARDELLA
Contact Person Phone: (631) 218−0612

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/15/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

MONITORING WELLS FOUND CONTAMINATED SOIL: DEC HAS BEEN NOTIFIED:

DEC Investigator Remarks:

1/15/08 Spoke to Christine Camardella of Geologic Services Corp. (631)218−0612. The contaminated soil was found during the drilling of monitor wells. The drilling was part of the remediation project for spill 9007766. According to C. Camardella, D. Harrington, project manager for 9007766, is aware of this spill (0710898). I left message for D. Harrington informing him of the situation. No further action regarding 0710898 based on the information provided up to this point. bf

Map Identification Number 84 **MONITORING WELL** **Spill Number: 0508671** **Close Date: 12/22/2006**

550 HUMBOLDT STREET BROOKLYN, NY TT−Id: 520A−0051−766

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 996 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 550 HUMBOLDT ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name: CHRISTINE CAMARDELLA
DEC Investigator: DKHARRIN

Spiller: UNKNOWN
Notifier Name: CHRISTINE CAMARDELLA
Caller Agency: GEOLOGIC SERVICES CORP
Contact for more spill info: CHRISTINE CAMARDELLA

Spiller Phone:
Notifier Phone: (631) 218−0612
Caller Phone: (631) 218−0612
Contact Person Phone: (631) 218−0612

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/19/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

notified dave harrington of this spill, sampling shows contamination.

DEC Investigator Remarks:

12/22/2006: Consolidated under spill no. 90−07766. (Harrington)

Map Identification Number 85 **CONSTRUCTION SITE** **Spill Number: 0401691** **Close Date: 07/11/2005**
474 LEONARD STREET BROOKLYN, NY TT−Id: 520A−0040−516

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1018 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Citizen
Caller Name: ROLPH CARL
DEC Investigator: JMKRIMGO

Spiller: ROLPH CARL − MANHATTEN AVE/
Notifier Name: ROLPH CARL
Caller Agency: CITIZEN
Contact for more spill info: ROLPH CARL

Spiller Phone: (718) 383−7489
Notifier Phone: (718) 383−7489
Caller Phone: (718) 383−7489
Contact Person Phone: (718) 383−7489

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/14/2004		OTHER	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	POUNDS	0	POUNDS	GROUNDWATER

Caller Remarks:

LOT & BLOCK IS 2698 & 1: DIGGING AT THIS SITE AND CALLER STATES, THAT DARK, OILY SMELLING, THICK SUBSATNCE IS THERE AND IS CONCERNED, CLOSE TO A PARK:

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"
Citizen gave a contact telephone number that was on a sign at the site: 718−641−1098. Sangesland called this number and spoke to a woman who said she was the managing agent for the site. She was given the DEC Hotline number and told to call in and to provide all of the contact info for the property owner and environmental company who is on line to do the work.

5/19/2004 Sangesland received a call from Bazel Sagos of Riverkeepers (845−424−4149 ext.230) He asked for a status update on the site and wanted to know what work was going to be required by the property developer to clean the site.

5/20/04 − Sawyer − Responded to the site on 5/19 and met Mr. John Sindone who works for the owner. We walked all over the excavation and did not find any indication of contamination. I looked at the phase one and II for the site done by Don Carlo Environmental and checked with PTC who had pumped out water from in the excavation. PTC said they remove 800 gallons of 95% water from the pit on the 5/17, the rest was soil and an oil sheen.

6/09/04 − Sawyer − Received copies of the Phase I & II as well as the tank closure report for the above property. There is no indication of finally removing elevated levels of semi volatiles that came back high with from pseudo endpoint samples. I called up Danny from Don Carlo and I am having him get me 1) Clean end point Samples, 2) Information on disposal of dirt from site, and 3) Groundwater samples to make sure of water quality there.

7/11/05. J.Krimgold reviewed the Subsurface Remediation Report submitted by Don Carlo Environmental Services, Inc on June 2, 2005. According to the report remediation of this site has been completed. Post excavation end−point samples bellow TAGM levels. NFA letter.

Map Identification Number 86 **EXCAVATION** **Spill Number: 0508101** **Close Date: 10/06/2005**

140 JACKSON STREET BROOKLYN, NY TT−Id: 520A−0040−740

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1025 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller:
Spiller Phone:
Notifier Type: Fire Department
Notifier Name: BROOKLYN FIRE DEPT #216
Notifier Phone: (718) 636−1702
Caller Name: BROOKLYN FIRE DEPT #216
Caller Agency:
Caller Phone: (718) 636−1702
DEC Investigator: SMSANGES
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/06/2005		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

AT THIS LOCATION THEY ARE REMOVING CONTAMINATED SOIL AND PUTTING IN DUMP TRUCKS AND TAKING AWAY: CALLER WANTS TO KNOW IF IT IS

LEGAL AND IF THEY NEED OR HAVE PERMITS:

DEC Investigator Remarks:

ongoing case managed by Jie Zhao

Problem is in a vacant lot ACROSS THE STREET from 140 Jackson Street.

Map Identification Number 87 **GREEN POINT CAR WASH, INC.** **Spill Number: 0705867** **Close Date: 09/13/2007**

(AKA AUTOCLEAN CARWASH, INC.) BROOKLYN, NY TT−Id: 520A−0050−869
103 ENGERT AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 1028 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 103 ENGERT AVE
Revised zip code: 11222

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: HELEN ESPINOSA − GREEN POINT CAR WASH, INC. (A
Spiller Phone: (917) 577−6080
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rvketani
Contact for more spill info: HELEN ESPINOSA
Contact Person Phone: (917) 577−6080

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/23/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

MATERIAL SEEMS TO BE LEAKING FROM CAR WASH;

DEC Investigator Remarks:

8/23/07 − Raphael Ketani. I called up Sean Donohue of the NYC DEP (718) 595−5000. I asked him about the circumstances regarding the spill. He said that Helen Espinosa (917) 577−6080 had called him saying that there was spilled diesel fuel in her backyard. She told him that it spilled onto the property of the neighboring car wash. However, he didn't have any information regarding how much had spilled.

I visited the site shortly after talking to Mr. Donohue. A person at the car wash (which fronts on McGinnis Boulevard and exits on Engert Avenue) showed me the spilled oil on the car wash property. I saw an elongated stain of about 2 feet wide by 6 feet long. I could smell oil. She showed me where the oil had come from. This was the backyard of 105 Engert Avenue where a used car dealership stored its cars. I could see several drums through the chain link fence.

The car dealership was CDM Auto Sales, Inc., 109 Engert Avenue, Brooklyn, NY, (718) 683−7277. I called up the owner of the dealership, Charles DeMarino. He said that the drums aren't on his property. He said they are soap and other material for the car wash. I told him they were in his backyard. He said that he rented the backyard, but not all the way back. He said that the yard with the cars that are all the way back and the drums are part of the property owned by the same person who owns the apartment building and the property the car wash in on.

I knocked on the door of the apartment on the first floor which has access to the backyard. The woman let me through her kitchen and to the backyard. I saw that the drums contained car wash liquids. There was a strong odor of diesel fuel and there was a half full white drum containing some kind of liquid. The ground area around the drums was wet and odoress. I took a number of pictures of the backyard, the staining and the drums.

I looked up the owner of the property for the apartment building and the car wash. This is block and lot 2701 and 53. According to NYC Property Tax, 105 and 107 Engert Avenue are owned by the same party, Green Point Real Estate Corp., 86 Monitor Street, Brooklyn, 11222−4751. The car wash is Autoclean Carwash, Inc., and is at 103 Engert Avenue, (718)782−5592. However, this address is only a street address/mailing address. It does not appear in the property databases. So it's probably really part of 105 Engert. I called up the phone number and Young Yu answered (aka Boung Young). He said that he is the owner of the Green Poin Car Wash at 103 Engert Avenue. I told him that 3 drums of material are sitting in the backyard and that they are the property of the car wash as they have the names of car wash liquids on them. He said they are not his and he disavowed any ownership of them strongly.

8/24/07 − Raphael Ketani. I sent a CSL to both Green Point Real Estate and the Green Point Car Wash.

8/27/07 − Raphael Ketani. Emory, a worker at the car wash, called to say that the staining on the car wash property has been cleaned up. She said that the drums are owned by a Polish gentleman who speaks very little english. She said she explained to this person that the drums have to be removed by a licensed hauler. He told her he will get them cleaned up. I told her I needed receipts that the oil has been cleaned up.

Walter, the owner of the drums, called me up to say that the remediation company is coming at 12 noon to pick up the drums and clean the area. I told him to send me a copy of the receipt for the work that is done. He said he will mail me a copy.

8/29/07 − Raphael Ketani. Walter called today to say that the drums were picked up yesterday and the area was cleaned up. He said that DEC should be getting the paperwork very soon.

9/17/07 − Raphael Ketani. On 9/13/07 I received a cover letter with manifest from Feliks & Son Storage Tank Co. for the cleanup of the oil spill. The cover letter stated that 7 gals. of oil had spilled and that four drums of spent absorbent were disposed of.

Based upon the cover letter and manifest from Feliks and the small size and very small areal extent of the spill, I am closing the spill case.

10/15/07 − Raphael Ketani. Today I received a letter from Helen Spinosa stating that the owner of the drums is the tenant in apartment 4R(C?), Walter Markowski. She also stated that he was the owner of the drums and he proceeded to have them removed.

Map Identification Number 88 **CONSTRUCTION SITE** **Spill Number: 0602810** **Close Date: 06/13/2006**
351 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0048−941

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1041 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: ARDIAN PISTOLI
Spiller Phone: (516) 505−2700
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rvketani
Contact for more spill info: ARDIAN PISTOLI
Contact Person Phone: (516) 505−2700

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/13/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND CONTAMINATED SOIL AT THIS LOCATION WHILE DIGGING:

DEC Investigator Remarks:

6/13/06 − Raphael Ketani. Spill called in by consultant, Yesh Saha of Hydro Tech (718) 636−0800. Owner is Corcom Construction, 327 Hempstead Avenue, West Hempstead, NY 11552. Two 275 gal. tanks were discovered on site. The tanks were removed. Five soil samples were taken in the area where the tanks were. Results came back with only a few hits for all 5 samples. Based upon the 15 FAXed pages of analytical results (the last 3 pages were just chain of custody), I am closing the case.

Map Identification Number 89 **MANHOLE #53380** **Spill Number: 9909065** **Close Date: 02/22/2002**
MEEKER AVE/WITHERS ST BROOKLYN, NY TT−Id: 520A−0050−234

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1085 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: UNKNOWN

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name: STEPHEN CRIBBIN
Notifier Phone: (212) 580−6763
Caller Name: STEPHEN CRIBBIN
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info: STEPHEN CRIBBIN
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/26/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

20 GALS OF WATER IN MANHOLE−SAMPLE TAKEN−CLEANUP PENDING RESULTS

CON ED #128653

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"

Map Identification Number 90 **RESIDENCE** **Spill Number: 0811473** **Close Date: 01/20/2009**
381 GRAHAM AVE APT 2 BROOKLYN, NY TT−Id: 520A−0223−941

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1190 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: 381 GRAHAM AVE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: vszhune
Contact for more spill info: SARAH SMALL
Contact Person Phone: (718) 609−5565

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/19/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MERCURY	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

Complainant noticed 20 small pieces of Mercury in her toilet bowl. When flush it comes back. Needs advice

DEC Investigator Remarks:

01/19/08− Zhune called Sarah Small (718)609−556. She said I noticed mercury in the toilet that she does not know where it cone from. I told her what she have to do if spill less than two tablespoons which was her case. I also told her if spill is greater than one pond (Two tablespoons) you need to call (800) 424−8802 the National Response Center (NRC). it works 24 hours a day. 7 days a week.
Spill Closed.

Map Identification Number 91 **AMOCO STATION −MTBE** **Spill Number: 9414922** **Close Date: 02/11/2009**
243 MEEKER AVENUE BROOKLYN, NY TT−Id: 520A−0049−809

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1311 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	SPARTAN PETROLEUM	Spiller Phone:	(516) 365−8700
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:	DAWN MEDAGLIA	Caller Agency:	TYREE ENVIRONMENTAL TECH.	Caller Phone:	(516) 249−3150
DEC Investigator:	JAKOLLEE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/13/1995		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

GEO PROBE SURVEY ON SITE, FOUND CONTAMINATION.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "K FOLEY"
3/14/03 REASSIGNED FROM TIBBE TO VOUGHT.

12/1/03 Transferred from Vought to Foley.

10/16/06 reassigned from Foley to Tang. (Sun)

11/06/08: This spill case transferred from K. Tang to J. Kolleeny. Recommended to Vadim Brevdo that this spill be added to MTBE Pilot Project, Vadim agreed. − J. Kolleeny

02/05/09: Contacted Jay Semelmacher (emergency contact on PBS form, #2−247405). He didn't have any information regarding the site and suggested sending a letter to Spartan Petroleum.

Spartan Petroleum Corp.
333 New Hyde Park Road
Suite 201
New Hyde Park, NY 11042 (JK/KG)

02/09/09: Letter sent to Spartan requiring:
"1. Tank closure assessment report,

2. Explanation of the cause of the release,
3. Subsurface investigation report, including a site location map and a site plan showing the former and current locations of underground storage tanks and soil and groundwater sampling locations. A North arrow and scale bar must be included on the site plan.

If no tank closure report was prepared or no subsurface investigation previously conducted, the Department requires that a work plan for a site assessment including a soil and groundwater investigation be prepared and submitted. The work plan should include a site location map and a site plan showing proposed soil and groundwater sampling locations, as well as current and former tank locations. A North arrow and scale bar must be included on the site plan." Report due 03/19/2009. (JK/KG)

02/12/09: Rec'd letter dated 02/10/2009 from Kevin Kleaka of Impact Environmental stating that this spill has already been closed. Included was the UST Closure Report prepared by Impact dated 10/6/2004 and the No Further Action Letter dated 10/7/2004. Upon review of the documents, the spill was closed by Kevin Hale (central office) in 2004. At that time, this spill was not closed in the NYSDEC database. The spill is now closed in the database and the UST closure report and NFA letter have been uploaded to eDocs. (JK/KG)

Map Identification Number 92 **UNDERGROUND** **Spill Number: 1201151** **Close Date: 05/07/2012**
243 MEEKER AVE BROOKLYN, NY 11211 TT−Id: 520A−0273−573

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1311 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: CHARLIE SOSIK − UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: KGHALE
Contact for more spill info: CHARLIE SOSIK
Contact Person Phone: (631) 504−6000 ext. 1

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Any Type of RP, Including No RP − DEC Field Response − Corrective Action Not Required or Not Possible

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/04/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

old gas station − large amount in soil − history spill − clean up pending − underground tanks − were removed a while ago old spill # 94−14922

DEC Investigator Remarks:

5/7/2012 − KGH Spoke to Charlie Sossik of EBC. Site is a vacant gas station (over a decade) and the site of closed spill #9414922. Residual soil contamination encountered outside the footprint of former excavation during Phase Two Investigation for prospective buyer. Photo of site from Google Earth entered into EDOCs. According to EBC groundwater beneath the site was clean providing further evidence that remedial efforts at the site were largely successful. For further information please refer to spill # 9414922. Spill Closed. KGH

Map Identification Number 93 **ABANDONED BUCKET** **Spill Number: 0800508** **Close Date: 08/01/2008**

9 RICHARDSON ST BROOKLYN, NY TT−Id: 520A−0215−900

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1321 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Citizen	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/12/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

Caller states someone left a bucket of oil in a parking lot. Unk sizre of the bucket. Bucket is leaking.

DEC Investigator Remarks:

04/14/08−Vought−Off hours responder. DEC Vought and DEC Ahmed to peform site visit.

Map Identification Number 94 **CONSTRUCTION/EXCAVATION SITE** **Spill Number: 0911340** **Close Date: 01/25/2010**
568 UNION AVENUE BROOKLYN, NY TT−Id: 520A−0248−294

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1378 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: hrpatel
Contact for more spill info: CHRIS YESMONT
Contact Person Phone: (646) 265−6108

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/18/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	AIR

Caller Remarks:

ANON. 311 CALL TO DEP, REPORTING HEAVY SMELL OF PETROLEUM PRODUCT IN THE AIR AT ABOVE LOCATION. REPORTED LATE DUE TO MISCOMMUNICATION W/IN DEP.

DEC Investigator Remarks:

01/22/10−Hiralkumar Patel. spoke with Chris (at 4:05 PM on 01/21/10) at NYC DEP. Chris mentioned that he went to site, but site was locked. he smelled odors in area.

7:30 AM:− visited site. met Afifa Mahmood, construction supervisor/property manager. Afifa mentioned that odors coming from a strom drain catch basin located at the intersection of Union Ave and Richardson Street. walked through contrucstion site. currently piles being installed for new 7 story residential building with no basement. as per Afifa, elevator pit will go down to 5 ft bg and there will be a vapor barrier installed. found water in couple of holes in site, but no sheen or petroleum odors from excavation holes. Afifa mentioned that they are dewatering excavation holes into a concrete well which is located on−site and once they install piles, they put water back into hole. no dewatering into city sewer system. Afifa asked to contact their

architect Robert Jakel about any environmental investigation work prior to construction.

inspected catch basin at the intersection of Union ave and Richardson street. found mixed odors in area.

current project includes three lots (Block: 2731; Lot #s: 1, 45 and 47) and owner baught these properties in 2008 and at that time all lots were empty lot (no buildings on−site).

Block/Lot − 2731/1:− addresses: 568−580 Union Ave, 2−16 Richardson St, 1−9 Frost St
Block/Lot − 2731/45:− address: 13−15 Frost Street
Block/Lot − 2731/47:− address: 11 Frost Street

568 Union Ave LLC. **property owner**
c/o Heatherwood Communities LLC. **managment company**
1737 Veterans Memorial Highway
Islandia, NY 11749
Attn.: Afifa Mahmood **property manager**
Ph. (718) 963−0635
Fax (718) 963−0435
email: afifa@heatherwoodapartments.com
568union@heatherwoodapartments.com

Robert Jakel **architect**
Ph. (212) 219−9733 Ext. 15

9:02 AM:− left message for Mr. Jakel.

found PBS record at 568 Union ave property. no spills history at 568 Union Ave. no PBS or spill records found at 11 Frost Street or 13−15 Frost street.

PBS #:− 2−610135. as per PBS record, 568 Union Ave site had one 4,000 gal #6 oil UST which was removed on 01/29/06.

9:57 AM:− spoke with Mr. Jakel. he mentioned that Phase I was done during property transaction and there were no recognized conditions that may require Phase II, so Phase II was never conducted.

10:00 AM:− spoke with Holly at Heatherwood. she has Phase I report and will send copy next week.

Holly O’Brien
Heatherwood Communities, LLC.
PH. (631) 234−1600 Ext. 243

from NYCDOB website found that all three lots has "E" restriction for Hazmat.

10:08 AM:− spoke with Afifa. she mentioned that Phase II was done by previous owner before property transaction. asked Afifa to send copy of Phase I and Phase II for review.

10:46 AM:− received email from Ms. O'Brien with copy of Phase II report. Phase II report was prepared by Don Carlo in April 2007.
abstract:

− did GPR survey and found no underground anomalies
− eleven soil borings (B−1 through B−11) were installed to depht of 12 ft bg where groundwater found
− soil was screened every four feet and found no PID readings
− collected two soil samples from each borings: one at 0−4 ft and second at 8−12 ft depth (groundwater interface)
− collected total of three groundwater samples from borings B−1, B−4 and B−8 where temporary well points installed to depth of 14 ft bg
− fill material encountered throughout site from 0−4 ft
− found heavy SVOCs and metals in soil samples and groundwater sample
− no VOC contamination found in any samples except Naphthalene (max: 1,000 ppb in B−6 at 8−12 ft depth)

Ms. O'Brien will send copy of Phase I, RAP and CHASP.

01/25/10−Hiralkumar Patel.
3:39 PM:− received Phase I and RAP from Afifa.

Based on submitted documents, case closed.

Map Identification Number 95 **MANHOLE 4379** **Spill Number: 9911825** **Close Date: 03/04/2002**
DRIGGS AVE&MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0039−764

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1394 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: DRIGGS AVE/MANHATTAN AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	MARK SCHLAGEL	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	COMENALE	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/11/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller reported undaiperable sheen on 600 gallons water. con ed #129558.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 96 ****DRILL** TM 755 **DRILL**** **Spill Number: 0002248** **Close Date: 03/20/2008**

DRILL DRIGGS AVE/MANHATTAN AV BROOKLYN, NY TT−Id: 520A−0038−670

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1394 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: DRIGGS AVE/MANHATTAN AV
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR ZAMBRIO
Notifier Phone: (212) 580−6763
Caller Name: MARK SCHLEGEL
Caller Agency: CON ED
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/23/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

found sheen on 200 gals water −− sample taken − clean up pending results −− con ed 131538 .

DEC Investigator Remarks:

03/20/08 − See eDocs for Con Ed report detailing cleanup and closure.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

Map Identification Number 97 **MANHOLE #TM 633** **Spill Number: 0106443** **Close Date: 06/13/2003**
NEWELL ST & DRIGGS AV BROOKLYN, NY TT−Id: 520A−0044−663

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1429 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NEWEL ST / DRIGGS AV
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNK	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:	MR DELLACROSE	Notifier Phone:	(212) 580−6763
Caller Name:	CHARLIE MCCARTHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	KMFOLEY	Contact for more spill info:	CHARLIE MCCARTHY	Contact Person Phone:	(212) 580−6765

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/19/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1 PT UNK OIL IN A MANHOLE − SAMPLE TAKEN − CLEAN UP PENDING RESULTS

NO WATER IN MANHOLE

CON ED #139502

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
Con Ed e2mis Notes:

9/19/01 Approx 1 pint unknown oil on dirt on floor of TM 633. Historical indicates 12ppm. Sample taken and returned <1ppm PCB.
Cleanup pending pressure test of transformer. (KMF 9/26/01)

UPDATE @ 1933 HRS 9/19 CIG MACCARTHY NOTIFIED. #12255 VDC.

LAB RESULT RECEIVED 9/20/01 − 0629. 01−09297. 1 PPM. TJ − 50495

CLEANUP PENDING PRESSURE TEST OF TRANSFORMER. TJ − 50495

UPDATE @ 1225 HRS 9/27 NETWORKS SPLICER GUADARRAMA REPORTS HE PRESSURE TESTED TRANSFORMER, FOUND 'A' PHASE NOT HOLDING

PRESSURE BUT REPORTS NO TRANSFORMER OIL VISIBLE IN STRUCTURE. OIL LEVEL IS 50. WILL REPORT RESULTS TO HIS OFFICE. #12255 VDC.

UPDATE 9−27−01 1800 HRS QUIJIJE MECH "A" FLUSH DEPT REPORT CLEANUP COMPLETED. HE DOUBLE WASH STRUCTURE WITH BIO−JEN

760 AND BULL DOG. HE REMOVED ALL LIQUIDS WITH VACTOR. HE FOUND NO SUMP. THERE WAS A DRAIN HE FOUND NO SIGNS OF

OIL IN THE DRAIN. HE CEMENTED DRAIN. E.S.TAG # 35830 WAS REMOVED. INCIDENT IS CLOSED.

UPDATE 10−02−01 2000 HRS.... REPORT RECEIVED FROM O.S. D. HEARNS, THE A PHASE WAS ONLY LEAKING AIR. THE INCIDENT IS OFFICIALLY

CLOSED.

Environmental Detailed Incident Report

UPDATE 1/30/03 .... RECORDS SHOW UNIT WAS REPLACED 10/26/01 EV

Map Identification Number 98 **CORNOR OF CONSELYEA** **Spill Number: 9704676** **Close Date: 07/18/1997**
MANHATTEN AVE BROOKLYN, NY TT−Id: 520A−0042−892

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1450 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: MANHATTAN AV / CONSELYEA ST
Revised zip code: 11211

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: UNK
Spiller Phone:
Notifier Type: Citizen
Notifier Name: NONE
Notifier Phone:
Caller Name: JENIFER ALLEN
Caller Agency: CITZEN
Caller Phone: (718) 387−2037
DEC Investigator: LUCE
Contact for more spill info:
Contact Person Phone:

Category: Investigation indicates there was no spill.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/14/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TAR	OTHER	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

TARING OPERATION 24HRS A DAY − FUMES ARE AFFECTING HEALTH OF CALL

WHO LIVES ACROSS STREET − WIND DIRECTION TODAY IS MAKING IT WORSE

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 99 **MANHOLE #4900** **Spill Number: 9910471** **Close Date: 03/27/2002**
NORTH 11TH ST/UNION AVE BROOKLYN, NY TT−Id: 520A−0039−743

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1477 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name: STEPHEN CRIBBINS
DEC Investigator: COMENALE

Spiller: UNKNOWN − UNKNOWN
Notifier Name: STEPHEN CRIBBINS
Caller Agency: CON EDISON
Contact for more spill info: STEPHEN CRIBBINS

Spiller Phone:
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−8576
Contact Person Phone: (212) 580−8576

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/02/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SPILL IS CONTAINED−CLEANUP PENDING SAMPLE RESULTS−CON ED #129165

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 100 **GAS STATION** **Spill Number: 0601565** **Close Date: 05/12/2006**
116 CONSELYEA STREET BROOKLYN, NY TT−Id: 520A−0049−792

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1506 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PASSENGER VEHICLE
Spiller: PETER MESSINA − GAS STATION
Spiller Phone: (718) 388−1620
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SMSANGES
Contact for more spill info: PETER MESSINA
Contact Person Phone: (718) 388−1620

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/11/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

VACANT GAS STATION AND IT MAY BE LEAKING UNDER GROUND

DEC Investigator Remarks:

This is not a real spill.
The caller was asking a question, IF there was an open spill at this site.
He says it WAS a gas station over 20−30 years ago and now they're planning a new building on the site.
Sangesland looked up the site and found no spills and no PBS history.
IF tanks or contamination is found during the excavation for the new building, a spill case will then be opened.

Map Identification Number 101 **BOGUMIL HOME** **Spill Number: 0612279** **Close Date: 02/08/2007**
101 ECKFORD STREET BROOKLYN, NY TT−Id: 520A−0049−609

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1555 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: JIM CAREY − METRO FUEL OIL CORP
Spiller Phone: (718) 383−1400
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SMSANGES
Contact for more spill info: BOGUMIL HOME
Contact Person Phone: (718) 389−0379

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/08/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	5.00	GALLONS	5.00	GALLONS	SOIL

Caller Remarks:

STORAGE TANK OVERFILL DUE TO WRONG DELIEVRY AND IS ALL CLEANED UP

DEC Investigator Remarks:

100 eckert street.
During a regular delivery to 100 eckert, the owner of 101 eckert asked the driver for a delivery to his house. That homeowner actually used "Consumers oil" and screwed up the various oil company names. Homeowner said he had a 550 gal tank (it was really a 275gal) At 240gal the tank overfilled.
3gal came out on cement driveway, 2 gal on solid sealed cement floor in basement. All cleaned within 1 hour.

Map Identification Number 102 **GAS STATION** **Spill Number: 0000373** **Close Date: 02/27/2003**
2 ROEBLING ST BROOKLYN, NY TT−Id: 520A−0039−808

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1566 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: CALLER − ANTHONY FURNACOLA
Spiller Phone: (516) 457−3365
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name: GERARD RUTIGLINO
Caller Agency: SHARP ENVIO
Caller Phone: (631) 451−7300
DEC Investigator: TOMASELLO
Contact for more spill info: CALLER
Contact Person Phone: (516) 457−3365

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/10/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT HE IS DOING EXCAVATION AND HAS DISCOVERED CONTAMINATED SOIL. CALLER REQ CALL BACK ON CELL PHONE. NUMBER

LISTED ABOVE

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

NAC CORP DID TANK REMOVAL DID NOT NOTIFY THE dec. gAS TANKS GERALD OF sHARP TRANSP AND DISPOSAL is the project coordinator. 631−451−7300. GOR ENDPOINTS THAT ARE CLEAN. OVERNIGHTED ME REPORTS. SIX 550S. i SAID DO 2 gw SAMPLes, one on each side of the tank field. WILL have it done tomarrow, with an AUGER. lONG ISLAND aNALYTICAl will take the samples. tomasello 5/9/2000.

sAMPLES TAKEN AND REVIEWED. cASE CLOSED 6/13/2000 SEE dec ARCHIVE FILE

Map Identification Number 103 **SCHOOL** **Spill Number: 0713068** **Close Date: 03/12/2008**
320 MANHATTAN AVE. BROOKLYN, NY TT−Id: 520A−0215−877

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1570 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller:
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: jbvought
Contact for more spill info: MUNANDRA − NYC BOARD OF E
Contact Person Phone: (314) 219−7840

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/11/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Cleanup in progress.

DEC Investigator Remarks:

Jeff Vought visited the site

03/12/08−Vought−Daytime runner and site visit by Vought. Onsite were Petroleum Tank Cleaners(718−624−4842) and also Mr. Munendre Sharma(Bd. of Ed 718−349−5752). Spill caused by overfill which caused #2 fuel to run across sidewalk, down curb and into catch basin. PTC onsite with vacuum truck washing sidewalk and will also recover fuel from catch basin. Small five gallon spill also inside tank room from top of tanks and PTC will also place down speedy dry and wash affected area. Tank room floor composed of poured concrete with good epoxy seal. No odor complaints from faculty or students to date as per Sharma. Spill closed by Vought due to no impact to soil and or groundwater and cleanup by PTC.

03/14/08−Vought−Received call form Sharma who confirmed that tank room was cleaned and powerwashed. Catch basin was also cleaned and spill remains closed by Vought.

Map Identification Number 104 **MANHOLE #4837** **Spill Number: 9812337** **Close Date: 06/16/2003**
ROEBLING AVE/NORTH 11TH NEW YORK, NY TT−Id: 520A−0049−153

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1596 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: N 11TH ST / ROEBLING ST
Revised zip code: 11211

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name: RICHARD ROACH
DEC Investigator: JHOCONNE

Spiller: RICHARD ROACH − CON EDISON
Notifier Name: MR DELECROSS
Caller Agency: CON EDISON
Contact for more spill info: RICHARD ROACH

Spiller Phone: (212) 580−6764
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−6764

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/05/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	250.00	POUNDS	0.00	POUNDS	SOIL

Caller Remarks:

ABOVE TAR−LIKE MATERIAL DISCOVERED AT ABOVE LOCATION. TESTING

TO BE DONE ON MATERIAL BEFORE CLEANUP IS DONE. NO CALL BACK

REQUESTED.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
DEC responder notes:

1/6/99 D. Perez (ERT)− found while making repair on secondary joints. Solid sample collected − requested oil ID.

e2mis no. 122−247:

IN MH4837 WHILE TRYING TO REPAIR SECONDARY JOINTS FOUND A SOLID TAR−LIKE SUBSTANCE IN MH COVERING WALLS & FLOOR. CONTAINED TO STRUCTURE, NO SEWERS OR WATERWAYS AFFECTED. SOLID SAMPLE TAKEN & STOP TAG #04324 PLACED.NOTE;;;; PRIOR TO PREFORMING ANY WORK IN

MH #9 TO BE NOTIFIED DUE TO DEFECTIVE SECONDARY JOINTS IN MH.

UPDATE 1309 HRS 1/6 D.PEREZ ERT CALLED REQUESTING THAT WE MAKE SURE SAMPLE IS ALSO TESTED FOR OIL ID. CALLED ASTORIA CHEM LAB SPOKE TO P.KEERAN HE WILL LOCATE SAMPLE & CALL BACK.

1429 hrs received call back from chem lab [marta] sample found & id will be done. sample is still drying at this time.

LAB RESULT RECEIVED 1/6/99 − 17:45. 99−00137. OIL I.D. INDICATES A SUBSTANCE SIMILAR TO DIELECTRIC FLUID.

LAB RESULT RECEIVED 1/7/99 − 1045. 99−00096. <1.0 PPM.

UPDATE: 2/2/99 − 0500

F. DELLATORRE − 48634 − ENV. OPS., REPORTS <1.0 PPM CLEANUP COMPLETE WITH AND TAG #04324 REMOVED. INCIDENT IS CLOSED.

UPDATE 4/18/03 REVIEW OF STRUCTURE. NO TAR LIKE SUBSTANCE, NO OIL, NO FOREIGN SUBSTANCE. NO DEFECTIVE JOINTS WERE FOUND.

Map Identification Number 105 **CONSTRUCTION SITE** **Spill Number: 0701326** **Close Date: 05/03/2007**

ROEBLING STR/NORTH 11TH BROOKLYN, NY TT−Id: 520A−0049−155

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1596 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: N 11TH ST / ROEBLING ST
Revised zip code: 11211

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: KIETH WILLIAMS − CONSTRUCTION SITE
Spiller Phone: (718) 595−4755
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: smsanges
Contact for more spill info: KIETH WILLIAMS
Contact Person Phone: (718) 595−4755

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/01/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

BLACK SUBSTANCE COMING OUT OF THE GROUND AT ABOVE ADDRESS: WOULD LIKE DEC TO RESPOND AS SOON AS YOU CAN...

DEC Investigator Remarks:

This is a duplicate spill report to a longterm spill/cleanup going on at this construction site.

Map Identification Number 106 **CONSTRUCTION SITE** **Spill Number: 0608859** **Close Date: 11/07/2006**

NORTH 11TH ST & ROEBLING BROOKLYN, NY TT−Id: 520A−0049−154

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1596 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: N 11TH ST / ROEBLING ST
Revised zip code: 11211

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: COUNCILMAN YASSKY − CONSTRUCTION SITE
Spiller Phone: (718) 875−5200 ext. M
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: COUNCILMAN YASSKY
Contact Person Phone: (718) 875−5200 ext. M

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/01/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DURING EXCAVATION AT THIS LOCATION PETROLEUM CONATMINATION WAS DISCOVERED

DEC Investigator Remarks:

11/07/06 Rahman− Cross referenced to spill #0605974

Map Identification Number 107 **MANHOLE 4925** **Spill Number: 9910080** **Close Date: 03/29/2002**
WITHERS ST/UNION AV BROOKLYN, NY TT−Id: 520A−0039−736

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1615 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CALLER − CON EDISON
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: HERBST
Notifier Phone: (212) 580−6764
Caller Name: MARK SCHLAGEL
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/19/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 PINT UNK OIL ON 50GAL OF WATER − CONTAINED − CASE #129045

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"

Map Identification Number 108 **MANHOLE 53375** **Spill Number: 9909108** **Close Date: 12/08/1999**
WITHERS ST/ UNION AVE BROOKLYN, NY TT−Id: 520A−0039−723

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1615 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR POVERELLI	Notifier Phone:	
Caller Name:	BILL MURPHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	BILL MURPHY	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/27/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 GALS OF OIL ON 150 GALS OF WATER. CONTAINED. CLEAN UP PENDING TEST RESULTS. CON ED 128−668

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed E2MIS notes:

FDR 6B54 found approx. 2 gallons unknown oil on approx. 150 gallons of water in MH 53375. No other oil filled equipment, took a liquid sample.

Lab seq# 99−11330<1.0PPM. Car over hole, follow up in the AM, reports <1.0PPM cleanup completed using bio−gen 760 and tag#11762 removed, incident is closed.

Map Identification Number 109 **GAS STATION** **Spill Number: 9608904** **Close Date: 10/18/1996**
25 SKILLMAN AVE BROOKLYN, NY TT−Id: 520A−0051−730

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1652 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: UNKNOWN − GAS STATION
Spiller Phone:
Notifier Type: Other
Notifier Name: JERRY ESPOSITO
Notifier Phone: (718) 389−0009
Caller Name: JERRY ESPOSITO
Caller Agency: CITIZEN COMMUNITY BOARD 1
Caller Phone: (718) 389−0009
DEC Investigator: JMKRIMGO
Contact for more spill info: UNKNOWN
Contact Person Phone: (000) 000−0000

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/17/1996		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

citizens are complaining of gasoline fumes−feel that the

under ground tanks at gas station are leaking

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"

Map Identification Number 110 **25 SKILLMAN AVE** **Spill Number: 9111612** **Close Date: 02/12/2003**
25 SKILLMAN AVE BROOKLYN, NY TT−Id: 520A−0051−729

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1652 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 25 SKILLMAN AVE.
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: COASTAL OIL OF NY
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name: LT. ROSEA
Caller Agency: NYC FD
Caller Phone: (718) 965−8229
DEC Investigator: SULLIVAN
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/10/1992		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	POUNDS	0	POUNDS	SEWER

Caller Remarks:

NUMEROUS COMPLAINTS OF AREA RESIDENT OF GASOLINE ODOR IN THEIR BUILDING.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 111 **BETWEN NORTH 10 /11TH** **Spill Number: 0612377** **Close Date: 02/15/2007**
ROEBLING WILLIAMSBURG, NY TT−Id: 520A−0048−060

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1685 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: ROEBLING ST
Revised zip code: 11211

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: JOE − BETWEN NORTH 10 /11TH
Spiller Phone: (646) 522−3622
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rmpiper
Contact for more spill info: JOE
Contact Person Phone: (646) 522−3622

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/12/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

OIL COMING UP FROM A BUILDIONG AT CONSTRUCTION SITE

DEC Investigator Remarks:

spill is a duplicate. See 0609092 and 0605974. This spill closed.

Map Identification Number 112 **30 SKILLMAN AVE** **Spill Number: 9200714** **Close Date: 04/21/1992**

30 SKILLMAN AVE BROOKLYN, NY TT−Id: 520A−0049−162

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1692 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Citizen
Caller Name: AL TUDESCO
DEC Investigator: TOMASELLO

Spiller:
Notifier Name:
Caller Agency:
Contact for more spill info:

Spiller Phone:
Notifier Phone:
Caller Phone: (718) 389−7968
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/18/1992	04/21/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	AIR

Caller Remarks:

FUMES/ODOR

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 113 **MANUFACTURING FACILITY** **Spill Number: 0514290** **Close Date: 08/04/2006**
78 KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0046−484

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1724 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: RACHEAL ATMAN − MANUFACTORING FACILITY
Spiller Phone: (631) 462−5866
Notifier Type: Other
Notifier Name: RACHEAL ATMAN
Notifier Phone: (631) 462−5866
Caller Name: RACHEAL ATMAN
Caller Agency: HYDRO TECH ENVIR
Caller Phone: (631) 462−5866
DEC Investigator: rvketani
Contact for more spill info: RACHEAL ATMAN
Contact Person Phone: (631) 462−5866

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/14/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND CONTAMINATION IN SOIL WHILE REMOVING

DEC Investigator Remarks:

4/26/06 Sangesland called HydroTech to ask for status update.
Kathy DeVoe said that during tank pull (2 tanks) contaminated soil was found.
Area was backfilled and Hydro Tech prepared a "Remediation Proposal" and submitted it to DEC for review.

05/17/06−Vought−Spill transferred from DEC Vought to DEC Ketani as per DEC Austin.

5/30/06 − Raphael Ketani. PBS case #2−110728. 3 tanks − 1 tank 2,000 gal. #2 oil; 2 tanks each 1,080 gal. gasoline. All closed and removed.

6/2/06 − Raphael Ketani. I talked to Kathleen De Voe from Hydro Tech regarding the March 26, 2006 Tank Closure Report. I told her that there was a lot of confusion as regards the number and type of oil tanks on site and to submit a revised PBS application. I also told her that a letter was needed from an engineer that knows the project stating that the digging could not proceed any further due to issues of structural integrity for the building and the loading dock. I sent her a letter regarding these 2 issues. Otherwise, the report was acceptable.

6/8/06 − Raphael Ketani. I spoke to Kathy of Hydro Tech. She said she spoke to the owner of the building and he has no recollection of the two 1,080 gal. tanks. Kathy said they will do a GPR investigation and send me the results. They will also amend/revise the PBS application and send it to me.

6/13/06 − Raphael Ketani. I received the following e−mail today:

Raphael −

I'm sending you this email as Kathy Devoe is on vacation. The client on the above spill is confused as to what information the NYSDEC has that appears to conflict with the tank information for the property. Could you please send over the whatever records you may have so that we can review this and try to get to the bottom of this. If you send it over, then we can try to clear the conflicts for you. Let me know.

Thanks, Mark

I sent Mr. Robbins an e−mail explaining what DEC has in its records regarding the number and capacities of the various tanks.

7/19/06 − Raphael Ketani. Kathy of Hydro Tech called. She said they did the GPR survey and didn't find any additional tanks. She said she is sending a revised PBS application to reflect that the 2000 gal. tank and a 550 gal. tank were the only tanks present and that they were removed. She said she also has a letter from an engineer stating that no further digging could take place due to structural concerns. She will send me all of these documents.

7/20/06 − Raphael Ketani. I received the July 18, 2006 GPR Survey for the site and a letter from the Hydro Tech engineer stating that further digging could not be performed as it would affect the structural integrity of the building. I reviewed the report and had no comments.

7/27/06 − Raphael Ketani. Kathy of Hydro Tech called to say that the corrected PBS form was sent to the owners of the property for their signature. She also said that the responses in the GPR results were only very small responses (i.e. the line on one page) and that any tanks would be represented as many more lines or wider lines.

8/4/06 − Raphael Ketani. I received the revised PBS Application from Kathy of Hydro Tech. It looked properly filled. I forwarded it to Nick Lombardo in the PBS Unit. Based upon receipt of the revised PBS Application, the GPR report, the Tank Closure Report

and the engineer's structural integrity letter, I am closing the spill case. Also, in the last paragraph of the cover letter to the Tank Closure Report, they have requested an NFA letter. I will send one.

Map Identification Number 114 **SERVICE BOX #12699** **Spill Number: 9912570** **Close Date: 02/26/2002**
107 KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0044−671

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1730 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name: BRIAN JOYCE
DEC Investigator: COMENALE

Spiller: UNKNOWN
Notifier Name: MR BOVARELLI
Caller Agency: CON ED
Contact for more spill info: BRIAN JOYCE

Spiller Phone:
Notifier Phone:
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/03/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

FOUND ON 45 GALLONS OF WATER − CLEAN UP PENDING LAB RESULTS

CON ED #129842

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 115 **MANHOLE 4930** **Spill Number: 9910564** **Close Date: 03/27/2002**
UNION AVE/JACKSON ST BROOKLYN, NY TT−Id: 520A−0039−745

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1737 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name: MR POVERELLI
Notifier Phone:
Caller Name: STEVE ROMERO
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: COMENALE
Contact for more spill info: STEVE ROMERO
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/05/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1 qt oil on 70 gals of water. clean up pending. con ed 129−194

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 116 **MCGINNESS AVE BETWEEN** **Spill Number: 9706969** **Close Date: 09/15/1997**
NASSAU AVE DRIBBS AVE BROOKLYN, NY TT−Id: 520A−0050−235

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1739 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: MC GUINNESS BLVD BTWN NASSAU/DRIGGS
Revised zip code: 11222

Source of Spill:	UNKNOWN	Spiller:	NYNEX	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	RON SASON	Notifier Phone:	(718) 204−1267
Caller Name:	CLARINDA	Caller Agency:	MILRO ASSOC	Caller Phone:	(516) 379−1500
DEC Investigator:	MCTIBBE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/11/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	10.00	GALLONS	10.00	GALLONS	SOIL

Caller Remarks:

CALLER DID NOT HAVE ANY INFORMATION ON SPILL OR CAUSED − MILRO

HIRED TO CLEAN UP SPILL FOR NYNEX

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
CLEANED BY NYNEX.

Map Identification Number 117 **APPEARS THAT 20 GAL COOKING OIL** **Spill Number: 0706573** **Close Date: 11/08/2007**

LEONARD ST & METROPOLITAN AVE BROOKLYN, NY TT−Id: 520A−0037−468
WAS DUMPED INTO XFMR VAULT.

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1747 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: LEONARD ST / METROPOLITAN AVE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: CON EDISON
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: gdbreen
Contact for more spill info: ERTSDESK
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/12/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	20.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

unknown oil down a vault; con ed referrence # 208003

DEC Investigator Remarks:

11/08/07 − See eDocs for Con Ed report detailing cleanup and closure.

208003. see eDocs

Map Identification Number 118 **WAREHOUSE** **Spill Number: 0602498** **Close Date: 01/10/2007**
261 NORTH 9TH STREET BROOKLYN, NY TT−Id: 520A−0049−808

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1767 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: DENNY SING − WAREHOUSE
Spiller Phone: (718) 857−3100
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: DENNY SING
Contact Person Phone: (718) 857−3100

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/05/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND CONTAMINATED SOIL AT LOCATION

DEC Investigator Remarks:

Placed call into Denny Sing of Don Carlo Env. requesting callback and info. Need to send CSL.
Owner as per Property Shark
Vazquez, Alvaro
86 Havemeyer St
Brooklyn NY 11211−3348
07/17/06 Rahman− As per Lisa from Don Carlo(718.857.3100), the property owner is
263 N Group LLC
C/O Mr. Sam Pearl
80 Clay Street, Brooklyn, NY 11222. Ms. Lisa will get back to DEC with accurate info.
01/10/07 Rahman− Phase II report prepared by Don Carlo Env. Services Inc.Petroleum related VOC/SVOCs were not found in Phase II soil/ground water samples.Presence of only certain SVOCs(Benzo group)indicate that those are related with historic fill material.Heavy metals were found in ground water samples.In DCES's opinion, those matals came from the historic use of the site as a metal smelting and storage facility.The proposed development for the subject property is a five story residential building.Contaminated soil will be removed during the excavation for new foundation.A water proofing barrier will be incorporated in the foundation slub.The site is a NYC DEP "E" designated site.Spill closed due to absence of petroleum constituents in soil/ground water.Presence of heavy metals will be addressed as part of NYC DEP's requirement.

Map Identification Number 119 **MH 4927** **Spill Number: 0202473** **Close Date: 08/26/2002**
HAVERMYER ST/N 9TH ST BROOKLYN, NY TT−Id: 520A−0044−450

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1785 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: HAVEMEYER ST / N 9TH ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: LOU ZAMBRIO
Notifier Phone:
Caller Name: RICHARD ROACH
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: KMFOLEY
Contact for more spill info: RICHARD ROACH
Contact Person Phone: (212) 580−6764

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/07/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 quarts unk oil ref # 143204. this was a 24 hr dinmininus spill originally.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
Con Ed e2mis #142204:

06−JUN−2002 1020HRS. YOUNGBLOOD #15199 U/G REPORTS FOUND 2 QUARTS OF UNKNOWN OIL ON 10 GALLONS WATER IN M−4927. NO FIRE OR SMOKE. NO INJURIES. NO PRIVATE PROPERTY AFFECTED. IT APPEARS TO BE CONTAINED TO STRUCTURE. NO SEWERS OR WATERWAYS APPEAR TO BE AFFECTED. TOOK SAMPLE ON A E PRIORITY . HUNG ENVIROMENTAL STOP TAG # 32084. NO VISUAL WATER MOVEMENT. WATER IS STANDING STILL. NO CRACKS IN THE STRUCTURE WALLS. THIS WILL BE ON THE COMPANY 24 HOUR DIMIMIS PROGRAM. CHAIN OF CUSTODY # ISBB07157. CIG MORRIS NOTIFIED @ 1100HRS.

UPDATE @ 2152 HRS 6/6 LAB RESULTS RECEIVED SEQ#02−05256−001 @ <1PPM PCB.

UPDATE 6−7−02 0800 HRS K. QUEST MECH "A" FLUSH DEPT REPORTS HE LOADED TWO FLUSH TRUCK (NO COMPANY TANKER AVAILABLE) STRUCTURE IS MAKING WATER , WILL BE UNABLE TO COMPLETE THIS STRUCTURE ON TIME. TAKING THIS OFF THE 24HRS DEMINIMIS PROGRAM. NOTIFIED CIG ROACH

AT 0806 HRS

6/7/02= 1840HRS ADEDAPO ENVIR OPPS REPORTS CLEANUP COMPLETED. DOUBLED WASHED STRUCTURE USEING BIO−GEN 760. FOUND NO SUMP. REMOVED ENVIR TAG# 32084.

Update 6−11−02− 13:30 hrs. Cleanup completed by double washing structure with bulldog. Liquids were removed by tanker and solids were removed by vactor. No leaking company equipment.

Map Identification Number 120 **387 HUMBOLDT ST/BKLYN** **Spill Number: 9000154** **Close Date: 04/05/1990**
387 HUMBOLDT STREET NEW YORK CITY, NY TT−Id: 520A−0040−984

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1785 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Federal Government
Notifier Name:
Notifier Phone:
Caller Name: JOHN HIGGINS
Caller Agency: EPA
Caller Phone: (201) 906−6194
DEC Investigator: SIGONA
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/05/1990	04/05/1990	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	AIR

Caller Remarks:

NYCDEP WAS NOTIFIED, NO ACTION TAKEN, DEC (SIGONA)REPORTED TO NYCDEP HAZ MAT WHO WILL INVESTIGATE.

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

10/10/95: This is additional information about material spilled from the translation of the old spill file: STRONG ODOR.

Map Identification Number 121 **RESIDENCE** **Spill Number: 0101039** **Close Date: 04/26/2004**
41 NEWELL ST BROOKLYN, NY TT−Id: 520A−0044−684

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1788 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 41 NEWEL ST
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: ANTHONY LOSQUADRO − VIJAX FUEL CORP
Spiller Phone: (718) 497−4491
Notifier Type: Other
Notifier Name: ANTHONY LOSQUADRO
Notifier Phone: (718) 497−4491
Caller Name: GLEN GOREL
Caller Agency: RESPONSE ENVIORMENTAL
Caller Phone: (508) 795−0110 ext. 2
DEC Investigator: JMKRIMGO
Contact for more spill info: UNK
Contact Person Phone: (000) 000−0000

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/26/2001		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

OIL COMPANY DELIVERED FUEL TO THE WRONG RESIDENCE−SPILL CREW IS ENROUTE FOR CLEANUP.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
01/26/04

Transferred from Rommel to Austin

02/17/04: Reassigned from AUSTIN to KRIMGOLD.

4/26/04. J.Krimgold reviewed a letter report submitted by Response Envir. Inc. dated June 1, 2001. According to the information presented in the report the oil release at this site has been successfully cleaned up. Post excavation sampling show that contaminants level in soil marginally exceeds TAGM levels for a few compounds. NFA. YK.

Map Identification Number 122 **CONSTRUCTION SITE** **Spill Number: 0613238** **Close Date: 03/09/2007**
ROEBLING STREET BROOKLYN, NY TT−Id: 520A−0270−863

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1810 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: LAURIE FOUGERE − UKNOWN
Spiller Phone: (917) 682−2373 ext. 0
Notifier Type: Police Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: sfrahman
Contact for more spill info: LAURIE FOUGERE
Contact Person Phone: (917) 682−2373 ext. 0

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/09/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALL WAS REPORTED TO NYC DEP. SPILLER INFO, CAUSE AND SOURCE ARE UNKNOW AT THIS TIME:

DEC Investigator Remarks:

Cross reference to Spill#0605974

Map Identification Number 123 **EXCAVATION** **Spill Number: 0612680** **Close Date: 02/22/2007**
214 NORTH 11TH STREET BROOKLYN, NY TT−Id: 520A−0048−949
CORNER DRIGGS ST

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1810 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: BOB − EXCAVATION
Spiller Phone: (909) 226−0990
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: sfrahman
Contact for more spill info: BOB
Contact Person Phone: (909) 226−0990

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/22/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT A DEC REP NEEDS TO GO TO ABOVE ADDRESS AND CHECK SITE OUT, THEY ARE EXCAVAVTING AND ALL KINDS OF BLACK STINKY SOIL IS COMING UP

DEC Investigator Remarks:

This is a duplicate spill to an existing ongoing spill case.
Ref spill #0605974 − DEC Manager is Sharif Rahman

Map Identification Number 124 **EXCAVATION SITE** **Spill Number: 0605974** **Close Date: 06/06/2008**
204−214 NORTH 11TH ST BROOKLYN, NY 11211 TT−Id: 520A−0048−948
MCCAREN MEWS

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1810 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO REVISION MADE

Source of Spill: UNKNOWN
Spiller: CHARLIE SOSIK − EXCAVATION SITE
Spiller Phone: (631) 589−6353
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: CHARLIE SOSIK
Contact Person Phone: (631) 589−6353

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/23/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

CLEAN UP IN PROCESS AND WAS FOUND DURING EXCAVATING.

DEC Investigator Remarks:

**** Removed tank needs to be registered****
Sangesland spoke to Charlie Sosik of PW Grosser Consulting.
Site is an open excavation site right now with plans to build a residential tower. Because of it's industrial history and the contamination found during a Phase 2 investigation, the NYC Buildings Dept has given the site an "E" designation (meaning there are environmental issues to be resolved before the building can be finished)
Right now they're excavating the soil and sending it to an approved facility. During this process they found oil soaked soil (that's why they called in the spill report).
Because of the high water table (8ft depth?) when the basement floor will be at 12 ft depth, the contractor will need to install a "Frac Tank" to pump the contaminated water/oil mix until it can be removed from the site.
The longer term plan to remove the water from the site, is to set up an oil/water separator, contain the oil and discharge the water into the city sewer system (with city approval).
PW Grosser has done this type of work before and will keep the DEC up to date with the progress on cleaning up the site.
11/02/06 Rahman− Spoke with Chris Almskoz of PW Grosser Consulting. He told me that the excavation begun around July of this year and contaminated soil is being sent to disposal facility in NJ.There is a dewatering system active at that site with permit city DEP.He also indicated that they are continuously monitoring air quality(dust & odor)at that site.I told him to take immediate measure to minimize petroleum odor(cover the stockpiled soil, use deodorant powder)that travelling down wind.DEC will receive Phase II and RAP shortly.
11/03/06 Rahman− Spoke with Chris Almskog again this morning. DEC rec'd air quality monitoring data over past few days from different locations of the site.The PID meter(mini RAE 2000) detected highest voc concentration as 1.8 ppm(As per DER 10,at 5.00 ppm voc level work activities must be temporarily halted, at 25.00 ppm level work activities must be shutdown).Nonetheless, covering of the stockpiled soil with polythin sheeting, use of deodorant foam and direct loading to the truck have been strongly recommmended at this time.

11/16/06 Rahman− Inspected the site again on 11/15/06 at around 4.00 pm after getting the odor complaint from Mr.Avigail Milde, a neighbor next door.I could not verify the complaint as there was no odor at that time and PID meter detected no reading(0.0

ppm)at street level and inside the lot.Oil−water mix is being pumped out to a settling tank for disposal as they accumulate at the bottom of the excavation.Sharif noticed covering of stock piled soil with green polytheen sheet to suppress the odor if it tends to spread.
The subject property is the planned site for the construction of a residential building. The proposed development will include the construction of a six−story, 19,800 square foot (foot print) building with a basement,and a separate three story 10,000 square foot (foot print)
parking garage.Excavation to an approximate depth of ten to twelve feet will be required for the construction of the foundation beneath the building and to a depth of 5 feet below the parking garage. The remainder of the property approximately 8,000 square feet will be capped with concrete and will serve as an open courtyard.
During the excavation, a previously abandoned 3,000 gallon heating oil UST was uncovered. It was located about 110' west of Roebling and 25' south of North 11th Street. In early August, Koon Tang visited the site with Charlie Sosik (formerly of PWGC) to discuss the UST and how to proceed. As per PW Grosser's claim,it was agreed upon to continue the excavation process to the proposed construction dimensions and Koon Tang or other DEC rep would visually re−inspect the site after soils were removed and properly disposed of.
Regarding the odor issue− the developer has vacuumed out floating product (11/15/06) from the onsite exposed water, used absorbent pads to collect product as it is observed, has been covering soil stockpiles with plastic sheeting after excavation activities, and he has
been soliciting contractors to apply an odor suppressing solution and/or foam encapsulant as excavation activities continue.
They plan on continuing to vacuum out floating product and use absorbent pads and/or booms when and if it continues to build up and to apply suppressant as needed.
They are in the process of obtaining a dewatering permit. Once they obtain the permit, the developer will continue to excavate directly into trucks for proper soil disposal. Once the proper excavation limits are achieved the developer is planning on installing a suitable sub−base for the foundation and slab and then setting concrete forms and pouring the foundation. It is anticipated that dewatering of the site will continue until after the foundation and slab are in place and waterproofed.
DEC requires clean end point samples and periodic sample of dewatering water before installing the foundation.
12/12/06 Rahman− I inspected the 204 N 11 Street excavation site 12/11/06 morning and met one of the owners Mr. Issac Schwarz .Currently, the excavation and removal of contaminated soil is proceeding towards the western side of the lot.On the eastern side, the installation of the pile caps is occurring, as the confirmatory end point samples results shows the organics were within acceptable range.There was no odor at the side walk level surrounding the lot, but I found a slight odor inside the lot near the stockpiled soil (PID reading; 0.5 ppm to 1.5 ppm). I suggested to the owner of the property that he cover the stockpiled soil until it is removed from the site for disposal(that action was taken immediately by the owner). Additional rounds of sampling will be performed in the middle and western side, once the excavation is completed down to proposed construction depth. Soil beneath the proposed building slab is to be covered with a vapor barrier line, followed by the concrete slab. As per phase II investigation, ground water was not impacted by the release from the buried tank.PW Grosser Consulting is overseeing the environmental issues.DEC has been notified that Bio solve solution is being used to suppress odor at the site,in addition to covering the stockpiled soil with polythin sheet.
Three Ground Water samples have been suggested to send to lab again to reconfirm the ground water quality at the end of the removal of perched oil water mix from the site.
01/26/07 Rahman− One out of four GW samples came up with some hits of voc/svocs.
02/20/07 Rahman− Offsite source investigation comprised of five monitoring wells have been submitted to DEC.I recommended for additional one on north sidewalk of N 11th street across the current seepage.
02/27/06 Rahman− I inspected the site this afternoon after being advised by the Regional Spill Engineer.No activity(excavation, installation of pile cap) was observed at the site today.There was no odor on sidewalk level(four sides of the lot),PID meter reading was).0 − 0.5 ppm).Two crews were at the site to pump the little amount of oily water as it accumulates.Apparently, the

seepage has been sibsided.
Dept. rec'd the recent end point sampling result along with proposed monitoring wells installation plan.
03/05/07 Sharif inspected the site today,excavation of soil proceeding at the southwestern side, no odors observed.
03/14/07 Rahman− I stopped by the site today.Excavation extended to the southeast side currently.There is a slight odor spreading of the exposed soil today, that soil will be covered with polythene at the end of excavation today.211 n 11th Street is a wire house across the 204 N 11th site.There are doing a Phase II as part of property transaction.Copy of Phase II can be found on request from Roy Leonard @(646)262−2840.
03/27/07− Inspected the site today at noon.MW installation will take place on coming thursday/friday.The seepage along the N 11th Street has decreased, interms of quantity and pumping operation is in effect as needed.There was no odor outside of the lot, slight odor was observed in the lot.Stockpiled soil is kept covered until loaded to the truck for disposal.
03/29/07 Wells installation taking place today.I was there this morning when the well drilling was being performed.I came to know that a UST was removed recently from 211 N 11th street garage, which is directly across the seepage spot.I spoke with that property owner Mr.Roy Leonard and he confirmed that a 1080 gallon UST was removed and no spill/contamination was found.I requested him to send us the tank closure affidavide/company name who removed the tank.
One well is being installed IFO 211 N 11th street.
04/10/07 Activities are suspended because of the holidays, will resume on 04/11/07.No odor was observed on 04/06/07 visit to the site.Sampling of the six wells will take place today on 04/10/07.(SR)
04/16/07 Flood water stranded in the lot, is being pumped out to the storm drain, no sheen/evidence of oil ovserved during my visit this morning.(SR).
05/10/07 Sharif spoke with P.W Grosser(Kris Almskog).The monitoring wells sampling data is being reviewed by PW Grosser.As per Kris, well on south side of N11th street indicated some product only.Wells on roebling side indicated presence of BTEX, no free product.PW Grosser plans to collect the free product from wells and perform another round of sampling.
06/06/07 AB Environmental pumped out oil from one well on side walk this morning.All other wells were checked for product, but there was no floating product.I was present that time.Approx. 2 gallon was collected from one well.(SR)
06/28/07 MW#1 was checked on 06/27/07 morning around 09:15 AM and approx. one gallon product was collected for disposal.(SR)
07/25/07 Spill#0750535 has been created to investigate the source of the petroleum seepage by state funded contractor,PIN case#04394.(SR)

10/02/07 Reviewing Phase II report done in March 2006.Contamination was observed in shallow and deep soil throughout the site and also in ground water.DEC was not notified that time about the contamination discovery, why? Again, in Phase II report, soil analytical for VOC/SVOCs were not provided.
I spoke with Mr. Issac Swartz and told him to provide DEC the Soil analytical result with pictures of the site at different stages of the excavation work.
I emailed and left a messege for Kris Almskog of PW Grosser few days ago regarding the pictures of the site and Soil analytical from Phase II.(SR)
10/04/07 According to Phase I report by CA Rich Environmental Services, the building at 203 N 11th St had been used as a record storage warehouse for at least twenty years.Phase I identified former use of oil to heat the building based on a 1950 oil burner application to Department of Building.No evidence of vent pipes, fill ports or concrete patches was observed during Phase I investigation.During excavation activities for building development,2,000 gallon UST was found and on August 1st 2006 tank was removed by Tradw Winds Environmental.Apparently, the UST had been in the soil for about fifty years.No details information was provided about the Tank conditions like, corrosion,leak,holes or contamination around the tank.Affidavit from Trade Winds says remaining oil was removed from the tank and tank was removed with piping for disposal.Waste disposal manifest shows approx. 100 gallon sludge was removed from tank bottom.Waste disposal manifest also shows approx. 6,000 gallon petroleum contaminated water was disposed during tank removal month.Apparently, the petroleum contaminated water was removed from the tank area.DEC requires

the following information:
1)Soil analytical from Phase II
2)Details information about the UST condition(corrosion, leak,contamination around the tank)
3)Pictures of the site during soil excavation works.PW Grosser(Kris Almskog)told me that they have more than 100 photographs of the site during excavation.
4)Disposal manifest for liquid in the settling tank.A settling was engaged on N 11th Street to collect oil water mix since October 2006 for about 7/8 months.
5)PBS registration of UST.(SR)
10/17/07 Developer of 204 N 11th site Mr. Schartz(718.218.8330) called me this morning and asked me if the investigation is completed and he could get the spill closed on his property.I told him that DEC's contractor expeditiously working to complete the investigation and at this point DEC requires additional information from his consultant PW Grosser regarding the UST on site, soil analytical from Phase II,details info on corrosion/holes of the UST with pictures,pictures of the excavation site during the excavtion and removal of contaminated soil and water, etc.He told me that PW grosser will contact me today with the required info.(SR)
10/25/07 Conference call in DEC attorney John Urda's office with John Urda, Sharif Rahman, Jeff Vought and Dev Yudelson on the phone.DEC requires photos of the site at different stages of excavation and removal of contaminated soil/water, disposal manifest for the oil removed from the settling tank.Dev Yudelson indicated that he would advise his client accordingly.(SR)
10/26/07 Artie Baldwin from Trade Winds called me this morning in response to John Urda's call yesterday regarding the Tank at 204 N 11th site.He told me that they have a file on that tank which includes some pictures,too.He would send DEC whatever documents they have regarding the tank.

03/07/08 Department's letter requiring aggresive contamination removal from underneath the sidewalk went out to P.W.Grosser Consulting on 02/12/08.The letter asked to perform removal of contaminated soil and free product from underneath the side walk by excavating, as technically practical and feasible.Letter was approved by RSE and DLA.We had a meeting with DEC Vought, RSE Mr. Austin, John Urda and DEC sharif Rahman in RSE's office and discussed P.W Grosser's response regarding their proposal to VEFR the wells only, instead of excavation and removal of gross contamination underneath the sidewalk.RSE Mr. Austin opinioned that due to poor transmitivity of the oil, quantity of accumulation to the wells is also nonsignificant. Therefore, without excavtion,VEFR will not work well to recover free product from underneath the sidewalk. RSE recommended to contact Key Span Energy to study feasibility of excavation near their gas main to remove contamination.A meeting with property owner's consultant, counsel was scheduled on 03/13/08 at DEC office to discuss about remedial strategy.(sr)

03/17/08 A meeting was held on 03/13/08 at DEC region 2 office with P.W. Grosser(Kris Almskog),Proper owner Issac Swartz and Mr. Firetog.On DEC side− John Urda, Randall Austin,Jeff Vought and Sharif Rahman.DEC explained that due to the fact that ground water flow direction is from the site to the north and an UST that had oil in it with strong evidence of oil release to the ground, the site 204 N 11th Street is the most potential source of this oil contamination and there was no other source found.It was decided that PW Grosser will prepare revised work plan to excavate and remove contamination from the sidewalk after consulting and keeping KeySpan in the loop.KeySpan has to be notified and clearance is needed from them in order to excavate near gas line.KeySpan Energy's contact info was given to P.W. Grosser.As per RP's request to close out this spill, DEC decided to close Spill 0750535 after the cost of investigation is paid by Mccarren Park Mews.Issac Swartz agreed to pay the bill for investigation done by Envirotract.Total cost of the investigation was provided to John Urda for dispatching to McCarren Mews.It was also discussed to analyze ground water quality once excavation and removal of gross contamination is completed.

(sr)
05/27/08 I called Dave Lorhtior(EnviroTrack) and requested him again to send DEC a confirmation letter when the bill for PIN job

is paid by McCaren Park Mews so that I can request DEC central office to take off the PIN number and spill 0605974 can be closed as per the stipulation agrement.Spill#0750535 will remain open until the remedial work is completed as per the Corrective Action Plan(CAP).(s.r)

06/02/08 I spoke with Envirotract's project manager Dave Lorthior regarding the bills, he said they have been paid and he would send us the confirmation by today. Erin Gaus from Test America(Lab) also told me the same.Once we receive the confirmation letter, this spill case will be closed.I contacted with Kris Almskog of P.W. Grosser to get the update on the sidewalk excavation job.As per Kris, A.B. Environmental was hired to perform the work, application for side work permit has been submitted to NYC DOT.Kris also indicated that as part of IRM, wells will be monitored today.(sr)

06/06/08 Rec'd letter/e−mail from Envirotract and Test America confirming that the invoices were paid in full and there is no other bill unpaid associated with spill#0750535/PIN 04394. As per Stipulation agreement,R2−20080502−236 and consent from RSE and DLA(John Urda), spill#0605974 is closed.
** Additional remedial activities will be carried out under Spill#0750535** (sr)

** 06/18/08 I stopped by the site and observed some soil excavation taking place at the south west side proposed parking lot area, soil has black stain and it has odor.I suggested to take soil samples from the bottom of the excavation in a agrid pattern and perform air monitoring today and after. P.W Grosser(Chris Almskog)sending crew to take samples today, as per our conversation today.I also suggested Isaac Swartz to cover the stockpiled soil in order to prevent the odor from spreading.Chris Almskpg indicated that they are working with Keyspan and Contractor A.B. Environmental to schedule the excavation and removal of contaminated soil from under N 11th street sidewalk.(sr)**

06/23/08 I responded to the site with DEC Hasan Ahmed.P.W.G.C rep Jennifer Lewis, AB Environmental, National Grid(KeySpan) rep Douglas Laregina were present at the site.AB Environmental started excavation at MW−1 location.With Keyspan's approval the excavation dimension was approx 9'deep,2'wide and 4' long along N 11th Street.Free product found in the excavation hole that was sucked out by A.B Environmental.Excavation will be back filled today as there is safety issues involved, but will be reopened for more excavation and installation of recovery well.I told PWGC and Issac Swartz that actual dimension of the excavation for efficient and safe recovery of the soil/oil contamination must be determined by a licensed Professional Engineer as per DEC's letter Feb 12'2008.MW−11 was checked for product by a stick and free product was found.MW−12 and MW−4 are also the potential location for free oil contamination.(sr)

07/09/08 I and Jeff Vought discussed sampling result taken from the parking garage area with RSE Mr. Austin.As per RSE, the exceedances of VOC/SVCOs in soil samples are not indicative of petroleum release in that part of the lot and the garage area will be covered with 8" thick concrete slab sealing the pathways for vapor migration, according to the PWGC RAP.However,RSE instructed to check the investigation report of 200 N 11th Street, site west to 204 N 11th for ground water contamination.Phase II investigation report for 200 N 11th Street was checked and only minor exceedances of some VOCs were observed.That spill was closed(0609092).(sr)

10/29/08 Spoke with P.W.Grosser(Kris Almskog)this morning,he said the monitoring wells were surveyed last week and a report will be sent to DEC on quarterly status of the product recovery and monitoring wells.(sr)

** This case is closed and referred to spill 0750535.**

Map Identification Number 125 **AMONIUM HYDROCHLORIDE SPI** **Spill Number: 8604708** **Close Date: 10/23/1986**
215 N. 10TH ST NEW YORK CITY, NY TT−Id: 520A−0040−760

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1814 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ROBINSON BROS. CHEMICALS
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: UNASSIGNED
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/22/1986	10/23/1986	UNKNOWN	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

SPILL FROM VALVE DEP &FD ON SCENE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "
10/10/95: This is additional information about material spilled from the translation of the old spill file: AMONIUM HYDROCHLORID.

Map Identification Number 126 **606 MANHATTAN AVENUE** **Spill Number: 9315136** **Close Date: 11/05/1999**
606 MANHATTAN AVENUE BROOKLYN, NY TT−Id: 520A−0041−414

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1822 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNK
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name: MARCELLA CABRAL
Caller Agency: NYC DEP
Caller Phone: (718) 699−9811
DEC Investigator: ADZHITOM
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/24/1994		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TRANSIT PERSONNEL APPLIED SAND − WILL NOTIFY HAZ MAT − LEAK COMING THRU WALL OF SUBWAY.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHITOMIRSKY"
REFER TO 98−13210 & SP00907.

Map Identification Number 127 **51 KINGLAND AVENUE** **Spill Number: 1204885** **Close Date: 11/27/2012**
51 KINKGLAND AVE BROOKLYN, NY TT−Id: 520A−0277−171

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1825 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: 51 KINGSLAND AVE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: DAVID LIERS − KINGSLAND SERVICE STATION
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: MJHAGGER
Contact for more spill info: DAVID LIERS
Contact Person Phone: 5116) 369−7914

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/14/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL, GROUNDWATER

Caller Remarks:

detected in routine ground water sampling clean up pending

DEC Investigator Remarks:

August 2012: ExxonMobil's consultant, Kleinfelder, found a small quantity of Ethanol in one of the on−site wells (MW−13) at 94ug/l. PM informed EM not to call−in Spills with j−values but apparently they analyzed with a low dilution factor. 50ppb was the quatitation limit. I informed EM that this is was most likely surface run'ff and that if no Ethanol is detected this next quarter the Spill will be closed

November 27, 2012: No subsequent detection of Ethanol. Spill Closed

Map Identification Number 128 **VS 5950** **Spill Number: 0504371** **Close Date: 01/05/2006**

E SIDE KINGSLAND AVE/NEAR FROST ST BROOKLYN, NY TT−Id: 520A−0050−229

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1838 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: KINGSLAND AVE / FROST ST
Revised zip code: UNKNOWN

Source of Spill: UNKNOWN
Spiller:
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: JOHN ANDERSON
Notifier Phone: ( ) −
Caller Name: MARK PIROPATO
Caller Agency: CON ED
Caller Phone: (212) 580−6763
DEC Investigator: GDBREEN
Contact for more spill info: ERT DESK
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/13/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	9.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

E SIDE KINGSLAND AV / 37' N OF FROST ST

on 50 gallons of water
transformer involved − have to pressure test transformer to see if it is leaking. 159710.

DEC Investigator Remarks:

159710.000
W. PINEDO #17237 FOD OPERATOR REPORTS FINDING APPROX 9 GALS OF UNKNOWN OIL ON APPROX 50 GALS OF WATER IN VS5950. NO SEWERS, WATERWAYS, OR PRIVATE PROPERTY AFFECTED. THE SOURCE AND CAUSE OF THE SPILL IS UNKNOWN. THERE WERE NO SUBSTANTIAL CRACKS IN THE STRUCTURE AND THE STANDING WATER HAD NO MOVEMENT. THE EXISTENCE OF ANY SEWER CONNECTIONS, SUMPS, OR DRAINS COULD NOT BE VERIFIED AT THIS TIME. ENV STOP TAG#48666 WAS PLACED AND ONE LIQUID SAMPLE TAKEN. MR PINEDO WILL CHECK OIL LEVEL IN UNIT AND GET BACK TO THE DESK. THIS UNIT WILL ALSO HAVE TO BE PRESSURE TESTED. WAREHOUSE RECORDS DATED 11/8/2002 INDICATE PCB AS 1 PPM LAB SEQ #02−10424−000.

7/13/05 1100HRS J.SANTO BQE WANTS TO UPDATE AMOUNT. REPORTS FOUND APPROX 570 GALLONS OF WATER AND 15 GALLONS OF OIL. UNIT WAS PRESSURE TESTED AND FAILED. UNIT WILL BE CONDEMED.OVER 50 TANKER ORDERED FOR CLEANUP. ENVIR CREWWILL BE DISPACTHED WHEN TANKER ARRIVES. G DONATONE
EPA−NYP004133500

LAB RESULT RECEIVED 7/13/05 − 1344. 05−06975. 12 PPM. TJ − 50495

TRANSF LAB RESULT RECEIVED 7/13/05 − 1451. 05−06988. < 1.0 PPM. TJ − 50495

UPDATE: 7/13/05 − 1705 H. FERNANDEZ − ENV. OPS., REPORTS STRUCTURE DOUBLE WASHED WITH BIO GEN 760. STRUCTURE DRAINED BY ASTORIA TANKER. TAG REMAINS PENDING TRANSFORMER REMOVAL. TJ − 50945

UPDATE 7/13/05 03:30 HRS BQE DINEEN REPORTS THE UNIT WHICH HOLDS 570 GALS AS PER MFG TAG HAS BEEN DRAINED OF 550 GALS, LEAVING THE SPILL AMOUNT AT 20 GALS. ENV TAG REMAINS IN PLACE PENDING REMOVAL OF TRANSFORMER.

UPDATE: 9/26/05 − D. LICHTENSTEIN − ENV. OPS., REPORTS STRUCTURE DOUBLE WASHED WITH BIO GEN 760. TAG REMAINS PENDING TRANSFORMER REMOVAL.

UPDATE − 10/5/05 1600HRS
PAUL SELEGTSOV # 19936 BQE REPORTS UNIT (REACTOR) HAS BEEN REMOVED FROM THE STRUCTURE. ENV. CREW ON LOCATION CLEANING STRUCTURE. NEW UNIT (REACTOR) WILL BE INSTALLED AFTER CLEAN UP.

UPDATE 10/5/05 16:50 HRS ENV OPS BANKHEAD REPORTS THAT THE STRUCTURE WAS DOUBLE WASHED WITH BIO−GEN 760, A SEALED SUMP WAS FOUND, ENV STOP TAG# 48666 WAS REMOVED, AND THE CLEANUP IS COMPLETE.

Map Identification Number 129 **VS5950 − VAULT** **Spill Number: 0401647** **Close Date: 08/31/2004**
KINGSLAND AV/FROST ST BROOKLYN, NY TT−Id: 520A−0050−231

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1838 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: KINGSLAND AVE / FROST ST
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: MR TOJERRA
Notifier Phone:
Caller Name: MARK SCHLAGEL
Caller Agency: CONED
Caller Phone: (212) 580−8383
DEC Investigator: JHOCONNE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/14/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Caller reports labs of 1ppm from 11/03. Spill into 20 gallons of water. Transformer is located in the vault. Cleanup is pending and will be done CoEd crews.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 153400:

FOUND UNDIAPERABLE SHEEN ON 20 GALLONS OF WATER IN VS 5950. NET CREW WILL BE GOING TO LOCATION TO PRESSURE TEST UNIT. HISTORICAL RECORDS INDICATE 1 PPM 11/8/03. CLEANUP PENDING LAB SAMPLE

AND PRESSURE TESTING RESULTS.

LSN 04−03746 PCB <1 PPM

UPDATE: 5/15/04 − 1005

ENV. OPS. REPORTS AN EARTHEN SUMP IN THE STRUCTURE.

UPDATE: 5/15/04 − 1045

J. MIDDLETON − ENV. OPS., REPORTS PRELIMINARY CLEANUP HAS BEEN COMPLETED BY DOUBLE WASHING THE STRUCTURE WITH SLIX. THE EARTHEN SUMP HAS BEEN CEMENTED. TAG REMAINS PENDING PRESSURE TEST BY BQE.

UPDATE: 5/17/04 − 1020

A. BOVE − BQE, REPORTS UNIT PRESSURE TESTED AND HELD PRESSURE. OIL LEVEL & TEMP ARE GOOD. SOME RESIDUAL OIL & WATER ARE IN

STRUCTURE.

Update − 5/18/04 1830hrs

Sam Adedapo Env. Ops Mech all liquids removed from structure with <50 tanker. Double washed structure with 760 biogen. Removed env. stop tag # 12477. Clean up completed.

Map Identification Number 130 **KINGSLAND & FROST AVENUE −MTBE** **Spill Number: 0002006** **Close Date: 09/15/2010**
KINGSLAND AVENUE BROOKLYN, NY TT−Id: 520A−0050−230

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1838 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: KINGSLAND / FROST AVENUE
Revised zip code: 11211

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:	NELSON ABRAHMS	Caller Agency:	METCALF & EDDY	Caller Phone:	(908) 437−7069
DEC Investigator:	SKCARLSO	Contact for more spill info:	ANGELO ELMY	Contact Person Phone:	(718) 391−2123

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/17/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information

OTHER PETROLEUM	UNKNOWN	0	GALLONS	0	GALLONS

Caller Remarks:

TESTING CO FOUND CONTAMINATES IN THE SOIL. ANGELO ELMY IS THE CONTACT CITY OF NY DEPT OF CONSTRUCITON

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
On June 5, 2000, DEC Sigona contacted Angelo Elmay for an update on the discovery of contamination. Left Message on voicemail.
DEC Sigona also contacted Nelson Abrahms and left message req further information.

DEC Sigona received site investigation report dated May 2000 by Metcalf & Eddy. on June 6, 2000.

THE AREA WAS BEING EXCAVATED ALONG GAS STATIONS WHERE A NEW SEWER IS BEING INSTALLED BY DDC.

On September 20, 2005 the DEC received a report dated 6/13/00 "Site Investigation Report, Kingland Ave/Metter Ave. Sewer Project..." by Metcalf and Eddy.

More work needs to be done. Contamination was found, the source is unknown. (March 2006)

11/20/07: Transferred to Sun/Sellberg. (JS/MS)

4/21/08: James Romeo (DDC) no longer works there. Rebecca Tummon, new contact? 718−391−1799 tummonre@ddc.nyc.gov (JS/MM)

08/05/08: Transferred to Kolleeny/Mandac. − JK

08/11/08: Spoke to Dennis Askins. Project was cancelled. Only environmental soil cores were taken. DDC did not investigate further. 78 Kingsland Ave had a UST fuel oil tank excavation; minor SVOC contamination. Kingsland SB−3 had VOC contamination. Sunoco gas station most likely suspect. 78 Kingsland Avenue, Epner Tech., has a tank closure assessment on file. Minor VOC and SVOC in soil. Unlikely. Refer to spill case #8908110 (S. Carlson).

03/03/09: On 2/23/09 I spoke to S. Carlson to see if she had any info on this spill. On 2/27/09, S. Carlson sent an email to John Urda to follow up on status of Spill No. 8908110. She thought these two spills might be able to be consolidated if an investigation was performed. (JK/KG)

08/19/09: Per S. Carlson, Exxon has agreed to perform a site investigation at 51 Kingsland Ave (spill 8908110). Pending the results of the investigation, this spill may be consolidated with spill 8908110. (JK/KG)

9/15/2010 − Carlson: Case consolidated with spill no. 8908110.

Map Identification Number 131 **625 HUMBOLDT STREET** **Spill Number: 9212899** **Close Date: 02/17/1993**
625 HUMBOLDT STREET BROOKLYN, NY TT−Id: 520A−0043−409

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1871 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11222

Source of Spill: PRIVATE DWELLING
Spiller: DMITRA RES
Spiller Phone: (718) 268−4839
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: WALTER URBAN
Caller Agency: BAERENKLAU
Caller Phone: (718) 647−4200
DEC Investigator: CAMMISA
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/17/1993	02/17/1993	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CONTAINED ON CONCRETE FLOOR−SORBENT APPLIED AND P/U−CUSTOMER TO REPAIRTANK

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 132 **IN STREET** **Spill Number: 0613323** **Close Date: 03/13/2007**
MEEKER AVE/ UNION AVE BROOKLYN, NY TT−Id: 520A−0050−752

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1875 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / UNION AVE
Revised zip code: 11211

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	JERARD ALEXANDRE − RELIABLE PAPER RECYCLING	Spiller Phone:	(201) 333−5244
Notifier Type:	Fire Department	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	hrpatel	Contact for more spill info:	OFFICER ON DUTY	Contact Person Phone:	(718) 476−6288

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/12/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	20.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

GARBAGE TRUCK HIT CURB AND PUNCTURED TANK ON VEHICLE; HAS BEEN CLEANED; BEIVE 2 GALLONS ENTERED SEWERS;

DEC Investigator Remarks:

03/13/07−Hiralkumar Patel. spoke with Celest Okoli (347−672−6059) during off hour duty on yesterday. Celest works with DEP. he was at scene. spill was happened after truck hit curb and broke saddle tank. as per Celest, FDNY left drums filled with diesel on street (not on sidewalk) in corner and could be hit by another vehicle during night. Celest asked DEC to remove these drums. discussed with DEC Austin. he told that DEC will not remove these drums as spill happened from truck and have information of responsible party. regarding location of drums on street, he suggest to call FDNY as they left drums on street.
spoke with Celest again and asked him to call FDNY to relocate drums on safe location.
Celest gave truck company's info:

Reliable Paper Recycling
ph. (201) 333−5244

left message at reliable recycling to remove drums from location.

received call from Bob from Reliable recycling today morning. they are removing drums.

all cleaned up. case closed.

Map Identification Number 133 **104 KINGSLAND AVE/BKLYN** **Spill Number: 9012712** **Close Date: 03/15/1991**
104 KINGSLAND AVENUE BROOKLYN, NY TT−Id: 520A−0044−675

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1875 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: Spiller Phone:
Notifier Type: Affected Persons Notifier Name: Notifier Phone:
Caller Name: ARMANDO AMELIS Caller Agency: CITIZEN Caller Phone: (718) 599−5506
DEC Investigator: SJMILLER Contact for more spill info: Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/15/1991	03/15/1991	UNKNOWN	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

STRONG ODOR FROM BASEMENT,DEC INSPECTED BASEMENT,NOTED SUMP WITH CLEAN3" DRAIN BUT FRESH WATER RUNNING INTO SUMP THRU WALL,POSSIBLE BUSTED WATER PIPE,PAINT LIKE ODOR IN BASEMENT & UPSTAIRS.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MILLER"
03/15/91: DEC INVESTIGATED NEARBY DRUM RECYCLING FACILITY,OPERATOR INDICATED NO CHEMICALS WERE DISCHARGED INTO SEWERS,5 FT DEEP SUMP ON PROPERTY,DEC CONTACTED NYCDEP(IWCS).

10/10/95: This is additional information about material spilled from the translation of the old spill file: STRONG ODOR/SEWAGE.

Map Identification Number 134 **COMMERICAL VACANT LOT** **Spill Number: 0801333** **Close Date: 06/03/2011**
235−239 N 9TH STREET BROOKLYN, NY TT−Id: 520A−0215−912
NE CORNER OF ROEBLING

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1882 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RVKETANI	Contact for more spill info:	RAY KAHN	Contact Person Phone:	(212) 363−3775

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/02/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

recieved lab results from a historical site; unknown if it is petroleum or not;

DEC Investigator Remarks:

This site is East side of Roebling/North side of N 9th
Sarah Carlson site is south side of N 9th
Other DEC sites are West of Roebling

6/11/10−Vought−Spill transferred from DEC Vought to DEC Ketani as per DEC Austin and Vought transfer to Section A.

8/25/10 − Raphael Ketani. I made an unannounced site visit. The site was a vacant lot. The south end of the lot had lots of refuse and other debris, but no indications that liquids were being dumped here. The north end of the lot was bare. In the middle of the lot, there were some private vehicles and some roll off containers with what looked like refuse in them.

8/26/10 − Raphael Ketani. The spill took place on 5/2/08 and involved the discovery of some type of material at the site. The spill report indicates that the type of material was not known at the time of the incident.

According to Property Shark, the site is block and lot 2307 and 38. Property Shark shows a picture of a large one story commercial building with no windows. The address is listed as both 35−43 Roebling Street and 235−239 North 9th Street. According to ACRIS, Wing Hon Holding Inc., 2 Rewe Street, Brooklyn, NY, 11211 sold the property on 11/30/07 to 243 North Group, LLC, 543 Bedford Avenue, Brooklyn, NY, 11211.

There is only one PBS registration in the database and no other Spill reports. The PBS is #2−609544. There were 2 550 gal. ASTs in above ground enclosures. Both were closed and removed.

There is no paper file. There are no E−docs.

I tried to contact Ray Kahn of the environmental consulting firm ESPL (212) 363−3775/cell (917) 939−7366. However, I could only leave a message requesting information regarding what was found at the site.

10/13/10 − Raphael Ketani. I spoke to Mr. Kahn (917) 939−7366 regarding the site. He said that the investigation didn't move forward because of the real estate market crash. He said since the DEC is now interested in what's below the site, he will look into the matter and call me back.

12/2/10 − Raphael Ketani. As there has been no information forthcoming from Mr. Kahn, I sent a CSL to 243 North Group, LLC.

12/14/10 − Raphael Ketani. The CSL came back to DEC unopened and marked "refused." I rechecked ACRIS for the latest address for 243 North Group, LLC. I found a document dated 4/15/10 that showed the latest address to be 80 Clay Street, Brklyn, 11222. I resent the CSL to this address.

3/3/11 − Raphael Ketani. As there has been no response from the owners of the site, I sent a followup letter. I set a deadline of April 1 for receipt of the investigation report.

4/1/11 − Raphael Ketani. There has been no response from the owners of the property to the followup letter. Therefore, I sent a STIP package with a deadline of 5/2/11 for the return of the signed STIP.

5/3/11 − Raphael Ketani. Today I received the unopened envelope containing the STIP package. The envelope had a post office sticker indicating that it was unclaimed. I will attempt to hand deliver the STIP.

I made unannounced site visits to two locations in an attempt to locate the owners of the site and their mailing location. The first location I went to was 80 Clay Street in the Greenpoint section of Brooklyn. This turned out to be a one story, yellow commercial building. There was a large Jewish mezzuza on the door frame. I knocked on the door, but no one answered. There was a sign on the door that indicated people should go to 1109−1113 Manhattan Avenue, the cross street location around the corner. I entered the building and met the security guard. He said that 1109−1113 Manhattan Avenue was an apartment building for recovering drug addicts. I saw two sheets of paper behind him with lists of different LLCs which receive their mail here. However, 243 North Group was not one of them. He said that the building at 80 Clay Street had been recently sold (this is what ACRIS shows), but he had never heard of 243 North Group, LLC.

Next, I went to 543 Bedford Avenue in the Williamsburg section of Brooklyn. This was the previous mailing address for 243 North Group, LLC. The location was a small, red apartment building. The entrance to the building was around the corner on the minor cross street. I entered an office which advertised mostly insurance coverage, among other things. I spoke to an orthodox Jewish man who came from the back. He said that unless I had a person's name or post office box number, he could not help me. I left my business card anyway.

I returned and tried ACRIS. There were various UCC3 assigned parties, but it was not clear who should be sent the STIP. Property Shark was no help, either. I tried the NYS corporation database and saw a new mailing address. This was "c/o PERL, 138 Ross Street, Brooklyn, NY, 11211." I will resend the STIP to this address tomorrow.

5/4/11 − Raphael Ketani. I resent the STIP to PERL at 138 Ross Street with a deadline of June 3 for receipt of the signed STIP page.

6/3/11 − Raphael Ketani. I never received the signed STIP or the green return card.

As it was not determined that the substance found was oil when the investigation took place in 2008, and as there is no evidence to confirm or deny that oil substance was oil, and as my site visit on 8/25/10 did not reveal that an oil spill had taken place or that an oil release was likely, and as attempts to contact the owner in order to find out what had been discovered were fruitless, I have determined that there is no basis upon which to continue to have an active spill case for this site. Therefore, I closed the spill case today.

Map Identification Number 135 **44 NEWELL STREET** **Spill Number: 9309647** **Close Date: 12/23/2002**

44 NEWELL STREET BROOKLYN, NY TT−Id: 520A−0044−685

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1890 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 44 NEWEL STREET
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: NEWELL FUEL OIL COMPANY
Spiller Phone: (718) 383−1133
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: STEVE MILLER
Caller Agency: NYS DEC
Caller Phone: (718) 482−4933
DEC Investigator: SJMILLER
Contact for more spill info:
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Any Type of RP, Including No RP − DEC Field Response − Corrective Action Not Required or Not Possible

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/08/1993		UNKNOWN	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SOIL

Caller Remarks:

ANOTHER CITIZEN OIL COMPANY ACROSS ST. TOOLS W/FUEL AND ODORS ARE GENERATED DURING HEATING SEASON.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MILLER"
1/24/94 @1500hrs, MILLER INSPECTED NOTIFIER'S (NEIGHBOR) BASEMENT: NO ODOR AND NO EVIDENCE OF RELEASE. ALSO CHECK OIL COMPANY ACROSS STREET: NO MAINTENANCE, NO IMPROPER STORAGE, NO OIL WATER SEPARATOR, 275−GAL AST IN BASEMENT BUT NO GROSS SPILLAGE AND NO ODORS. ACCORDING TO OIL COMPANY DEP INSPECTED FACILITY 2−WEEKS EARLIER BUT ISSUED NO NOV'S.

ADVISED NEIGHBOR TO CALL ME IF ODOR RETURNS.

Map Identification Number 136 **APARTMENT BLDG** **Spill Number: 1113750** **Close Date: 03/26/2012**
243 JACKSON STREET BROOKLYN, NY TT−Id: 520A−0271−619

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1901 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: HRPATEL
Contact for more spill info: ANDREW KELLY
Contact Person Phone: (718) 595−4761

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/09/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0.01	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Oil suspected to be coming from 33 Kingsland Ave. DEP unable to gain access to bldg. Unknown owner at this time. Further is pending.

DEC Investigator Remarks:

03/09/12−Hiralkumar Patel.
2:56 PM:− spoke with Andrew at DEP. he mentioned that owner of 243 Jackson Street reported an oil seepage into his basement. Andrew inspected site and found few ounces of oil seeping through basement wall. there is a gas heating system at impacted site. he tried to inspect next door building at 31 Kingsland Ave, but no success.

3:03 PM:− spoke with Albert Long, owner of 243 Jackson Street. he owns 243 Jackson street (property at the northwest corner of

Jackson Street and Kingsland Ave). he mentioned that oil found in basement of his building. he has gas heating system, but building at 31 Kingsland Ave has oil heating system.

Albert Long **owner of building 243**
1417 Jefferson Avenue
Brooklyn, NY 11237
Ph. (347) 247−9543
email: cienlada@aol.com

Mellys Long
Ph. (347) 987−9541

as per DOB application approved on 12/28/04, oil burner was replaced with gas burner at Mr. Long's property. <−−−−−−−−−−−−−−

alternate address for 243 Jackson Street: 243−251 Jackson Street, 31A Kingsland Ave
no PBS record found for 243 Jackson Street.
old spill # 0409577 found for 243 Jackson Street. the spill was reported on 11/26/04 due to a petroleum release from a 275 gal tank located closer to the wall. the case was closed based on property owner's statement, but no cleanup report submitted.

alternate address for 31 Kingsland Ave: none
no PBS or spill record found for 31 Kingsland Ave.

4:00 PM:− visited site. met Teresa, building super for 243 Jackson St. its four story buiding with basement. building 243 runs east−west along the north side of Jackson Street. ground floor of the buiding 243 is occupied by: a grocery store (Neighborhood Grocery) at the eastern end of the property (at the northwest corner of the intersection of Jackson St and Kingsland Ave), apartment building entrance in middle and a restaurant (718−349−2400) on the western end of the property. inspected basements under the apartment building and grocery store. found oil on water in the northwest corner of the grocery store basement. oil/water mix also found in the northeast corner of the apartment basement, at the end of the basement stairs. the boiler room is located in the eastern part of the apartment basement. there is a small open area behind the boiler room, between the subject site and the adjacent building at 31 Kingsland Ave. found oil/water in this open area. during inspection, minor odors noticed in basements.

inspected basement at building 31 Kingsland Ave. suspected site has two 275 gal ASTs on legs. no sign of oil spill found under the tanks. fill and vent lines runs aboveground. the two tanks are located along the southern foundation wall in the eastern part of the basement. tank location is along the grocery store basement at building 243. boiler at building 31 is located in the northwestern corner of the basement and supply line between the tank and boiler runs underground. basement at building 31 is about 4 ft higher than basement at building 243.

based on location of tanks at building 31 and most impact in the grocery basement at building 243, oil may have spilled from an underground supply line at building 31.

03/12/12−Hiralkumar Patel.
12:54 PM:− left message for Mr. Long.
1:15 PM:− visited site. met Mr. Long. inspected basement under the restaurant, the apartment and the grocery store.

its a finished basement under the restaurant. no sign of any water or oil seepage found in the basement.

during site inspection, Mr. Long showed location of his old tanks. the tanks at building 243 were located along the southern foundation wall in center of the basement and just right of the basement entrance (which is left of the restaurant entrance) from sidewalk. Mr. Long mentioned that fill port and a vent line for old tanks in his building were located just left of the apartment building entrance (in area between the apartment entrance and restaurant entrance). no sign of oil/water seepage found where the old tanks were located. inspected other parts of basement where oily water observed during site visit on 03/09/12. no oil found at the end of the basement stairs or boiler room or an open area behind the boiler room. during today's inspection, found a drain in the open area and a drain pipe going towards the grocery basement. its looks like whatever oil found in open area and in the northeast corner of the apartment basement, might have came through the drain pipe from the grocery basement.
during inspection of the grocery basement, found a sump like structure in the northwest corner and oil/water in the corner. asked Mr. Long to remove oily water and seal the corner which will prevent further seepage.

Mr. Long mentioned that they had changed a main sewer line about 8 months ago, but they never so oil seepage before. oil spill found by grocery store person when they noticed petroleum odors in grocery basement about two weeks ago.

during inspection, met Lorenzo Ayala, president of co−op board for building 31. there are six co−op units in the building. discussed about possible leak from an underground supply line at building 31. asked him to perform a tightness test of the line and submit result by the end of 03/14/12.

31 Kingsland Ave Housing Development Fund Corporation **owner of building 31**
c/o Lorenzo Ayala **co−op president**
31 Kingsland Avenue, Unit 1R
Brooklyn, NY 11211
Ph. (347) 251−4123

Erica Erazo **co−op unit owner at building 31**
31 Kingsland Avenue, Apt. 2R
Brooklyn, NY 11211

Diana Hodge **co−op unit owner at building 31**
31 Kingsland Avenue, Apt. 2L
Brooklyn, NY 11211

3:28 PM:− spoke with Dennis at Ferrentino Fuel and requested a copy of delivery record for building 31 from Jan. 2011 to Mar. 2012. he asked to send email.

Dennis Gooldstein
Ferrentino Fuel **oil delivery company for building 31**
Ph. (718) 832−6700
email: dennis@ffcenergy.com

3:30 PM:− sent email to Dennis and asked to send delivery record from Jan. 2011 to Mar. 2012.

based on available information, chagned following information in the original spill report (see copy on e−docs):
− spill name: "intersection" to "apartment building"
− site address: "Jackson St & Kingsland Ave" to " 243 Jackson Street"

3:54 PM:− left message from Mr. Long.

03/13/12−Hiralkumar Patel.
10:16 AM:− spoke with Mr. Long. they are going to pump out oil/water today. asked him to call for inspection after pump out and prior to sealing the sump.
10:32 AM:− received call from Mr. Ayala. he mentioned that about two weeks ago, building 39 Kingsland Ave changed from oil to gas heating system and Mr. Ayala suspects that owner of building 39 has dumped excess oil into sewer system. he asked to meet at the site and will provide evidence. informed him that regardless of findings at building 39, the department still requires tightness test of the supply line in his building. informed him about possible site visit tomorrow morning. he will try to have line test done during the site inspection tomorrow morning.
10:40 AM:− received email from Ferrantino Fuel including delivery record for bldg 31 from Oct. 2011 to Mar. 2012. based on delivery record, occupants of bldg 31 used average of about 17−19 gal per day since Oct. 2011 and there is no sudden increase in oil use.

03/15/12−Hiralkumar Patel.
10:00 AM:− visited site. inspected grocery store basement. oily water was removed from basement, but some more oil came into sump. asked cleanup guy to remove the product from sump.
spoke with Mr. Ayala. he mentioned that a technician from his own company checked the system and confirms no leak. informed him that a tightness test of the supply line must be performed and a certified result must be submitted to the Department. Mr. Ayala mentioned that his sister lives in building 39 and will call back with landlord's number for building 39.
10:32 AM:− received message from Mr. Ayala with contact info for property owner for building 39.

Zev Zafir Inc. **owner of 39 Kingsland Ave**
Shloma Stuhl
President
543 Bedford Avenue #239
Brooklyn, NY 11211
Ph. (718) 387−7584

1:10 PM:− spoke with Mr. Long. suggest him to continue cleanup. asked him to call for site inspection before he seal the sump.
2:43 PM:− left message at Zev Zafir Inc.
3:00 PM:− received call from Shloma Stuhl from Zev Zafir Inc. he mentioned that they have gas heating system for more than six months. they only modified gas line on 03/01/12. scheduled a site inspection at 10 AM tomorrow morning. George (917−721−2470) will provide access to building 39.

03/16/12−Hiralkumar Patel. called George multiple times, but no answer. did not visited building 39.

03/19/12−Hiralkumar Patel.
3:45 PM:− visited site. inspected grocery basement. oil hasn't cleaned up yet. no increase in the amount.

03/21/12−Hiralkumar Patel.
9:27 AM:− left message for Mr. Long. informed him that spill in grocery store basement must be cleaned up immediately.

03/22/12−Hiralkumar Patel.

03/23/12−Hiralkumar Patel.
2:04 PM:− spoke with Mr. Long. he mentioned that contractor pumped out oily water from sump until it cleared out.
2:09 PM:− spoke with Elizabeth at 95 Inc., contractor who pumped out oil/water. she mentioned that they pumped out about 50 gal of oily water. she will ask driver to call back, who responded to the site.

Elizabeth
95 Inc.
Ph. (631) 842−9817

2:23 PM:− received call from Dino, driver from 95 Inc. he mentioned that after pumping about 50 gal, he found mostly clear water.

03/26/12−Hiralkumar Patel.
9:15 AM:− visited site. inspected grocery store basement. found mostly muddy water, with some oily water (less than 1 ft by 1 ft area) away from sump area.

received fax from Elizabeth including a disposal manifest.

3:35 PM:− spoke with Mr. Long. asked him to remove the last spot of oily water. informed him that as no more oil coming into the basement, case can be closed. suggested him to seal the basement.

after discussing with DEC Austin, case closed.

Map Identification Number 137 **BMT L LINE** **Spill Number: 0607434** **Close Date: 10/10/2006**
LORIMER/METROPOLITIAN BROOKLYN, NY TT−Id: 520A−0048−000

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1903 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: LORIMER ST / METROPOLITAN AVE
Revised zip code: 11211

Source of Spill: RAILROAD CAR
Notifier Type: Other
Caller Name:
DEC Investigator: SMSANGES

Spiller: DISPATCHER 727 − BMT L LINE
Notifier Name:
Caller Agency:
Contact for more spill info: DISPATCHER 727

Spiller Phone: (718) 965−8261
Notifier Phone:
Caller Phone:
Contact Person Phone: (718) 965−8261

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/29/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

train is being evacuated− unknown what happened and still investigating

DEC Investigator Remarks:

not a petroleum related problem

Map Identification Number 138 **METROPOLITIAN AV AND** LORIMER ST BROOKLYN, NY **Spill Number: 0002207** **Close Date: 11/25/2002** TT−Id: 520A−0042−559

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1903 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: METROPOLITAN AVE / LORIMER ST
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: DIANE ALFIERI
Caller Agency: CITIZEN
Caller Phone: (212) 708−3791
DEC Investigator: JMROMMEL
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/21/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	20.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

caller noticed greenish material on road yesterday and would like it looked into as to what the material is. caller req a call asap

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
Robert L. called.

Caller said that liquid spread out onto four block radius after may 21, sunday's rain. probably started near an empty lot. can see liquid clearly in potholes union ave. no smell of oil or gasline dep was called [case#165296 stan siebenbery] who in turn called sanitation

Map Identification Number 139 **DOUBLE GREEN** **Spill Number: 9614038** **Close Date: 03/17/2003**
122 KINGSLAND AVENUE BROOKLYN, NY TT−Id: 520A−0041−952

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1932 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL VEHICLE
Notifier Type: Affected Persons
Caller Name: ALLADEEN, BEBI
DEC Investigator: TOMASELLO

Spiller: DOUBLE GREEN
Notifier Name: ALLADEEN, BEBI
Caller Agency: CITIZEN
Contact for more spill info:

Spiller Phone:
Notifier Phone: (718) 599−0493
Caller Phone: (718) 599−0493
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/03/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT THIS IS AN ON−GOING PROBLEM WITH THE COMMERCIAL VEHS LEAKING OIL AND OTHER FLUIDS ALL OVER THE ROAD GOING INTO THE PLANT AND OFF THE PROPERTY − HER CHILD HAS FALLEN IN IT AS WELL AS OTHER CHILDREN IN THE AREA

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TOMASELLO/TANG"
Referred To Eco.3/17/2003 − Closed Due To The Nature / Extent Of The Spill Report.

Map Identification Number 140 **DELI** **Spill Number: 0013079** **Close Date: 04/05/2001**
112 NASSAU AVE BROOKLYN, NY TT−Id: 520A−0044−923

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1951 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: 112 NASSAU AV
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: SON'S WORK TEL # − ROBERT BAK (OWNER'S SON)
Spiller Phone: (718) 628−9700
Notifier Type: Local Agency
Notifier Name: FIRE HAZMAT
Notifier Phone: (917) 769−0483
Caller Name: CHERELLE MAYFIELD
Caller Agency: DEP
Caller Phone: (718) 595−6777
DEC Investigator: SMSANGES
Contact for more spill info: FF RIPOLL
Contact Person Phone: (917) 769−0484

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/14/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

spill in inside deli's basement fd on the scene

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
3/14/2001 − Store front building with 3−4 apartments above.

2−275 gallon #2 oil tanks in the basement service the building.

Scaggs & Walsh Oil Company made a delivery (no sign of overfill) Later that day the bottom of one of the tanks (looks like corrosion) gave way and approx 100 gallons went to the basement floor and a drywell floor drain.

NYFD on scene emptied most of the 275 gallon tank into overpack drums. Scaggs & Walsh arrived on the scene and pumped out whatever remained. Scaggs & Walsh's insurance would not cover the loss because the tank is the property of the building owner and the tank failed due to corrosion. Scaggs & Walsh hired Milro Associates after a verbal discussion with the building owner (Robert Bak 718−628−9700) that the cost of the clean up was the responsibility of the building owner.

3/16/2001 − Sangesland called Milro to find the cleanup status. Paul (at Milro) said between 3/14 and 3/15 a 5'x8' section of the floor was opened up and dug down 2' and 2 cubic yards of contaminated soil was removed. Milro is not working today (3/16) because Scaggs & Walsh is installing new oil tanks. Milro will return on Monday 3/19 to continue excavation.

3/20/2001 Paul at Milro says the excavation is approx 5' x 10' x 3' deep. Because of access problems they can't really excavate any more and he'll probably spend one more day on site. Paul said he would PID the samples first and if they don't look bad, he'll back fill before the soil samples come back from the lab.

4/5/2001 End point sample from excavation was tested for:

TCLP Volatiles 8021/STARS (All results were "Non−Detect")

TCLP Polynuc, Arom. Hydrocarbons (BN) 8270 − "Non−Detect"

Spill closed 4/5/2001

Map Identification Number 141 **COMMERCIAL PROPERTY** **Spill Number: 0609092** **Close Date: 04/30/2007**
200 NORTH 11TH STREET BROOKLYN, NY TT−Id: 520A−0048−947

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1951 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: ZEB YOUNGMAN − COMMERCIAL PROPERTY
Spiller Phone: (631) 589−6353
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: ZEB YOUNGMAN
Contact Person Phone: (631) 589−6353

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/08/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DURING SOIL INVESTIGATION FOUND CONTAMINATED SOIL: UNCLEAR OF SOURCE STILL INVESTIGATING

DEC Investigator Remarks:

Sangesland spoke to Zeb Youngman at PW Grocer. He says they did a phase 2 on the site in Late Oct 2006 (labresults not back yet)
5 soil borings − all had petroleum oder and water had oil sheen. widespread problems throughout site.
204 North 11th st (next door) has an open spill number managed by Sharif Rahman and the site is upgradient of this site.
PW Grocer will take additional soil borings to prove the contamination is coming from 204 North 11th.
*********Sharif Rahman is case manager for 204 North 11th St.**********
01/05/07 Rahman− A CSL was sent to (extracted from property shark)

Louise Deyirmenjian
80 Virginia Dr
Manhasset, NY 11030
Case has been transferred to Rahman as he has a spill adjacent to this site.
04/30/07 AES was retained to prepare a Phase II report.The site has a single−story concrete and brick building.The site is a "E" designated site.One UST existed on site and has been removed.One test pit(8−10') was excavated on north side of the lot. Three other soil borings were conducted at three different locations.Eight soil samples were analyzed for VOCs/SVOCs.No VOCs were detected above TAGM, no evidence of free product observed.There were some SVOC exceedances; compound detected are typical of historic urban fill.Comparision of th ePhase II performed by AES and PW Grosser indicate that type of contaminants and concentrations are consistent.AES concluded that containants identified in Phase II investigation consistent with historic urban fill and not petroleum contamination.NFA required.Reports in edocs.(SR)

** There is an open spill case(Spill#0605974) at 204 N 11th Street,which is adjacent to this property.Mccaren Park Mews is the owner of 204 N 11th Street.**

Map Identification Number 142 **SANITATION COMPANY** **Spill Number: 9903762** **Close Date: 07/06/1999**
244 SKILLMAN AVE BROOKLYN, NY TT−Id: 520A−0044−681

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1986 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: SANITATION COMPANY
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: JAMES KAMPIL
Caller Agency: CITIZEN
Caller Phone: (718) 384−3441
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/01/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

caller states that there is a strong odor comingb from property

caller would like a call back

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
7/1− 1:30PM CALLED KAMPIL SMELLS LIKE PAINT THINNER− GARBAGE TRUCKS ARE WASHED WITH CHEMICALS, NEIGHBOR SAID IT THE SMELL IS REALLY STRONG. WOULD LIKE SOMEONE TO LOOK AT THE PROPERTY.

NO ODORS, SKILLMAN CONTRACTING CLAIMED NOT TO WASH TRUCKS ONSITE. CALLER DOES NOT WANT TO PURSUE FURTHER.

Map Identification Number 143 **18 DIVISION PL/BKLYN** **Spill Number: 9103684** **Close Date: 07/03/1991**
18 DIVISION PLACE NEW YORK CITY, NY TT−Id: 520A−0044−677

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1987 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: GOODMAN BARREL CO
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: RANDALL AUSTIN
Caller Agency: NYSDEC
Caller Phone: (718) 482−4933
DEC Investigator: RWAUSTIN
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/28/1991	07/03/1991	OTHER	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

REQUEST BY ASSEMBLYMAN LENTOL'S ON SPILL EVENT AT ABOVE SPILL LOCATION,NEIGHBORS OF SITE CONCERNED AS TO WHAT HAPPENED,DEC (AUSTIN) GOT REPORT FROM NYCDEP (HERNANDEZ).

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"
07/03/91: FIRE STARTED OUTSIDE BLDG THAT MELTED TWO DRUMS OF MURIATIC ACID, SPILL CONTAINED ON PROPERTY & CLEANED UP BY RESPONSIBLE PARTY,INFO CONVEYED TO ASSEMBLYMAN'S OFFICE.

Map Identification Number 144 **GOODMAN BROT STEEL DRUMS** **Spill Number: 0109317** **Close Date: 02/13/2003**
18 DIVISION ST BROOKLYN, NY TT−Id: 520A−0044−688

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1987 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SAME
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: CRAIG GOODMAN
Caller Agency: GOODMAN BROTHERS STEEL DR
Caller Phone: (718) 782−3027
DEC Investigator: SMSANGES
Contact for more spill info: CRAIG GOODMAN
Contact Person Phone: (718) 782−3027

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/20/2001		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTEWATER	OTHER	1.00	GALLONS	1.00	GALLONS	SOIL

Caller Remarks:

WHILE DOING MAINTAINCE ON A PUMP APPROX 1 QT OF WASTE WATER LEAKED

OUT − ALL MATERAL CLEANED UP

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
ADMINISTRATIVE CLOSURE − AUSTIN

Map Identification Number 145 **GOODMAN BROT STEEL DRUMS** **Spill Number: 0109316** **Close Date: 07/07/2003**
18 DIVISION PL BROOKLYN, NY TT−Id: 520A−0044−676

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1987 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SAME
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: CRAIG GOODMAN
Caller Agency: GOODMAN BROTHERS STEEL DR
Caller Phone: (718) 782−3027
DEC Investigator: SMSANGES
Contact for more spill info: CRAIG GOODMAN
Contact Person Phone: (718) 782−3027

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/20/2001		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MOTOR OIL	PETROLEUM	3.00	GALLONS	3.00	GALLONS	SOIL

Caller Remarks:

WHILE DOING ROUTINE MAINTAINCE ON COMPRESSOR 2−3 GAL OF MOTOR

OIL SPILLED FROM MACHINERY

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"

Map Identification Number 146 **MANHOLE 16282** **Spill Number: 9902735** **Close Date: 05/18/2000**
IFO 288 NO 8TH ST BROOKLYN, NY TT−Id: 520A−0044−449

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2011 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: IFO 288 N 8TH ST
Revised zip code: 11211

Source of Spill: UNKNOWN
Notifier Type: Affected Persons
Caller Name: STEVE ROMERO
DEC Investigator: JHOCONNE
Spiller: UNKNOWN
Notifier Name:
Caller Agency: CON EDISON
Contact for more spill info: CALLER
Spiller Phone:
Notifier Phone:
Caller Phone: (212) 580−6763
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/09/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER REPORTS 2 GALLONS ON 15 GALLONS OF WATER. CON ED #125460.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

approx 2 gallons unknown oil on 15 gallons water in mh. Results: 7ppm, cleanup complete and tag removed. Incident is closed.

Map Identification Number 147 **CON ED VAULT #4233** **Spill Number: 0400590** **Close Date: 07/16/2004**
JACKSON/KINGSLEY BROOKLYN, NY TT−Id: 520A−0042−700

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2021 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: JACKSON ST / KINGSLAND AV
Revised zip code: 11211

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	ERT DESK − CON ED VAULT #4233	Spiller Phone: (212) 580−8383
Notifier Type:	Responsible Party	Notifier Name:	BILL MURPHEY CON ED	Notifier Phone: (212) 580−6763
Caller Name:	BILL MURPHEY CON ED	Caller Agency:	CON ED	Caller Phone: (212) 580−6763
DEC Investigator:	SKARAKHA	Contact for more spill info:	ERT DESK	Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/19/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	50.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

vault contains a oil transformer but unsure if that is where it is cominmg from: unsure amount and how it happened: vault was smoking, historic pcb is 10parts per million from 1985: on 500 gallons of water

DEC Investigator Remarks:

e2mis no. 152970:

FOUND 50 GALLONS OF UNKNOWN OIL ON 500 GALLONS OF WATER IN V4233.

AT THIS TIME OIL APPEARS TO BE CONTAINED. THERE WAS SOME SMOKE WHEN ARRIVED ON LOCATION BUT SINCE THEN HAS STOPPED. THERE IS A SEWER CONNECTION (VIA SUMP PUMP) AND SUMP PUMP WAS NOT RUNNING. NO SAMPLE WAS TAKEN AT THIS TIME UNTIL UNIT COMES OFF, AND AT THAT TIME SAMPLE WILL BE TAKEN FROM UNIT. HISTORICAL RECORDS

INDICATE 10.PPM 1985 AND MANUF IS G.E. UNABLE TO DETERMINE WHAT THE CAPACITY IS AND WILL PRESSURE TEST ONCE FEEDER COMES OFF. THIS JOB WILL BE TREATED AS A 50−499 CLEANUP.

ENGINEERING RECORDS INDICATE DRAINAGE IS SEWERED.

PALLADINO REPORTS ONE PURE LIQUID SAMPLE TAKEN FROM STRUCTURE.

Lab Sequence Number: 04−02955−001 Aroclor 1260 441.5 ppm

QC ID: 07−200404181147 Second Sample TOTAL PCB 371 ppm

4/21/04 18:07 HRS. −− A. ADLER, O.S. BROOKLYN/QUEENS EQUIPMENT GROUP, REPORTS TRANSFORMER IS REMOVED.

4/21/04 19:50 HRS. −− A. ADLER OF EQUIPMENT GROUP REPORTS STRUCTURE DOUBLE WASHED WITH BIOGEN 760 & SLIX BY R. ESPONDA. TAG

REMOVED. JOB 100% COMPLETE.

Map Identification Number 148 **NYS DOT − BQE** **Spill Number: 9502369** **Close Date: 05/25/1995**
KINGSLAND & MEEKER AVES BROOKLYN, NY TT−Id: 520A−0042−819

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2022 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: KINGSLAND AV / BROOKLYN QUEENS EXWY
Revised zip code: 11222

Source of Spill: UNKNOWN
Spiller: NO SPILL
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name: MRS. HAWKINS
Caller Agency: NYCDEP
Caller Phone: (718) 595−6700
DEC Investigator: MMMULQUE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/25/1995	05/25/1995	OTHER	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CITIZEN STATED DRUM IS LEAKING UNKNOWN CHEMICAL AT INTERSECTION − TRY CALLING THE CITIZEN AND THERE WAS NO ANSWER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"

Map Identification Number 149 **MANHOLE 4939** **Spill Number: 9901889** **Close Date: 10/18/1999**
564 METROPOLATAIN AVE BROOKLYN, NY TT−Id: 520A−0047−067

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2061 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 564 METROPOLITAN AVE
Revised zip code: 11211

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	FRANK MASSERIA	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	SAME	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/18/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

con ed #124959 spill in manhole pending cleanup

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

Approx 1 gallon unknown fluid on approx 15 gallons water in mh, 564 Metropolitan ave, does not look like oil contained, does not see any sewer connection− cant tell if there is a sump due to water. Sees just primary cable in structure no joint regulator.
He called chem lab and they're on their way to take 2 samples id and pcb. Color of water is brownish color and is poamy.

<1ppm pcb

unknown liquid: 1 gal

pcb 1ppm

AROCLOR 1242 1PPM

AROCLOR 1254 1PPM

AROCLOR 1260 1PPM

<1.0 PPM CLEANUP COMPLETE AND TAG REMOVED. Incident is closed.

Map Identification Number 150 **MONITOR ST & DRIGGS AVE** **Spill Number: 9203429** **Close Date: 06/29/1992**
MONITOR ST & DRIGGS AVE BROOKLYN, NY TT−Id: 520A−0038−085

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2062 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: MONITOR ST / DRIGGS AVE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller:
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: C SCHUBERT
Caller Agency: US GEOLOGICAL SURVEY
Caller Phone: (516) 938−8830
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/15/1992	06/29/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

Caller Remarks:

OBSERV. WELL SITE IS UNDER LARGE PLATE OF ASPHALT AND COMBINING IS MARKEL TO SHOW SITE SITE IS ACROSS STREET FROM P.S. 110 K−3260 IS WELL NUMBER −LOCAL IDENTIFIER DEC FIELD OFFICE WAS NOTIFIED

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"

Map Identification Number 151 **MANHOLE 4376 AND BEDFORD** **Spill Number: 9914569** **Close Date: 03/27/2002**
AVE AND LOROMIER AVE BROOKLYN, NY TT−Id: 520A−0050−307

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2069 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: BEDFORD AVE / LORIMER AVE
Revised zip code: 11222

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: SAME
Notifier Phone:
Caller Name: JAY FOX
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: JAY FOX
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/24/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	1.00	GALLONS	0.00	GALLONS	SOIL
The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information						
OTHER PETROLEUM	UNKNOWN	1.00	GALLONS	0.00	GALLONS	

Caller Remarks:

the have a 2 quart oil spill in thier manhole oil is sitting on water.con ed 130553

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

Map Identification Number 152 **MH 4374** **Spill Number: 0007726** **Close Date: 12/13/2001**
NASSAU AV/LAURAMAR AV BROOKLYN, NY TT−Id: 520A−0042−593

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2069 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NASSAU AV/LORIMER ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: CHRIS HOGAN
Notifier Phone:
Caller Name: RICHARD ROACH
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/01/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
RAW SEWAGE	OTHER	0	GALLONS	0	GALLONS	SOIL
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

133705 sample taken clean up pending

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis #133705 Notes:

10−1−00 Found 2 pints unknown oil on 200gal water mixed with several gallons human waste. Chem Lab results returned <1ppm PCB. Environmental Operations reports cleanup completed by double washing with slix. Liquids removed by tanker, solids by vactor. No leaking equipment.

Map Identification Number 153 **AUNT HEDDY'S BAKERY** **Spill Number: 0608858** **Close Date: 10/04/2007**
234 NORTH 9TH STREET BROOKLYN, NY TT−Id: 520A−0048−950

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2092 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SHARISSA SINGH − AUNT HEDDY'S BAKERY
Spiller Phone: (212) 594−8140
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: JBVOUGHT
Contact for more spill info: SHARISSA SINGH
Contact Person Phone: (212) 594−8140

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/01/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

DURING SOIL AND GROUNDWATER SAMPLING, CONTAMINATED SOIL AND GROUNDWATER WAS DICOVERED AT THIS LOCATION:

DEC Investigator Remarks:

.

city "E" designation
Phase 2 done found petroleum contaminated soil & water.
No petroleum tank on site.... probably from a neighbor
Geo Environmental has been hired by the potential purchaser of the site. They are VERY actively trying to resolve the environmental issues so they can move on with rehabing the existing building on the site. There will be limited excavation on the site, mostly in the basment to accomodate new footings to allow additional floors to be added to the existing building.
Week of 11/20 Geo Environmental will be doing additional soil borings in the area to identify the source of on site contamination.

03/13/07−Vought−File review by Vought:

Revised Remdial Action Workplan (GZA Geoenvironmental−Sharissa Singh−212−594−8140). "The existing building will not be demolished but renovated to accomodate residential condominiums". Petroleum contamination result of "migration from upgradient property (a former gasoline service station)". Site was formerly used as bakery building. Existing foundation systems are to remain in place. "In addition a new self leveling concrete slab will be poured on top of the existing slab to further protect and seal the occupants from the subsurface contamination". "..a sub−surface ventilation system will be installed". NYCDEP Innocent Taziva required excavation of B6, however GZA feels excavation is not warranted at this location. Proposal to excavate soils around B2. NYCDEP also required sub−slab contamination system however GZA feels sub−slab is not warranted. Sub−slab depressurization system pilot test performed to determine radius of influence. One AST on−site (possibly 275−gallon) #2 fuel oil. "...soil exhibiting petroleum odors at 4−6 feet below the basement slab". Groundwater flow to the southwest. Fill material below site("sand, silt, brick and glass) may be contrubuting to SVOCs. Petroleum odors also noted in B6 at 6−8’ below grade. Indoor air samples were also collected from inside residence. ROI pilot test for SSDS show 29’ radius of influence. Air monitoring plan will be implemented during construction. Excavation of soils around B2 "will extend into the soil horizon until no visual evidence of petroleum contamination is noted (approximately 1 foot into the groundwater table)". AST will be removed from basement. Indoor air concentrations of VOCs do not exceed the background levels of VOCs in homes studied by NYSDOH and USEPA. Remedial action report will be submitted. Soil analyticals show: 38500ppb toluene(B2 4−6’bg), 57200ppb ethylbenzene(B2 4−6’bg), 141600ppb xylene(B2 4−6’bg), 519000ppb 1,2,4−trimethylbenzene. Groundwater at depth of approximately 4−6’. Groundwater

analyticals show:7ppb napthalene(MW2), 6ppb tert−butylbenzene(GW2), 17ppb sec−butylbenzene(GW2), 17ppb n−butylbenzene(GW2). As per Singh no signs of leaks at ASTs and all supply/return lines were above ground. Refual obtained immediately downgradient from gasoline station.

Vought called NYCDEP Wuthenow (718−595−4426).

DEC requires: 1)sub−slab depressurization system 2)collection of endpoint samples and analysis for 8260/8270 3)installation of four monitoring wells(three in adjacent sidewalk and on offsite adjacent to suspected source) and determination of groundwater flow direction 4)investigation of offsite gasoline source that is under construction as per Singh.

03/14/07−Vought−Performed site visit to offsite former gasoline station as per Singh, Building removed from site and soil excavated down to approximately 4' below grade. Piles began to be driven into soil. No signs of petroleum odor or staining. Possibly one remote fill port on sidewalk of building. Building address as per work permits is 66 Roebling Street. Inpsection of PBS database and spills database show no records for this address. Spills database shows former spill closed by DEC Carlson (#0503901) with some residual soil contamination left in place (210ppb benzene WC12, 1700ppb xylene WC12 both at depths of 2−4' below grade). Vought called GZA Singh and requested that she return call with source of information that site was formerly gas station. Property Shark database shows building was formerly three story brick warehouse. Stop work order placed on propety fence from DOB. No site activity or personnel at time of visit. Information for suspected gasoline station at 63 Roebling:

Owner/Developer: Roebling Park LLC
320 Roebling Street #316
Brooklyn, NY 11211
DOB Emergency Contact: 718−802−3687

Contractor: YBG Construction of New York
Issaac Schwartz
199 Lee Avenue Suite 617
718−782−1018 fax 718−782−1482
Empire Pile−718−241−3900

Vought called DOB and they do not have case in database. Vought called Issac Schwartz and left message that continued construction may cause health impacts without proper investigation and remediation (if applicable). Vought also explained that if callback was not received then both DEP and DOB would be contacted. Vought called Empire Pile and left message to return call. Vought called DEP Wuthenow and he will return call with E designation of site. Vought received callback form DEP Wuthenow who indicated that site was E designated.

3/15/07−Vought−Received call from Issaac Schwartz. As per Schwartz work has stopped due to illness of contractor. Issac stated that RAP was sent to DEC Walsh and DEC Brezner. Vought discussed installation of monitoring wells, necessity of vapor barrier and possibly further investigation/remedial action.

03/16/07−Vought−Received call from Issac Shwartz (917−282−6071 office:718−218−8330) and Kris Almskog−PW Grosser (631−589−6353). As per Kris previous finding shows groundwater flow direction in opposite direction as GZA flow direction. Vought discussed Waste Characterization Report for former gasoline station site and soil sample analyticals. Vought also provided name and number for Sharissa Singh to PW Grosser so split sampling and witnessing of well installation/determination of flow direction could be

documented by both parties. Required them to contact Department when drilling date is scheduled so site visit may be peformed.

3/20/07−Vought−Spoke to DEC Walsh and he never received report nor knew of site. Vought called Schwartz and left message to resend report as none was on file with the DEC.

03/20/07−Vought−Spoke to Schwartz and he will contact PW Grosser for copies of RAP. Received message from Schwartz that PW Grosser will be sending in RAP.

05/16/07−Vought−Complete File Review by Vought:

Phase I & Phase II Environmental Site Assessment Report (GZA)−10/16/06. Purpose of Phase II was to investigate the presence of Little E Designation by NYCDEP. Site is occupied by Aunt Heddy's Bakery. Two (275−gallon) ASTs in basement. Four soil borings performed on 9/20/06. Groundwater at depth of 9−10'bgs. "Additionally visual and olfactory evidence of petroleum−like contamination were noted in B−1, B−2 and B−4." "Based upon the above findings GZA concludes that a petroleum release at an adjacent or upgradient property has resulted in contamination of the groundwater beneath the site". "GZA recommends that a sub−slab depressurization system be installed at the Site...". Soil analyticals show: Soil analyticals show: 38500ppb toluene(B2 4−6'bg), 57200ppb ethylbenzene(B2 4−6'bg), 141600ppb xylene(B2 4−6'bg), 519000ppb 1,2,4−trimethylbenzene. Groundwater at depth of approximately 4−6'. Groundwater analyticals show 22ppb acenapthene.

Sampling and Analysis Plan (GZA) submitted to NYCDEP Heath−11/7/06. Proposal for GPR survey to find buried tanks and lines, the installation of four soil borings in the basement, collection of soil samples from under basement slab to a depth of 6' below slab and collection of three groundwater samples from site, five wells in sidewalks to determine possible offsite contributions and determination of groundwater flow. Plan shows same boring well locations as those in 10/16/06 report without soil or groundwater analyticals.

Remedial Action Workplan (GZA)−1/9/07. Show additional groundwater analyticals of 6ppb tert0−butylbenzene(GW2), 17ppb sec−butylbenzene(GW2) and n−butylbenzene(GW2)

Letter from DEP Wuthenow to GZA Singh−1/25/07. "Based on our review of the submitted documentation, DEP finds the RAP inadequate. The petroleum impacted soil detected around soil boring B−6 must be removed and disposed of in accordance to all applicable federal, state and local regulations. DEC should be notified of the petroleum release".

Revised Remdial Action Workplan (GZA Geoenvironmental−Sharissa Singh−212−594−8140)−2/9/07. "The existing building will not be demolished but renovated to accomodate residential condominiums". Petroleum contamination result of "migration from upgradient property (a former gasoline service station)". Site was formerly used as bakery building. Existing foundation systems are to remain in place. "In addition a new self leveling concrete slab will be poured on top of the existing slab to further protect and seal the occupants from the subsurface contamination". "..a sub−surface ventilation system will be installed". NYCDEP Innocent Taziva required excavation of B6, however GZA feels excavation is not warranted at this location. Proposal to excavate soils around B2. NYCDEP also required sub−slab contamination system however GZA feels sub−slab is not warranted. Sub−slab depressurization system pilot test performed to determine radius of influence. One AST on−site (possibly 275−gallon) #2 fuel oil. "...soil exhibiting petroleum odors at 4−6 feet below the basement slab". Groundwater flow to the southwest. Fill material below site("sand, silt, brick and glass) may be contrubuting to SVOCs. Petroleum odors also noted in B6 at 6−8' below grade. Indoor air samples were also collected from inside residence. ROI pilot test for SSDS show 29' radius of influence. Air monitoring plan will be implemented during construction. Excavation of soils around B2 "will extend into the soil horizon until

no visual evidence of petroleum contamination is noted (approximately 1 foot into the groundwater table)". AST will be removed from basement. Indoor air concentrations of VOCs do not exceed the background levels of VOCs in homes studied by NYSDOH and USEPA. Remedial action report will be submitted. As per Singh no signs of leaks at ASTs and all supply/return lines were above ground. Refusal obtained immediately downgradient from gasoline station.

Letter from DEC Vought to Chris Horrigan−3/13/07. Letter sent requiring: 1)collection of soil samples from excavation 2)installation of SSDS system 3)delineation via installation of monitoring wells (three wells on sidewalk adjacent to site and one well by suspected offsite source of contamination".

Email from DEC Vought to GZA Singh−3/14/07. Excavation will occur to water table and since soil source will be removed vapor barrier only required (SSDS not required). Vought also required installation of monitoring wells and sent her requirements for installation of vapor barrier as per NYSDOH specs.

Email between Vought to GZA Singh−3/15/01. Singh identified suspected source site as 55−63 Roebling which was formerly used as filling station. Vought called Wuthenow and left message to return call and repeated requirement to install soil and groundwater borings in sidewalk of suspected source at 55 Roebling.

Final Remedial Action Workplan (GZA Singh)−3/20/07. "The exisitng building will not be demolished but renovated to accomodate residential condominiums". "The petroleum contamination encountered beneath the slab of the building is characterized as residual contamination and is the result of migration from an upgradient property". New concrete slab will be poured on existing slab to "further protect and seal the occupants from the subsurface". Remedial action includes excavation of soil at SB−2 and collection of endpoint soil samples, installation of a 10 mil vapor barrier, delineation via installation of off−site and on−site monitoring wells. Report maintains that contamination observed in B2 at 4’6’bg due to capillary fringe contamination from groundwater table. Three borings installed in sidewalks (two on Roebling St and one on North 9th Street). SSDS pilot test was also performed on 1/4/06 showing effective ROI of 29’. Air monitoring plan will be implemented during excavation activities. Indoor and outdoor air quality samples were collected and show VOCs below NYSDOH background concentrations. GZA also performed risk for vapor intrusion as per EPA Guidance and no significant risk. Plan also includes installation of four monitoring wells and determination of groundwater flow as required by NYSDEC. GZA will send in Remedial Action Report (RAR) with remedial actions at site submitted to DEC and DEP.

Email from GZA Singh to DEC Vought−4/2/07. Notice that drilling will proceed on 4/5 and 4/6 and request if anything was heard from owner of 55−63 Roebling.

DEC requires: 1)vapor barrier installation 2)collection of endpoint samples and analysis for 8260/8270 3)installation of four monitoring wells(three in adjacent sidewalk and on offsite adjacent to suspected source) and determination of groundwater flow direction 4)investigation of offsite gasoline source that is under construction as per Singh 5)cc to DEP.

05/17/07−Vought−Called Sharissa to approve Final Remedial Action Work Plan and to inquire about submission of results for sidewalk borings mentioned in same Plan. Vought spoke to Sharissa and soil was excavated to groundwater and endpoint samples were collected and results were received from lab and have not been examined to date. Four wells were installed and they were sampled for soil and groundwater and report will be sent to DEC. Soil and groundwater results show no contamination in front of 55−63 Roebling Street. Excavation will be backfilled, vapor barrier will be installed and new slab will be poured. DEC will send reponse letter once RAR is received and DEC will require quarterly groundwater sampling for one year. Vought instructed Singh to file FOIL request for info on 55−63 Roebling.

10/05/07−Vought−Reviewed Remedial Action Report (GZA Cela) dated September 2007 and received on 09/24/07. Building being redeveloped as residential condominiums. Soil was excavated and endpoint samples were collected. Vapor barrier was installed in two parts, "The first membrane was installed over the excavation after backfilling. The second membrane was installed over the exisiting slab and beneath the 4−inch thick self−leveling concrete slab." Four additional monitoring wells were installed. Groundwater at depth of 6'b below grade and flows to the north−northwest. Four additional soil borings were performed in surrounding sidewalks and converted into groundwater monitoring wells. Borings showed fill material to depth of 8'bg and clayey silt below. "The absence of physical evidence of petroleum contamination in boring B−1 (which was installed at 55−63 Roebling Street) indicated that the source of the contamination was not likely the upgradient, former gasoline station". ASTs were also removed from basement as site will be using natural gas. Soil was excavated to depth of 1.5' below the water table and final depth of excavation was 3.5 to 4 feet below the basement slab. Six tons of soil were removed from the site. Four soil sidewall samples were collected. Soil analyticals show minor dibenzo(a,h)anthracene exceedence (PAH) up to 88ppb attributable to fill material. Groundwater analyticals show 8ppb acenapthene. No further groundwater monitoring required due to non−detect VOCs in past two groundwater sampling events. Vought sent No Further Action letter with cc to NYCDEP. Spill closed by Vought.

Map Identification Number 154 **SHELL** **Spill Number: 9110815** **Close Date: 06/09/2005**
2 BUSHWICK AVENUE BROOKLYN, NY TT−Id: 520A−0051−721

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2099 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 2 BUSHWICK AVE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: SHELL OIL
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: J BYRNES
Caller Agency: HANDEX
Caller Phone: (516) 752−7878
DEC Investigator: KMFOLEY
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/16/1992		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

PRODUCT IN SITE WELL MW3. WAS SULLIVAN SPILL. RE ASSIGNED TO MULQUEEN 4/18/95. SHELL ADDRESSING PROBLEM AT SITE, SEE FILE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "K FOLEY"
SITE IS NOW AN AMOCO, OWNED NY WOLF PETROLEUM, PBS #2−1904112.

DTW:22−24': GWF:NE. PRODUCT IN MW−2 AND MW−3.

8/5/99 mtg: EnviroTrac will review and submit all historical data related to this site going back to the early 1990's.
EnviroTrac will also review the contamination in well #3 and propose a clean up system (possibly biological)

11/03 Reassigned from Sangesland to K Foley.

11/20/03 E−mail from Steve Sangesland to Rob Rule: "It requires opening up a new spill for Amoco before closing out the old Shell spill case for the site. I believe Shell has made it's case that the present problem is due to Amoco's action, but Kerry will need to take action on it."

2/4/04 Spoke to Rob Rule. Requested he send actual historic concentration data. Data from post−1999 is indicative of a new release, however Shell needs to prove their case that concentrations were decreasing toward and close to groundwater standards. Rob indicated they have previously tried to come to an agreement with Wolf Petroleum but had no response.

2/6/04 Received email from P. Sherwood, Phoenix Environmental. He attached copy of 6/6/03 letter to S. Sangesland requesting closure. Shell sold property to Wolf in April 1992. A product recovery pump and SVE system were operated by Shell from 1993 to 1994 to address residual hydrocarbons. Groundwater sampling continued until January 2000. Samples were collected and analyzed for VOCs and SVOCs in February 2003.

From July 1990 to Februrary 1998, MTBE concentrations in on−site wells MW−2 and MW−4 ranged from non−detect to 986ppb.

From Februrary 1999 to February 2003, MTBE concentrations in wells MW−2 and MW−4 ranged from 619ppb to 34,400ppb. Highest concentrations of MTBE in wells MW−2 and MW−4 were 34,400ppb and 23,300ppb, respectively.

From 1990 to 1991, MTBE concentrations in MW−3 ranged from 24,400ppb to 26,000ppb. Product was detected intermittently in MW−3 from 1991 to 2003. On March 30, 1998 product was not present and a groundwater sample was collected with MTBE conc at 3,990ppb. In the most recent groundwater sampling results of MW−3, collected in 2000, MTBE ranged from 181,000ppb to 842,000ppb.

In 1990 and 1991, groundwater samples were collected from MW−1 and analyzed for MTBE. Concentrations ranged from 1,600ppb to 24,000ppb. MW−1 was destroyed in 1993. MTBE concentrations in MW−1 appear to be a minor spike, localized to the tank field area. This is supported by the fact MTBE concentrations in downgradient well MW−2 ranged from 14ppb to 986ppb until 1999, when concentrations increased significantly.

6/8/04 Meeting with Shell. They agreed to keep monitoring gw until legal issues have been resolved with Wolf for spill #0330060.
DEC expects resolution in 6−12 months.

11/23/04 Met with P. Sherwood, B. Hoashi(Phoenix) and R. Rule(Shell). Samples collected 8/30/04 showed 0.38' free product in MW−3. BTEX ranged from 3ppb(MW−2) to 20ppb(MW−4). MTBE from 18ppb(MW−2) to 251ppb(MW−4). Requesting closure due spill under new owner.

See spill #0330060.

NYSDEC FALL 1998 MTBE SURVEY INFORMATION FOR 9110815

Maximum MTBE concentration: 2200.0 PPB
Current MTBE concentration: 47.0 PPB
BTEX offsite: No

Source of MTBE
- Steel Underground Storage Tank −
- Fiberglass Underground Tank −
- Aboveground Storage Tank −
- Piping − X
- Source not identified −
- Other source −

Number of private drinking water wells impacted: 0
Number of public water supply wells impacted: 0
Number of private drinking water wells impacted: 0
Number of replacement wells drilled: 0
Number of water main extensions: 0
Number of water main hookups: 0
Number of residences provided w/ bottled water: 0
Number of people affected: 0

Indoor Air Impacts : No
Aquifer Impacts : No

Ongoing remediation: Yes

Monitoring Frequency
- Monthly −
- Quarterly −
- Semi−annual −
- Annual −
- Other −

Remedial Action used
- No Action −

Groundwater
- Pump and Treat −
- Air sparging −
- Bioreactor −
- Natural attenuation −
- Oxygen injection −
- Biosparging −
- Dual phase extraction −
- Other − X

Soil
- Soil Vapor extraction −
- Excavation and disposal − X
- Bioremediation −
- Low temp thermal desorption −
- Oxygen injection −
- Other −

Under investigation: Yes
Dept. of Health involvement: No

Dept. of Health Remarks: No remarks given for this spill

General Remarks: GW other: Porduct recovery system.

Map Identification Number 155 **213 NORTH 9TH STREET** **Spill Number: 0708819** **Close Date: 10/22/2008**
213−217 NORTH 9TH STREET BROOKLYN, NY TT−Id: 520A−0210−496

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2102 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: FRED BARILLA Spiller Phone: (631) 589−6353
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: AXDORONO Contact for more spill info: FRED BARILLA Contact Person Phone: (631) 589−6353

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/13/2007		OTHER	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

PHASE TWO INVESTIGATION FOUND CONTAMINATED SOIL:

DEC Investigator Remarks:

Sangesland left a voice message with Fred Barilla requesting additional information on the Phase 2 investigation and any follow up work they may have already planned.
12/07/07 A csl was sent to

Mr. Simon Dushinsky
Hope Street Holdings
39 Hayward Street
Brooklyn, NY 11211
01/30/08 I inspected the site this morning, met PW Grosser rep Fred Barilla.He indicated that one 1,000 gallon tank, partially buried was removed from the SE corner of the site.PW did not witnessed the tank removal but there was few inches of sludge at the bottom of the tank.Soil excavation is being done today at the former tank location, contaminated soil discovered at the tank bottom.I did smell petroleum at the excavation area and recommended covering of the stockpiled soil to prevent spreading odor.I also told them to collect soil sample from the bottom of the tank excavation to characterize the soil.There was no liquid product observed at the excavation hole during my visit, but later on,I got a call from Fred Barrilla saying that they discovered free product at the hole after my departure.I strongly recommended to take pictures, samples of the product from the hole.Fred said air monitoring is being done continuously and actions will be taken as per health and safety plan previously submitted to DEC.There are two other spots where they found anomaly on GPR survey on the site.(SR)

******The site is designated with a Hazardous Materials"E"(E−138) as part of the Greenpoint−Williamsburg Rezoning Action(CEQR#04DCP003K)******

02/20/08 Preliminary Phase II was done in September 2006.Five soil borings were performed. Elevated VOCs and SVOCs were detected in soil and ground water.PW Grosser performed supplemental investigation in October 2007.Several elevated VOCs were identified at B 14, several SVOCs were also identified above RSCOs limit across the site.Three ground water samples were collected from B12, B15 and B16.VOCs in ground water were within the NYSDEC GQS.In January 2008 investigation, Area of B−14(Center of the site)has elevated VOCs along the south wall and excavation bottom at north side.Recent VOCs in end point soils are: Benzene 500 ppb, Ethylbenzene 8900 ppb, m+p−Xylene 30,000 ppb,n−Propylbenzene 16000 ppb, Isopropylbenzene 7400 ppb; VOCs concentration in ground water are:Benzene 110 ppb,Isopropylbenzene 300 ppb, Naphthalene 1800 ppb, Ethylbenzene 69 ppb,1,2,4 Trimethylbenzene 590 ppb,p−Isopropyltoluene 1200 ppb,n−Butylbenzene 1200 ppb.End point samples along N 9th street will be collected, was not taken due to additional excavation.Soil and GW testing at western side of the excavation also required.
RAP and Phase II report are in the file.
Case referred to Remedaition section for further management.(SR)

02/25/2008: This spill case was transferred to A. Doronova. AD

Spoke with F. Barilla of PWG and scheduled site visit for Friday, February 29, 2008.

02/29/2008: Visited the site with J. Kolleeny. Fred Barilla of PWGC and David Yedelson (attorney) met us at the site. They showed property grounds with three areas of concern. There are some high hits of petroleum contamination in groundwater sample from test pit TP−3 (few thousand ppb), no soil analytical data was available for this boring. Also some elevated levels of VOCs and SVOCs were detected in the Excavation pit B14 (Benzene − 110ppb) It was agreed that the consultant will provide DEC with a work plan for some additional groundwater delineation through installation of a few GW wells< and to include in this plan some remedial actions such as: RegenOx application into the excavation pits and excavation of the soil in the area of test pit TP−3. AD

03/07/2008: Received a ecopy of work plan from F. Barilla of PWG. Will review. AD

03/10/2008: Reviewed the work plan. Monitoring wells locations have to be changed. Spoke with F. Barilla of PWG. Asked him to relocate the wells and indicate on the site diagram extend of excavation.

Amar Nagi of DEC requested preparation of the STIP for this site to ensure implementation of the required by DEC investigative and remedial actions. AD

03/11/2008: Prepared the STIP with a cover letter and CAP. Spoke with F. Barilla of PWG. Informed him about DEC decision to issue the STIP and additional requirements to the investigation plan. Faxed him the site diagram with locations for four more wells. Sent the STIP to Mr. Simon Dushinsky of the Rabsky Group, LLC. with cc: J. Kolleeny − DEC; F. Barilla − PWG and file. AD

03/13/2008: Spoke with D. Yedelson. He was disagree with Paragraph 3 in STIP. I referred him to J. Urda of DEC. Spoke with J. Kolleeny regarding this site. AD

03/14/2008: D. Yedelson sent an email to Ms. Suzanne Y. Mattei of DEC with request to schedule a meeting. AD

03/25/2008: Spoke with D. Yedelson. He would like to schedule a meeting with DEC regarding Paragraph 3 in Stipulation Agreement. AD

03/28/2008: D. Yedelson copied me an email he sent to Ms. Mattei of DEC with request of time extension to execute the stipulation until the issue with Paragraph 3 in STIP will be resolved. Forwarded his email to John Urda of DEC, because of legal issues involved. Spoke with J. Urda. AD

04/03/2008: Received a copy of email from D. Yedelson to Ms. Mattei of DEC in which he states that his client will submit the requested remedial and investigatory work plan today and Mr. Yedelson is scheduling the field work. STIP was not signed yet. Forwarded this email to J. Urda of DEC. AD

04/07/2008: Received a Supplemental Investigation Workplan from PWG. Spoke with J. Urda. AD

04/09/2008: Spoke with J. Urda and L. Oliva of DEC regarding submitted investigation work plan. They confirmed that I can review the work plan and issue an approval letter if applicable, without signed STIP. AD

04/14/2008: Sent an approval letter to Mr. Dushinsky of Rabsky Group, LLC.(owner). (cc: J. Kolleeny−DEC; F. Barilla−PWG; eDocs). Spoke with Fred Barilla of PWG, to make sure they will collected soil samples from soil borings. AD

Received an email from F. Barilla of PWG.

05/02/2008: Spoke with D. Yedelson regarding backfilling of the excavation pit. They plan to do it on Monday, May 5, 2008. Will visit the site prior the backfilling. AD

05/05/2008: Visited the site with J. Kolleeny of DEC. Met with F. Barilla of PWG and D. Yedelson. Newly installed monitoring wells were surveyed and sampled. GW labresults are not ready yet. End−point soil samples results from excavation around TP−3 did not indicated VOC concentrations above required standards. Approved to backfill excavation pit in the vicinity of TP−3. Asked to collect six additional individual end−point soil samples from the excavation pit along 9th street and along the night club building. Requested to submit a summary report with conclusions and recommendations. AD

05/14/2008: Received hard copies of laboratory results. Will review. AD

08/14/2008: Called and left a message to F. Barrila regarding the report submission. AD

09/16/2008: Received a Spill Closure report. Will review. AD

10/01/2008: Spoke with Fred Castellano of PWG, asked him to submit PDF copy of the report. AD

10/06/2008: Received requested CD with the report. Was not able to DL it to eDocs due to oversized format. AD

10/10/2008: Reviewed the report. Some data is missing. Called and left a message to F. Castellano regarding re−submisssion of CD. AD

10/14/2008: Called and spoke with Cris of PWGC regarding new PDF copy of the report and some missing data (analyticals for end−point samples SW−1B through SW−4B, and map with location of soil samples CS1 through CS−7). He said that requested data will be submitted in a few days. AD

10/17/2008: Received a phone call from Z. Youngman of PWGC. He sent CD with PDF copy of the report today with some changes. We will recieve it probably Monday, Oct. 20. AD

10/21/2008: Received a reduced size PDF copy of the spill closure report. DL to eDocs. A requested summary table with results for samples SW−1 trough SW−4 was presented. Regarding samples CS1 trough CS−7 Mr. Youngman explained that they were collected for waste soil characterization. AD

10/22/2008: Discussed the site with J. Kolleeny of DEC. Issued a NFA letter addressed to Simon Dushinsky of Hope Street Holdings. (cc: J. Kolleeny−DEC, D. Yudelson − attorney, Zeb Youngman−PWGC, file). This decision was made based on submitted analytical data and remedial actions performed at the site. In addition, this site is listed as "E" restricted by NYCDEP, so future mitigation work such as:
− removal of any additional contaminated soil found during pre−construction excavation at the site;
− installation of vapor barrier beneath new slab;
− installation of sub−slab depressurisation system;
will be required at the site by the NYCDEP in conjunction with the construction of the proposed building. AD

Map Identification Number 156 **SERVICE VS5743** **Spill Number: 9814654** **Close Date: 03/11/1999**
BEADEL ST/DEBEVOISE ST BROOKLYN, NY TT−Id: 520A−0051−767

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2107 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: BEADEL ST / DEBEVOISE AV
Revised zip code: 11222

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	ZAMBRIO	Notifier Phone:	
Caller Name:	MIKE CESARE	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/09/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 OUNCE IN VAULTED SERVICE BOX − CASE #123525 −

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
DEC Inspector notes:

3/10/99 1427: emailed ERT's for e2mis reports.

Con ed e2mis #123525 notes:

A. LOSCHIAVO #38089 OS NETWORK REPORTS IN VS5743 S/S BEADEL ST 220' E/O DEBEVOISE ST HE FOUND APPROX 1 OZ UNKNOWN FLUID ON 30 GALLONS OF WATER. FLUID WAS UNDIAPERABLE. HE PRESSURE TESTED TRANSF AND FOUND NO LEAKS. NO OTHER OIL FILLED EQUIPMENT IN STRUCTURE. HOLE CONTAINED, NO SEWER CONNECTION OR SUMP PUMP IN HOLE. THERE IS A SUMP IN HOLE. NO SEWERS OR WATERWAYS AFFECTED. HE FOUND UNKNOWN FLUID WHILE INSPEC TRANSF ON FDR. 5B23 OUTAGE. SAMPLE TAKEN 4−6 HRS PRIORITY FOR RESULTS AND E.S.TAG #08236 WAS PLACED. WAITING RESULTS FOR CLEANUP. NO PARKING TUES AND FRIDAY 11 AM TO 2 PM CIG M.CESARE NOTIFIED 1357 HRS

3−9−99 20:05 HRS LAB SEQ# 99−02483 <1.0 PPM.

@ 00:12 HRS 10/03/99 F. DELLATORRE REPORTS CLEANUP COMPLETED USING SLIX & STOP TAG # 82336 REMOVED.

Map Identification Number 157 **105 BEDFORD AV** **Spill Number: 9711671** **Close Date: 05/01/1998**
105 BEDFORD AVENUE BROOKLYN, NY TT−Id: 520A−0048−951

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2130 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 105 BEDFORD AV
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: UNK
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: STEVE ADAMS
Notifier Phone: (718) 349−8253
Caller Name: STEVE ADAMS
Caller Agency:
Caller Phone: (718) 349−8253
DEC Investigator: MCTIBBE
Contact for more spill info: STEVE ADAMS
Contact Person Phone: (718) 349−8253

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/25/1997		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PAINT	OTHER	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

OLD PAINT FACTORY AT LOCATION IS BEING DEMOLISHED. SOIL SAMPLES WERE TAKEN IN NOVEMBER THAT SHOW CONTAMINATION FROM THE PAINT INGREDIANTS. DEMOLITION COMPANY IS WASHING DOWN THE SIDEWALKS AND SPREADING THE CONTAMINATION INTO THE SEWER SYSTEM

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
REFERED TOM HAZ WASTE REMEDIATION.

Map Identification Number 158 **NEW APT BLDG/FORMER PAINT FACTORY** **Spill Number: 1001766** **Close Date: 05/17/2010**
95 BEDFORD AVENUE , NY TT−Id: 520A−0252−629
BEDFORD AND NORTH 12TH STREET

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2130 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	jbvought	Contact for more spill info:	CELEST OKALI	Contact Person Phone:	(347) 672−6059

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/14/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
METALS	OTHER	0	UNKNOWN	0	UNKNOWN	SOIL, SEWER

Caller Remarks:

UNKNOWN CHEMICAL LIQUID LEAKING FROM TWO RED TANKS ON A CONSTRUCTION SITE, POSSIBLY FLOWING INTO STORM DRAINS.

DEC Investigator Remarks:

5/14/10−Vought−Secondary off hours responder and received intial call from hotline as DEC Zhune not available. Vought called and spoke to NYCDEP Celeste Oloke (Cell:347−672−6059) and spill coming from leaking dewatering system that is used to dewater a site where an apartment building is being constucted at the location of a former paint factory. Celeste indicated he received calls from concerned neighbors who knew the industrial nature of the site and were concerned about the dischage effluent impacting the sewer system. Oloke noted that no sheen or petroleum odors were associated with the leaking effluent and that DEP Hazmat was formerly onsite. Oloke also indicated that site did have a NYCDEP discharge permit. Oloke indicated that site owner was lised at 95 Bedford LLC. Contact information on site fence is:

NGI Construction
718−782−4624

Vought googled site address and noted "blogs" of concerned neighbors regarding possible contamination issues at the site and also noted that the Site is a listed EPA RCRA Site. Contact as per EPA database is Sheya Ruttner (Ph:718−782−4624).

5/17/10−Vought−As per DEC Zhune, she spoke with NYCDEP Oloke who returned to site on night of 5/14 and discharge pipe was repaired. Spill closed by Vought as non−petroleum spill and repair of leaking dewatering discharge line. Vought noted that site was E designated and called NYCDEP Dan Cole (Ph:212−341−0964) who noted that he was case manager on site and that site was heavily contaminated with metals and SVOCs. Cole noted that majority of contaminated soil removed from site and that letter was sent to NYCDEP Nagi dated 4/8/08 notfiying him of excessive metal concentrations and requiring further guidance. As per Cole he received call from former DEC Chawla noting that if Cole wished to list site as Hazardous Waste site then he should do so. Cole noted that prior soil concentrations of metals onsite were up to 5400ppm arsenic and very high lead levels. Cole also noted that case was being managed by Environmental Business Consultants (Charlie Sosik 631−504−6000). DEC Austin called and left message for DEC BSHM Paul John to return call.

DEC possibly requires:
1)referral to DEC Remediation or RCRA Unit
2)followup and possible closure of spill 0808463
3)possible report submission by EBC Sosik
4)Discussion with DEC nagi.

Map Identification Number 159 **EIGHT GAL XFMR LEAK IN MANHOLE #1706** **Spill Number: 0707397** **Close Date: 12/28/2007**
155 NORTH 11 ST (AT BEDFORD AVE). BROOKLYN, NY TT−Id: 520A−0210−594

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2130 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 155 N 11TH ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN NAME − CON EDISON
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: gdbreen
Contact for more spill info: ERT DESK‘ MIKE DAUGHTERY
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/04/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	8.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

8 gal. of unknown oil found in a transformer manhole. Clean up is pending test results. No to the five questions. ConEd#208389

DEC Investigator Remarks:

12/28/07 − See eDocs for Con Ed report detailing cleanup and closure.

208389. see eDocs

Map Identification Number 160 **MH4940** **Spill Number: 0006690** **Close Date: 11/26/2001**
LORIMER ST/DEVOE ST BROOKLYN, NY TT−Id: 520A−0038−743

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2150 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR ZAMBRIO
Notifier Phone:
Caller Name: MARK SCHLAGEL
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/06/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

300 gals water in mh. no sewers or waterways

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis #133224 Notes:

9−6−00 1pt unknown oil on 300gal water in amnhole. Only oil filled equipment in hole is cable. Liquid sample taken returned <1ppm PCB.

12−20−00 Flush employee reports cleanup complete, no sump in structure. Cleanup completed by double washing with slix. Liquids removed by tanker, solids by vactor. No leaking equipment.

Map Identification Number 161 **MANHOLE #4382** **Spill Number: 9911493** **Close Date: 02/15/2002**
640 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0042−467

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2164 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: RICHARD ROACH
Notifier Phone: (212) 580−6764
Caller Name: RICHARD ROACH
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info: RICHARD ROACH
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/03/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 gal unk oil on 100 gals of water − sample taken clean up pending lab results

con ed #129466

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"

Map Identification Number 162 **HYDRO TECH** **Spill Number: 0508858** **Close Date: 01/25/2007**
170 NORTH 11TH STREET BROOKLYN, NY TT−Id: 520A−0040−743

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2208 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: MARK ROBBINS − HYDRO TECH
Spiller Phone: (631) 462−5866
Notifier Type: Responsible Party
Notifier Name: MARK ROBINS
Notifier Phone: (631) 462−5866
Caller Name: MARK ROBINS
Caller Agency: HYDRO TECH
Caller Phone: (631) 462−5866
DEC Investigator: rmpiper
Contact for more spill info: MARK ROBBINS
Contact Person Phone: (631) 462−5866

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/25/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SOIL SAMPLES CONTAINED PAH

DEC Investigator Remarks:

Nov 7, 2005
A "Contaminated Soil Letter" was sent to:

Selim Akyuz P.E.
Kiska Construction Corp
181 North 11th− St, Suite 302
Brooklyn, NY 11211

12/12/05−Vought−Reviewed Remedial Action Plan (HydroTech 631−462−5866) dated 11/8/05 and received on 11/18/05. Site labelled by DEP as E designated site (#05DEPTECH063K). "The RAP documents the proposed screening segregation and disposal of contaminated soil from the site during to future site development. NO VOCs on site and SVOCs "appear related to urban fill material". Soil will be segregated on PID basis. Endpoint samples will be collected, "as per DER−10 samples will be obtained for every 30 linear feet of sidewall and every 950 square feet of bottom". DEC requires: 1)submission of detailed soil description of endpoint

samples 2)submission of endpoint analyticals to the Department 3)installation of vapor barrier. Vought sent letter approving of RAP pending inclusion of above requirements.

3/15/06−Vought−Spoke with Rachel (Hydrotech) and excavation was performed and elevated levels PAH's. Report will be submitted to DEC.

05/17/06−Vought−Spill transferred from DEC Vought to DEC Piper as per DEC Austin.

5/19/06− DEC Piper reviewed vapro barrier specification and they are acceptable providing they follow the manufacturers specs.

DEC Piper reviewed report. As per report, approx 43 tons of soil were removed,. Enpoints revealed no VOC's above RSCO's and low levels of SVOC related to urban fill. A vapor barrier was placed and the area was backfilled. Piper looked at historical sanborns, as per maps , there were AST in vicinity of property though no UST and underground piping. This area has isolated xontamination through historic use. This spill is closed,.

Map Identification Number 163 **W OF ROBLING AV** **Spill Number: 9814263** **Close Date: 04/02/1999**
N 8TH ST BROOKLYN, NY TT−Id: 520A−0050−180

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2226 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR WAYNEWRIGHT
Notifier Phone: (212) 580−6763
Caller Name: TONY CONSTATINE
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/26/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 PINT OF UNK OIL (TM69) WAS INADVERTENTLY SUCKED UP INTO A FLUSH TRUCK − 123305 IS CON ED REEF # − TRUCK IS BEING QUARINTINED IN YARD

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

Approx 1 pt unknown oil mixed with 4 cubic feet of dirt from floor of TM. No oil remaining in TM. I&A networks pressure tested and checked oil level of TM−− no leaks and oil level okay. Truck was quarantined in the 3rd ave yard. One sample oil and dirt sent to chem lab.

Results water <1.00ppm.

W.Tudy Env. ops reports <1.0 ppm cleanup complete and tag removed. Incident is closed.

Map Identification Number 164 **MAN HOLE #4934** **Spill Number: 0004891** **Close Date: 10/23/2001**
UNION AVE / KEAP ST BROOKLYN, NY TT−Id: 520A−0038−057

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2266 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	TONY LOPEZ	Notifier Phone:	(212) 580−6763
Caller Name:	TONY LOPEZ	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6764
DEC Investigator:	JHOCONNE	Contact for more spill info:	TONY LOPEZ	Contact Person Phone:	(212) 580−6764

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/24/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

con ed # 132535 spill confined in man hole clean up pending lab results spill on surface of 60 gallons of water

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis Notes:

7/24/00 1/2pint unknown oil on 60gal water in manhole. One liquid sample taken. Cleanup treated as 50−499ppm. Sample returned <1ppm. Water was pumped into tanker. 1 barrel solid waste removed. Manhole double washed with slix. Wash water pumped into tanker. No earthen sump.

Map Identification Number 165 **MH 225** **Spill Number: 0000119** **Close Date: 01/17/2002**
AINSLIE ST/LEONARD ST BROOKLYN, NY TT−Id: 520A−0038−637

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2269 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR WAYNWRIGHT
Notifier Phone: (212) 580−6763
Caller Name: MARK SCHLAGEL
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/04/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

no sewers no waterways 130734

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis #130734 Notes:

4−4−00 1000hrs

4qts unknown oil on top of mud in manhole 225. Sample will be taken.

5−5−00 LSN 00−03255 <1ppm PCB

7−12−00 1030hrs

Cleanup completed by double washing with slix. Liquids removed by tanker, solids by vactor. No leaking equipment. No sump.

Map Identification Number 166 **VACANT LOT** **Spill Number: 0601688** **Close Date: 03/28/2008**
165 NORTH 10TH ST BROOKLYN, NY TT−Id: 520A−0048−058

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2280 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: SELIN AKYUZ − KISKA CONSTRUCTION
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: VXBREVDO
Contact for more spill info: RACHEAL ATAMAN
Contact Person Phone: (631) 462−5866

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/15/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SOIL SAMPLE FAILURE. CLEAN UP IS NOT IN PROCESS.

DEC Investigator Remarks:

Contaminated Soil Letter sent to:

Kiska Group
Mr. Selin Zkyuz
170 North 11th St
Brooklyn, NY 112

05/24/06 Sharif Rahman− Rec'd Phase II report prepared by Hydro Tech Environmental,Corp. The site is a NYCDEP 'E' designated site. Borings were installed to investigate the subsurface soil and ground water quality.High concentration of VOC's(SP: Benzene−84,200 ug/kg,Toluene−79,900 ug/kg, Ethylbenzene−51,700 ug/kg, Xylene, Naphthalene−5,180,000 ug/kg) and SVOC's are present in soil and ground water(Benzene− 402ug/L, Toluene− 112 ug/L, Ethylbenze− 26.6 ug/L, Naphthalene−727 ug/L). Visual and olfactory evidence of petroleum was also identified in soil probes.Presence of signifcant level voc's/svoc's warrants long term soil and ground water remediation.Consultant recommended for excavation of the contaminated soil and injection of ORC to treat impacted ground water.
Case has been transferred to Remediation Section B.

6/21/06 − Tang, reviewed site assessment report dated 5/3/06 by HydroTech. GW impact is minimal. Bulk of the contamination is in soil. Since this is an "E" designated site by NYCDEP and DEP has already approved a work plan to excavate the contaminated soil, DEC will not require GW remedy. Spoke to Kathy DeVoe of HydroTech, informed her to submit the end point sampling results after all the contaminated soil are excavated. Will track this as a P3 site. − KST

9/11/06 − HydroTech, Kathy Devoe wrote: "We will be starting the field work at the above referenced Site on Monday,September 18, 2006. We are expecting the field work to last approximately 3 days. If there is any change in the scheduling I will let you know." − KST

Map Identification Number 167 **IFO HOUSE** **Spill Number: 9905189** **Close Date: 09/28/1999**
143 AINSLIE ST BROOKLYN, NY TT−Id: 520A−0047−066

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2293 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: RESIDENCE
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name: ANONYMOUS
Caller Agency: CITIZEN
Caller Phone: (000) 000−0000
DEC Investigator: HUANG
Contact for more spill info:
Contact Person Phone:

Category: Investigation indicates there was no spill.
Class: Any Type of RP, Including No RP − DEC Field Response − Corrective Action Not Required or Not Possible

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/30/1999		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
RAW SEWAGE	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller reports sewage coming from property listed above, has been going on for over 1 month.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 168 **STAR SOAP AND CANDLE CO.** **Spill Number: 0706592** **Close Date: 09/13/2007**
304 NORTH 7TH STREET BROOKLYN, NY TT−Id: 520A−0037−679

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2303 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: WINSTON
Spiller Phone: (516) 779−7922
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: hrpatel
Contact for more spill info: WINSTON
Contact Person Phone: (516) 779−7922

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/13/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

WHILE PUMPING OUT WATER FOUND OIL MIXED IN:

DEC Investigator Remarks:

09/13/07−Hiralkumar Patel. spoke with Joe. they were hired by Mr. Winston to pump out water from basement of commercial building.
during pumping, they found about 10 gal of oil on top of water. as per Joe, it could be #2 oil but due to mix with debris, it
look like #6 oil.

all cleaned up.

PBS #: 2−236594

Perry Finkelman **property owner**
American Development Corp.
Ph. (718) 377−0106 (O)
(516) 770−9004 (C)

Winston Wilson **property manager**
Ph. (516) 779−7922 (C)

found another spill cases reported for same site: 0706476 & 0706478.

refer to spill #: 0706476.

Map Identification Number 169 **STAR SOAP AND CANDLE CO.** **Spill Number: 0706478** **Close Date: 09/13/2007**
304 NORTH 7TH ST BROOKLYN, NY TT−Id: 520A−0037−673

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2303 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: STAR SOAP AND CANDLE CO.
Spiller Phone: ( ) −
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rmpiper
Contact for more spill info: JOHN WILSON
Contact Person Phone: (718) 595−4784

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/10/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	500.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

NEW OWNERS ARE THE AMERICAN DEVELOPEMENT GROUP LLC. #516−565−5600; UNSURE WHEN THE SPILL OCCURED BUT IT WAS NOTICED TODAY; NO CLEAN UP AT THIS TIME; ALSO SOME DRUMS FOUND ON PROPERTY;

DEC Investigator Remarks:

refer to spill #: 0706476.

Map Identification Number 170 **310 N 7TH ST** **Spill Number: 0510912** **Close Date: 12/19/2005**
310 N 7TH ST BROOKLYN, NY TT−Id: 520A−0046−202

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2303 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: STAN GUREWICH − GUREWICH, STAN
Spiller Phone: (212) 722−4583
Notifier Type: Fire Department
Notifier Name: BENETATOS, ANYTONIO
Notifier Phone: (718) 476−6288
Caller Name: BENETATOS, ANYTONIO
Caller Agency: FDNY
Caller Phone: (718) 476−6288
DEC Investigator: JXZHAO
Contact for more spill info: CAPT CORRADO
Contact Person Phone: (718) 476−6288

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/17/2005		UNKNOWN	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	50.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

spill in basement from oil tank .

DEC Investigator Remarks:

Spill was contained − Zhao said case closed

Map Identification Number 171 **VACANT/ COMMERCIAL** **Spill Number: 0712729** **Close Date: 04/11/2008**
506 DRIGGS AVE BROOKLYN, NY TT−Id: 520A−0215−867

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2367 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: VACANT/ COMMERCIAL
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rvketani
Contact for more spill info: MICHAEL BORELLO
Contact Person Phone: (917) 217−7334

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/04/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PESTICIDES	OTHER	0	GALLONS	0	GALLONS	SOIL

UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

semi−volatile MATERIAL AND PESTICIDES; SOIL SAMPLE RESULTS; CLEAN UP PENDING FURTHER INVESTIGATION;

DEC Investigator Remarks:

Consultant was hired to do a Phase 2 on this property for City "Little e" designation. They found small amounts of SVOC and Pesticides in shallow soil borings (2ft depth)

3/5/08 − Raphael Ketani. I looked up the site in the PBS, but it wasn't listed. The block and lot are 2312 and 22. According to ACRIS, the owners are Tadeusz and Krystina Zablocki, 75 Berry Street, Brooklyn, 11211−1917, and Michael Lichtman, 132 Greene Street, New York, 10013.
The environmental company is Environmental Building Solutions. The contact is Michael Borello (917) 217−7334.

I sent a CSL to the owners.

3/11/08 − Raphael Ketani. Today I received a letter from Joseph Horowitz, PE, 76−06 137 St., Flushing, 11367 ((718) 544−5105). The letter stated that a Phase II was currently taking place. Previously, a Phase I was performed for the site and submitted and approved by NYC DEP. NYC DEP is involved because the site has an "E" designation. Mr. and Mrs. Zablocki plan to construct a four story building. The building will require a foundation which is 10 feet deep. Excavation will be at least to a depth of 10 feet. Clearance sampling will take place and the remediation work will be incorporated into the construction work. Mr. Horowitz stated that DEC will get a copy of the Phase II ESA and the Phase III Work Plan. Mr. Horowitz stated that he, Mr. and Mrs. Zablocki, Michael Borello, Principal, Environmental Building Solutions, LLC, 295 Madison Avenue, Suite 1826, NY, 10017, and Innocent Taziva, NYC DEP ((718) 595−3585) should all be copied on any correspondence from DEC.

The NYC DEP reference number is 08DEPTECH159K/04DCP003K.

3/12/08 − Raphael Ketani. I left a message for Mr. Horowitz that the DEC would like the contaminated soil to be removed immediately and that we would like the end point soil sample analytical results.

Mr. Horowitz called me back. He said that the site is half an open yard and half a garage. He said he is waiting for the necessary permits to demolish the garage. Otherwise, they can't move forward. He said that the owners are as anxious as DEC to move foreward and get rid of the contaminated soil. Groundwater samples were taken and he is waiting to receive the analytical results.

3/18/08 − Raphael Ketani. Today I received the Phase I for the site from Mr. Horowitz. I reviewed the document. The entire document was lightly reproduced as it may have been printed from a copy of a copy of the Phase I document. The pages in appendices IV and V were too light to read. However, these were mostly maps and neighboring property descriptions, respectively. I had no other comments regarding the Phase I.

3/24/08 − Raphael Ketani. I received a call today from John Zablocki, one of the owners (646) 361−6839. He said that the engineer he had hired was billing him for "all kinds of things." He also wanted to know if he needed to contact DEC before doing the site

excavation for the contaminated soil. I told him he didn't have to wait for DEC's approval, but he would need to provide DEC with documentation that he had characterized the soil, and had sent it to the appropriate disposal site. I added that DEC would also need manifests for the loads of soil. I told him that soil borings would have to be taken to delineate the extent of the contamination, unless he already knows this. I told him that DEC had already received some information regarding the level of the contamination. He asked whether he can take the soil samples himself in order to save money. I told him he could and I explained the entire process of soil contamination delineation, sending the samples to a laboratory, submitting a soil sampling plan to be approved by DEC before the work starts, the analytical methods to be used and other details. In the end of our 45 minute conversation, I informed him that hiring an environmental professional, particularly a person with a PE might be the best way to go, even if it is expensive. I told him that this person will know what to do and the ins and outs of the process. I added that the bank may cut his funding if a PE doesn't oversee the job. I told him to be careful as regards what he does with his project. He said he plans on building a 6 family apartment building. I told him that he should be very careful that the work is done properly. He thanked me for all of the information and the conversation ended.

3/26/08 − Raphael Ketani. I received the (Draft) Subsurface Soil and Groundwater Investigation report dated 3/13/08 from Environmental Building Solutions, LLC. I reviewed the report.

I finished my review of the report. The soil analyticals showed that there were hits for SVOCS in the soil. These were the combustion series of analytes in the 0' to 2' sample and the 14' to 16' sample for B3. There were low level exceedences of TAGM for the 0' to 2' sample. Only a small number of hits were present in the other samples. The samples were almost entirely non−detect for SVOCs. Almost all of the samples were also non−detect for VOCs. Most of the hits were in B−2 in the 0' to 2' sample. The groundwater sample had only some low level SVOC exceedences of TAGM.

The boring location map shows that the drilling sites were widely spaced. I wrote a letter to Mr. Horowitz stating that there should be more borings.

3/27/08 − Raphael Ketani. I spoke to Mr. Horowitz (718) 544−5105 about the site. He said that the Zablockis received the DEC letter requesting 3 additional borings and soil samples. He said that he doesn't want to try to do the borings and get the analytical results for the soil samples as this will take a lot of time. He said that the City program they are involved with gives them a tax break for constructing on their property, but only if they have the foundation under construction before the end of June 2008. He said that what DEC is asking for will take too much time. He said that all of the soil will be dug up anyway and handled as hazardous material due to the pesticide hits. I told him that is fine, but DEC still doesn't know what the subsurface conditions are.

I told him that the site is 100 feet long and that 3 borings are just not enough to characterize the subsurface. I told him that he doesn't have to go down any further than 15 feet and that the analytical results just need to show the 12 most common VOCs and the 12 most common SVOCs. I told him that there are dozens of environmental and remediation companies and that someone has to have equipment available to do a few borings on short notice. He said that he will call me back later.

Mr. Horowitz called a half hour later and asked how many soil samples would be needed. I told him to send off the 3 dirtiest ones. He said nothing is really dirty. I told him that is fine. He asked that he be allowed to order testing via STARS for VOCs and SVOCs. I told him that will be fine. He said that he will talk to the Zablockis and get back to me.

Later, Mr. Horowitz sent me an e−mail memorializing the agreement between him, the Zablockis, and DEC. The agreement stated in the e−mail is: borings will take place March 31 or April 1, 3 borings opposite the existing locations will go down to 16', the

dirtiest sample will be collected, analyses will be done via STARS methods 8260 and 8270, results will be presented in an Addendum to the Phase II.

4/1/08 − Raphael Ketani. Mr. Horowitz sent me an e−mail containing a DRAFT letter for Mr. Taziva of NYC DEP. He asked me to comment on the parts of the letter mentioning correspondences between him and me. The statements regarding the correspondences appeared accurate. A made a copy of the DRAFT letter and put it in the paperfile. His DRAFT letter also mentions that the 3 additional borings were performed on April 1, 2008 and soil samples were sent to the laboratory for 24 hour turn around.

4/4/08 − Raphael Ketani. Today I received the final Subsurface Soil and Groundwater Investigtion report dated March 13, 2008 from Mr. Horowitz. The report was accompanied by a cover letter to Mr. Taziva of DEP dated 4/2/08. The cover letter states that a vapor barrier will be installed. The report did not include the soil analyses for the 3 additional borings that were requested by DEC. I had no comments regarding the letter, nor the report.

4/8/08 − Raphael Ketani. I received the analytical results for the 3 additional borings that were performed. The respective samples were B−6, B−7, and B−8. All of the results for VOCs and SVOCs were completely non−detect.

I spoke to Mr. Horowitz regarding the analytical results. I asked him why the numbering order goes 6, 7, and 8. He said that he was just following the numbering system from the previous reports. He said that no samples were missing. I asked him why the analytical sheets say that the sample type is "GRAB" when they are supposed to be the soil cores. He said that the samples are from the soil borings.

4/9/08 − Raphael Ketani. Yesterday, I received the Subsurface Soil Investigation Addendum dated 4/4/08 from Mr. Horowitz. I reviewed the document. The analytical results for borings B−6, B−7, and B−8 were the same as the ones I had previously reviewed on 4/8/08.

However, borings B−1 and B−3 were in different locations than in the 3/13/08 report. Also, the Addendum depicts boring B−4 at the location of B−2 and boring B−5 is at the location of B−3. The Addendum puts B−3 at the location of B−1 of the 3/13/08 report. Additionally, I never received the analyticals for B−4 and B−5. I tried to contact Mr. Horowitz to discuss this, but could only leave a message.

4/10/08 − Raphael Ketani. Mr. Borello of Environmental Building Solutions, LLC (646) 290−5925, exr 25 called me back. He said he was sorry for the confusion. He e−mailed me the three different site plans showing the different stages and placements of the series of borings and the well. He also e−mailed me the analytical results for 3 composite samples that were taken to characterize the soil. The analytical results were mostly non−detect with only a handle of low hits of SVOCs.

4/11/08 − Raphael Ketani. Mr. Horowitz sent me the entire analytical package from Environmental Testing Laboratories for the 3 composite samples, along with copies of the Chain of Custody Forms and the 3 different boring location site plans. I reviewed the package and had no comments.

Based upon the analytical results in the March 13, 2008 Phase II, the analytical results in the Addendum to the Phase II dated April 4, 2008, and the April 10, 2008 soil characterization testing results package, I am closing the spill case.

I sent an NFA letter to Mr. Horowitz, with a c−c to Innocent Taziva of DEP.

Map Identification Number 172 **19 NASSAU AVE./CORNER OF** **Spill Number: 8706359** **Close Date: 10/26/1987**
19 NASSAU AVE BROOKLYN, NY TT−Id: 520A−0049−163

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2392 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: 19 NASSAU AVE.
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: TEXACO/594 JAM. AVE.REALT
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: UNASSIGNED
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/26/1987	10/26/1987	OTHER	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SOIL

Caller Remarks:

COMPLAINT OF PERIODIC FIRES OCCURRING AT GASOLINE TANK IN AN ABANDONED GAS STATION.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "

Map Identification Number 173 **VAULT TM613** **Spill Number: 0412597** **Close Date: 06/20/2005**
HUMBOLDT ST. AND NASSAU A BROOKLYN, NY TT−Id: 520A−0044−667

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2420 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: HUMBOLDT ST / NASSAU AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN VESSEL	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	RON ELLIOTT	Notifier Phone:	(212) 580−8383
Caller Name:	RON ELLIOTT	Caller Agency:	CON ED	Caller Phone:	(212) 580−8383
DEC Investigator:	JHOCONNE	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/28/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1/2 A QUART OF UNKNOWN OIL IS THE PRODUCT: LAB SAMPLE WAS TAKEN. CON ED#157399

DEC Investigator Remarks:

e2mis no. 157399:

2−28−05 09:57HRS P. GENOVESE 05276 (FOD) REPORTS, FOUND 1/2 QUART OF UNKNOWN OIL ON 100 GALLONS OF WATER. AT THIS TIME OIL APPEARS TO BE CONTAINED. OIL WAS DISCOVERED WHILE PHASE CHECKING FOR FEEDER 5B21. ENV STOP TAG 40699 WAS PLACED, AND CAN NOT DETERMINE OR VERIFY IF THERE IS ANY SEWER CONNECTIONS OR SUMPS BECAUSE OF THE AMOUNT OF OIL IN STRUCTURE. ONE LIQUID SAMPLE WAS TAKEN ON A E PRIORTY AND CLEANUP PENDING LAB SAMPLE. HISTORICAL RECORDS INDICATE 1 PPM, 8−25−2001. NETWORK WAS NOTIFIED TO PRESSURE TEST AND WILL SEND FIRST AVAILABLE CREW TO LOCATION.

Lab Sequence Number: 05−01716−001
Date Approved: 2/28/2005
PCB Analysis by EPA 608/8082

TOTAL PCB < 1.0 ppm

2/28/05 = 16:30 Hrs = Env Ops Supv C. Fernandez reports that due to excessive burnouts and no lights Networks was not able to send a crew to pressure test the unit. A tentative meet was set up for 7:00 AM with Networks.

3−4−05 20:15HRS K. DOWNEY (NET) REPORTS, PRESSURE TESTED UNIT AND PASSED.

UPDATE 05−MAR−2005 10:30 HRS.

ENVIR. OPER. MECH−A A.GLOWDOSKI EMP# 18711 REPORTS: ASTORIA TANKER REMOVED 1200 GALS OF LIQUID FROM STRUCTURE. ALL DEBRIS REMOVED WITH VACTOR. DBL. WASHED STRUCTURE WITH BIO−GEN 760. NO SUMP IN STRUCTURE . ENVIR. TAG# 40699 REMOVED

Map Identification Number 174 **CON EDISON MANHOLE 12371** **Spill Number: 0911638** **Close Date: 02/23/2010**
53 DIVISON PLACE BROOKLYN, NY TT−Id: 520A−0249−085

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 2435 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 53 DIVISION PL
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: UNK OIL ON TOP OF WATER
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: ConEd Unassigned
Contact for more spill info: ERT
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/01/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

10 gallons of unk oil found mixed with water in soil. Clean up pending at this time.

DEC Investigator Remarks:

02/23/10 − See eDocs for Con Ed report detailing cleanup and closure.

2/10/10−Vought−Off hours responder. Spill assigned to DEC Feroze as part of routine Con Ed portfolio review and possible closure.
Initial EMIS #220079 entered into UIS Cross Reference Field. Initial report downloaded into Edocs and deleted from Proxy.

Map Identification Number 175 **ONE QT OIL FOUND IN MANHOLE #2694** **Spill Number: 0700409** **Close Date: 05/23/2007**
DEBEVOISE & JACKSON STREETS BROOKLYN, NY TT−Id: 520A−0051−744

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2439 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: DEBEVOISE AVE / JACKSON ST
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN − CON EDISON
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: gdbreen
Contact for more spill info: ERT DESK' MIKE DAUGHTERY
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/12/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

one quart of unknown oil on 25gal. of water in a manhole. Clean up is in progess. ConEd#205348

DEC Investigator Remarks:

05/23/07 − See e−docs for Con Ed report detailing cleanup and closure.

205348.000

Map Identification Number 176 **SERVICE BOX 12690** **Spill Number: 0008346** **Close Date: 05/07/2001**
206 KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0051−773

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2448 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 206 KINGSLAND AV
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR DONATONE	Notifier Phone:	
Caller Name:	STEVEN ROMERO	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	KMFOLEY	Contact for more spill info:	STEVEN ROMERO	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/17/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 QT OF PRODUCT ON 200 GALS WATER SAMPLE TAKEN CLEAN UP PENDING RESULTS − CON ED 133965

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
DEC INSPECTOR'S NOTES

CON ED E2MIS REPORT 10−17−00

1 qt. of unknown oil on 200gals. of water in SB 12690. It appears to be contained, no sewers or waterways affected.

10−18−00

Lab results returned <1ppm Lab#00−09996

1−14−01, 1105hrs.

Cleanup complete, no sump in structure, Env. tag #26528 removed.

1215hrs.

Cleanup completed by double washing structure with slix. Liquids were removed using coagulant and diapers. No leaking company equipment. Incident closed.

Map Identification Number 177 **MANHOLE 4935** **Spill Number: 9910034** **Close Date: 03/29/2002**

MANHOLE 4935 , NY TT−Id: 520A−0051−728
UNION AVE/DEVOE STREET

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2463 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: UNION AVE/DEVOE STREET
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name: DON HERBST
Notifier Phone: (212) 580−6763
Caller Name: RICHARD ROACHE
Caller Agency: CON EDISON
Caller Phone: (212) 580−6766
DEC Investigator: COMENALE
Contact for more spill info: CALLER
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/18/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

caller reporting 1 pint of material on 30 gal of water clean up pending lab results coned#129034 no callback necessary

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 178 **TRAFFIC ACCIDENT** **Spill Number: 0702380** **Close Date: 05/29/2007**

MEEKER AVE/METROPOLITAN A BROOKLYN, NY TT−Id: 520A−0050−811

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 2471 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / METROPOLITAN AVE
Revised zip code: 11211

Source of Spill: PASSENGER VEHICLE
Spiller: BRIAN SCOTT − BRIAN SCOTT
Spiller Phone: (917) 880−7354
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: jbvought
Contact for more spill info: FF SANACORE
Contact Person Phone: (347) 203−6886

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/28/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	10.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

CALLER REPORTS SPILL DUE TO VEH RUNNING OVER OBJECT ON THE BROOKLYN QUEENS EXPRESSWAY PUNCTURING THE GAS TANK. SPILL HAS BEEN CONTAINED AND IN THE PROCESS OF BEING CLEANED UP. SPILL DID INFILTRATE THE STORM SEWER SYSTEM.

DEC Investigator Remarks:

05/29/07−Vought−Spill cleaned by FDNY Hazmat using absorbent material and tank was also pumped by Hazmat and gasoline was disposed of by tow truck company. DEP notified with respect to impact to sewer. Spill closed by Vought due to no impact to soil and/or groundwater.

Map Identification Number 179 **SUBWAY TRACKS−NYCT** **Spill Number: 9800896** **Close Date: 02/15/2008**
257 NORTH 6TH ST BROOKLYN, NY TT−Id: 520A−0046−973

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2471 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: JOHN RILEY − NYC BOARD OF EDUCATION
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: NYC TRANSIT AUTHORITY
Notifier Phone: (718) 927−7373
Caller Name: RONALD LOCHAN
Caller Agency: NYC DEP
Caller Phone: (718) 595−4724
DEC Investigator: MCTIBBE
Contact for more spill info: RONALD LOCHAN
Contact Person Phone: (718) 595−4724

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/01/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

UNDERGROUND TANK FROM BOARD OF EDUCATION BELIEVED TO HAVE LEAKED

IN AREA OF SUBWAY. BILL MATHESON SUPERINTENDANT HAS BEEN CONTACTED ALSO.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
10/3/03 − AUSTIN − TRANS. FROM HALE TO TIBBE − END

02−15−08: According an e−mail from NYCT Liz Deluca, the area was inspected and no product was found.

Map Identification Number 180 **CAMPBELL RESIDENCE** **Spill Number: 9702730** **Close Date: 08/15/2005**
120 BEDFORD AVE BROOKLYN, NY TT−Id: 520A−0045−068

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2473 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 120 BEDFORD AV
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	KEITH CAMPBELL	Notifier Phone:	(718) 486−8446
Caller Name:	KEITH CAMPBELL	Caller Agency:	RESIDENT	Caller Phone:	(718) 486−8446
DEC Investigator:	JLDYBER	Contact for more spill info:	KEITH CAMPBELL	Contact Person Phone:	(718) 486−8446

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/03/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER CAN SMELL AND NOTICED THAT THE SOIL ON HIS PROPERTY IS A VERY DARK COLOR − CALLER DOES LIVE NEXT TO AN IDUSTRIAL COMPLEX

DEC Investigator Remarks:

8/15/05, Dyber: No call back from Keith Campbell. Administrative closure.

8/1/05, Dyber, Left another message for Keith Campbell.

7/18/05, Dyber: Left message for Keith Campbell to see if complaint was taken care of.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "M TIBBE"
F&N Mechanical, 139 North 10th Street.

Frank Dross, manager 718−384−5751. New Owner Sanjar Raz. Mr. Poliacoff former owner.

Map Identification Number 181 **LOT NEXT TO 583 DRIDGES** **Spill Number: 9904275** **Close Date: 02/14/2003**
CRN DRIGGES AVE & 8TH BROOKLYN, NY TT−Id: 520A−0050−181

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 2481 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: CRN DRIGGES AVE / 8TH
Revised zip code: 11211

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	MARY SAGAN	Caller Agency:	CITIZEN	Caller Phone:	(718) 388−1973
DEC Investigator:	SMSANGES	Contact for more spill info:	CALLER	Contact Person Phone:	(718) 388−1973

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/11/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller reports tanks leaking on site next to her residence unknown fluid believes site used to be a old autobody shop.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
SANGESLAND MADE A SITE INSPECTION ON JULY 12, 1999. THE SITE WAS AN OPEN EXCAVATION HOLE, NO EMPLOYEES ON SITE. SS WALKED DOWN TO INSPECT NEW FOUNDATION WALLS. SEVERAL OLD SMALL METAL TANKS (LIKE WELL WATER EQUIPMENT) WERE FOUND IN A PILE OF TWISTED METAL. AN AREA APPROX. 15 FEET LONG AND 5 FEET WIDE ALONG THE INSIDE OF THE WEST (DRIGGS ST) FOUNDATION WALL SHOWED AND SMELLED LIKE GASOLINE.

PROPERTY OWNER: MENDEL GOODMAN − 718−384−2124 WAS GIVEN WRITTEN INSTRUCTIONS TO HAVE THE CONTAMINATED SOIL REMOVED AND TO OBTAIN A MANIFEST SHEET FOR THE DISPOSED SOIL.

PHONE MESSAGE ON 7/15 FROM MR. GOODMAN SAID THE WORK WOULD BE DONE BY 7/21.

ADMINISTRATIVE CLOSURE − AUSTIN

Map Identification Number 182 **MANHATTAN AVE & POWERS ST** **Spill Number: 9403707** **Close Date: 03/06/1995**

MANHATTAN AVE / POWERS ST BROOKLYN, NY TT−Id: 520A−0039−391

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2496 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Local Agency
Caller Name: ROB MILLER
DEC Investigator: MCTIBBE

Spiller: UNKNOWN
Notifier Name:
Caller Agency: CLEAN HARBORS
Contact for more spill info:

Spiller Phone:
Notifier Phone:
Caller Phone: (908) 248−1997
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/16/1994		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SOIL

Caller Remarks:

WILL CLEAN UP THIS P.M.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
10/10/95: This is additional information about material spilled from the translation of the old spill file: SLUDGE MUD. CLEANED BY NYNEX.

Map Identification Number 183 **MANHOLE 63577** **Spill Number: 0406156** **Close Date: 11/12/2004**
NASSAU AVE/RUSSELL ST BROOKLYN, NY TT−Id: 520A−0038−191

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2517 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Federal Government
Caller Name: MARK SCHLAGEL
DEC Investigator: SKARAKHA
Spiller: UNKNOWN
Notifier Name: MR ANDERSON
Caller Agency: CONED
Contact for more spill info: ERT DESK
Spiller Phone:
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−8383
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/04/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Contained to manhole. No to 5 questions. Default in hole. Cleanup pending lab results. Ref#155218

DEC Investigator Remarks:

e2mis no 155218

M.BUX REPORTS FINDING APPROX 1 GAL OF UNKNOWN OIL ON APPROX 15 GAL OF WATER. THE SOURCE OF THE SPILL MAY POSSIBLY BE FROM A LEAKING OIL FITTING ON A PRIMARY JOINT. ONE LIQUID SAMPLE TAKEN. CLEAN UP PENDING SAFE ACCESS AND LAB RESULTS.

LAB SEQ# 04−07055−001 91 PPM.

UPDATE 9/4/04 11:40 HRS P. GALLO U/G SUPV REPORTS NO D−FAULT ON THE JOINT.

UPDATE 9−5−04 11:30HRS
T. FERNANDEZ (ENV OPS) REPORTS, REMOVED ONE DRUM OF DEBRIS AND FOUND CEMENTED SUMP. STRUCTURE IS NOW SOAKING IN BIO GEN 760. ALSO FOUND UNDER 25' OIL SOAKED ARC PROOFING ON FEEDER.

9/04/04 = 15:00 Hrs = Env Ops Supv C. FERNANDEZ reports that after removing 2 drums of debris Underground removed oil soaked arc proofing. structure was double washed with BioGen 760 and Slix. An Astoria tanker removed a total of 325 gallons of liquid. Tag 29024 was removed and an Astoria Transportation vehicle will pick up the drums. Job is complete.

Map Identification Number 184 **MANHOLE #64589** **Spill Number: 0200410** **Close Date: 10/16/2002**
RUSSELL & NASSAU ST BROOKLYN, NY TT−Id: 520A−0044−665

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2517 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: RUSSELL ST / NASSAU AV
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR DONATONE	Notifier Phone:	(212) 580−6764
Caller Name:	SEAN MCKEEVER	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	SEAN MCKEEVER	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/11/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 PINT UNKNOWN OIL ON 20 GALLONS OF WATER − CLEAN UP PENDING REMOVAL OF VEHICLE PARKED OVER MANHOLE − CON ED #142211 − TEST RESULTS 4 PPM

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 142−211:

4−11−02 09:55HRS M. LOZADA (UG) REPORTS, FOUND ONE PINT OF UNKNOWN OIL ON 20 GALLONS OF WATER IN MH64589. AT THIS TIME OIL

APPEARS TO BE CONTAINED AND NO SEWERS OR WATERWAYS WERE AFFECTED. NO SEWER CONNECTION OR SUMP NOTICED. ONE LIQUID SAMPLE WAS TAKEN.

4/11/02=2220hrs LAB RESULTS RETURNED 4PPM−LSN03026

UPDATE: 4/12/02 − 2040

J. MIDDLETON − ENV. OPS., REPORTS 4 PPM CLEANUP COMPLETED BY DOUBLE WASHING STRUCTURE WITH SLIX AND USING COAGULANTS. WASTE PRODUCT REMOVED WITH VACTOR. SUMP FOUND CEMENTED. TAG #26666 REMOVED.

Update − 4/13/02 − No leaking company equipment, incident is closed.

Map Identification Number 185 **GAS STATION** **Spill Number: 9909344** **Close Date: 11/02/1999**
445 METROPOLITAN AVE BROOKLYN, NY TT−Id: 520A−0051−716

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2523 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Citizen
Caller Name: FRANK CRAWFORD
DEC Investigator: JMROMMEL

Spiller: GAS STATION
Notifier Name: FRANK CRAWFORD
Caller Agency: CITIZEN
Contact for more spill info: UNK

Spiller Phone:
Notifier Phone: (718) 966−6109
Caller Phone: (718) 966−6109
Contact Person Phone: (000) 000−0000

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/01/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES TANKS ARE BEING PULLED AND STRONG ODOR OF GASOLINE IS

COMING FROM THAT AREA−MATERIAL IS BEING SPILLED FROM TANK REMOVAL ALSO.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
11/2/99

Closed and cross−referenced to spill #9909193.

Citizen’s number is incorrect.

Map Identification Number 186 **680 MANHATTAN AVE** **Spill Number: 9415336** **Close Date: 03/17/2005**
680 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0041−567

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2525 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: NYCFD & HAZMAT
Notifier Phone: (917) 882−5464
Caller Name: EUGENIA RENARD
Caller Agency: NYCDEP
Caller Phone: (718) 595−6700
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/22/1995		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

Unknown petroleum leaking from 300 gal tank into subway

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
1/26/04 − Austin − due to impact to subway, transferred to to Tibbe for check with NYCTA on status − may be related to spill #9813210 − end

03/17/05: According to a NYCT e−mail dated 3/14/05, NYCT inspected the site on 3/9/05 and found the area to be clean with no signs of a spill.

Map Identification Number 187 **433 UNION AVE** **Spill Number: 9800933** **Close Date: 05/11/1998**
433 UNION AVE BROOKLYN, NY TT−Id: 520A−0046−728

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2527 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: CUMBERLAND FARMS
Spiller Phone:
Notifier Type: DEC
Notifier Name: KEVIN HALE
Notifier Phone: (718) 776−6080
Caller Name: KEVIN HALE
Caller Agency: NYS DEC
Caller Phone: (718) 776−6080
DEC Investigator: KGHALE
Contact for more spill info: KEVIN HALE
Contact Person Phone: (718) 776−6080

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/21/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

contaminated soil noted during excavation − excavation will

continue

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HALE"

Map Identification Number 188 **MANHOLE #56358** **Spill Number: 9812352** **Close Date: 10/17/2002**
DIVISION PL/MORGAN AVE BROOKLYN, NY TT−Id: 520A−0039−581

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2570 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name: STEVEN CRIBBIN
DEC Investigator: CAENGELH

Spiller: STEVEN CRIBBIN − MANHOLE #56358
Notifier Name: STEVEN CRIBBIN
Caller Agency: CON EDISON
Contact for more spill info: STEVEN CRIBBIN

Spiller Phone: (212) 580−6763
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/06/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SAMPLE WAS TAKEN − SPILL HAS BEEN CONTAINED AND PENDING LAB RESULTS WILL BE CLEANED UP ACCORDINGLY. CON ED #122262

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis no. 122−262:

V.FAILLA # 14567 UG SPLICER SPLICING SECONDARY REPORTS FINDING IN MH56358 AN UNDIAPERABLE SHEEN OF UNKNOWN FLUID ON 1300 GALLONS OF WATER. CONTAINED TO STRUCTURE NO SEWERS OR WATERWAYS AFFECTED, LIQUID SAMPLE TAKEN WITH A 4−6 HOUR TURNAROUND & STOP TAG # 18848 PLACED. CLEANUP PENDING TEST RESULTS.

LAB RESULT RECEIVED 1/6/99 − 0901. 99−00132. <1.0 PPM.

UPDATE 1/29/99 02:30 ROSENKING FLUSH DEPT. REPORTED OIL CLEAN UP COMPLETED WITH SLIX IN MH56358 AND OIL TAG #18848 WAS REMOVED. INCIDENT IS CLOSED.

Map Identification Number 189 **MH #16092** **Spill Number: 9809860** **Close Date: 11/06/2002**
MORGAN AVE & DIVISION PL BROOKLYN, NY TT−Id: 520A−0039−545

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2570 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: MORGAN AVE / DIVISION PL
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CON ED
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: MR ZAMBRO
Notifier Phone: (212) 580−6764
Caller Name: STEPHEN CRIBBIN
Caller Agency: CON ED
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/05/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALL REPORTING THAT 4 DROPS OF UNKNOWN OIL FOUND IN MANHOLE. CON ED TO CLEAN.

CON ED #121067.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
E2MIS NOTES 121067

H.TATE #74345 OS REPORTS IN MH16092 S.W.C. MORGAN AVE & DIVISION PL HE FOUND 4 DROPS UNKNOWN OIL (WAS WORKING AND OPEN

MAIN JOB) ON 100 GAL OF WATER. HE DID NOT SEE ANY OIL FILL EQUIPMENT. HOLE CONTAINED AND NO SEWERS OR WATERWAYS

AFFECTED. A LIQUID SAMPLE WAS TAKEN (4− 6 HRS PRIORITY) AND E.S.TAG #19417 WAS PLACED. WAITING SAMPLE RESULTS FOR CLEANUP

PROCEDURES.

UPDATE 06−NOV−1998 13:45 CHEM LAB RESULTS RECEIVED SEQUENCE # 98−12215 <1PPM

UPDATE 11/9/98 ==========

W.TUDY OF FLUSH REPORTS CLEANUP COMPLETE WITH SLIX AT 2200HRS. E.S.TAG#19417 REMOVED. D.HERBST 27461

Map Identification Number 190 **Spill Number: 0013237** **Close Date: 06/23/2003**

IFO 100 MAGUNIS BLVD BROOKLYN, NY TT−Id: 520A−0044−924

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2572 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: IFO 100 MC GUINNESS BLVD
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	STEELMAN TRANSPORTATION	Spiller Phone:	
Notifier Type:	Fire Department	Notifier Name:		Notifier Phone:	
Caller Name:	JOHN LAROCCHIA	Caller Agency:	NYC FIRE HAZMAT	Caller Phone:	(718) 476−6288
DEC Investigator:	TJDEMEO	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/19/2001		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	25.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

truck was stuck in road and ran over divider to get around. ruptured tank. spill stopped and cleanup to be completed.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"
6/23/03 TJD

Street spill. Sanatation sanded roadway. No further action.

Map Identification Number 191 **535 MORGAN AVE** **Spill Number: 9204995** **Close Date: 09/03/1992**
535 MORGAN AVE BROOKLYN, NY TT−Id: 520A−0049−411

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 2573 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: BELMONT PRODUCTS INC
Spiller Phone: (718) 782−3554
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: C GJERSVIK
Caller Agency: CONTINENTAL BAKING CO
Caller Phone: (314) 982−4894
DEC Investigator: MITCHELL
Contact for more spill info:
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/30/1992	09/03/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

Caller Remarks:

STAINED SOIL DISCOVERED DURING INSTALLATION OF UST OIL WATER SEPARATOR.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 192 **RESIDENCE** **Spill Number: 0100016** **Close Date: 04/02/2001**
50 BUSHWICK AVE BROOKLYN, NY TT−Id: 520A−0039−997

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2598 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	CONTRACTOR		Spiller Phone: (000) 000−0000
Notifier Type:	Fire Department	Notifier Name:	BATT CHIEF 35		Notifier Phone: (718) 965−8300
Caller Name:	DISPATHCER 453	Caller Agency:	NYC FIRE DEPT BROOKLYN		Caller Phone: (718) 965−8300
DEC Investigator:	MXTIPPLE	Contact for more spill info:	NONE		Contact Person Phone: (000) 000−0000

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/02/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CONTRACTOR ON SCENE WAS DUMPING OIL DOWN DRAIN.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
Close and Cross reference to 0100018. FD reported twice.

Map Identification Number 193 **Spill Number: 0303594** **Close Date: 07/07/2003**

BEDFORD AVE/N 9TH ST BROOKLYN, NY TT−Id: 520A−0037−349

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2619 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN		Spiller Phone:
Notifier Type:	Citizen	Notifier Name:			Notifier Phone:
Caller Name:	CHRIS KUREK	Caller Agency:			Caller Phone: (718) 388−9647
DEC Investigator:	JXZHAO	Contact for more spill info:	CHRIS KUREK		Contact Person Phone: (718) 388−9647

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/07/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MOTOR OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

spill of product on roadway − unk source or cause − no clean up

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHAO"
7/7/2003 1:50AM: Since NYC Sanitation Hotline dose not response at midnight, Zhao contact local Fire Department for assistant. FD responded.

Map Identification Number 194 **125 NORTH 10TH ST** **Spill Number: 9902614** **Close Date: 10/18/2005**

125 NORTH 10TH ST BROOKLYN, NY TT−Id: 520A−0045−069

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2621 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name: PAT MCDERMOTT
DEC Investigator: GWBURKE

Spiller: STEVE
Notifier Name: PAT MCDERMOTT
Caller Agency: GASOLINE INSTALLATIONS
Contact for more spill info: STEVE

Spiller Phone: (917) 763−3043
Notifier Phone: (516) 371−2743
Caller Phone: (516) 371−2743
Contact Person Phone: (917) 763−3043

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
06/07/1999		UNKNOWN	2−604226	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

during a tank install an old tank was encounterd and there is a

slight odor of fuel oil in soil

DEC Investigator Remarks:

10/18/05 − Close − 2004 PBS states tanks removed and closed. GB

Map Identification Number 195 **GAS STATION** **Spill Number: 9803138** **Close Date: 06/17/1998**

417 UNION AVE BROOKLYN, NY TT−Id: 520A−0046−729

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2633 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: DEC
Caller Name: AECO PARRIS
DEC Investigator: O'DOWD

Spiller: GAS STATION
Notifier Name: JERRY ESPOSITO
Caller Agency: DEC
Contact for more spill info:

Spiller Phone:
Notifier Phone: (718) 389−0009
Caller Phone: (718) 482−4885
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/10/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

COMPLAINTANT DESCRIBED GASOLINE VAPORS IN AIR − CURRENTLY UNDER

SOME TYPE OF CONSTRUCTION − EXCAVATION OPEN

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

6/15/98 2:10 PM WENT TO GULF S/S LOCATED AT 447 UNION AVE. MET WITH BERNIE/GULF AND PETE/PETROL. TECH. UPGRADING EXISTING 3X3K FOR 1998 DEADLINES. SOIL CLEAN SAND AND NO SHEENING ON WATER IN EXCAVATION. EXCAVATION DUG DOWN TO TOP OF USTS. BERNIE SAID TANKS WERE PUMPED OUT OVER 30 DAYS AGO AND SITE HAS TRANSFERRED OWNERSHIP RECENTLY. HE SAID BORINGS WERE DONE AND SOIL DOWN TO 16 FT BG WAS DUG OUT AND HAULED OFF−SITE. NO GASOLINE VAPOR SMELL AND THEY DIDN'T RECEIVE ANY COMPLAINTS.
2:30 PM WENT OT 417 UNION AVENUE. MET WITH ANDREAS PFANNER. ITS A FINE WOODWORKING PLACE WHERE THEY DO FINISHING OF CABINETS AND LAQUERING OF WOODWORK. ONE EXHAUST, NO GASOLINE VAPORS DETECTED. HE DIDN'T HEAR OF ANY COMPLAINTS.

Map Identification Number 196 **S & S PRINTING** **Spill Number: 0205855** **Close Date: 09/02/2010**
488 MORGAN AVE BROOKLYN, NY TT−Id: 520A−0040−233

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2639 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller:
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: DAWN RUSSINI
Caller Agency: TYREE BROTHERS INV SVC
Caller Phone: (631) 249−3150 ext. 2
DEC Investigator: SFRAHMAN
Contact for more spill info: FELIX SIKAR
Contact Person Phone: (718) 388−8990

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/05/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER WAS HIRED BY POTENTIAL BUYER OF THE ABOVE LOCATION − WHILE

DOING BORE SAMPLES THERE WAS CONTAMINATED SOILS FOUND − UNK WHAT

CAUSED THE SPILL

DEC Investigator Remarks:

Gupta Kuldeep on 11/3/05−called Tyree Brothers and found 1−631−249−3150 Ext 240
Tel Number is not in service.Dawn Russini is no more with Tyree company.
Felix Sikar with S&S, Tel Number (718)−388−8990, updated Building is not
sold to Dan Randazzo.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
9/5/2002 − Sangesland spoke with Dawn Russini (631−249−3150 x240) at Tyree (She will be leaving Tyree this week − Rick Caputo x 241 will take over the case).

Tyree was hired by a potential purchaser to do a Phase I & Phase II on this site.

Seller: Felix Sikar of S&S Printing 718−388−8900

Buyer: Dan Randazzo of St. Christopher Ottilie 516−671−1253 x122

Site is a 5 story industrial warehouse which is being sold and converted to another use. (??? offices? halfway house? shelter?)

Property has a history of use as yarn dye, tannary and printing.

Phase 2 report shows borings behind the building with elevated levels of SVOC's, metals and cyanide.

Tyree is proposing some excavation work and additional testing. Unknown if the present owner will go forward with this work.

Austin − 9/30/09 − Spill project assignment transferred from Albany staff (Kx Gupta) to Rahman, for further review and action. − end

07/13/10 Performed site visit. No oil tank is being used on the premises.No report available to the owner. I contacted Tyree Environmental and rec'd an email that says they don't have any records of the phase II investigation. Due to unavailability of any investigation report, complaint can't be justified. Moreover, next course of action can't be determined without information about the level of contamination, if any exist.Spill report does n't indicate presence of significant petroleum related contamination.(sr)

CLOSED STATUS HAZARDOUS SPILLS − MISC. SPILL CAUSES − EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM AND STORMS − WITHIN 1/2 MILE SEARCH RADIUS.
All spills mapped and profiled within 1/8 mile. Between 1/8 mile and 1/2 mile search radius, spills reported to be greater than 100 units and spills reported in the NYSDEC Fall 1998 MTBE Survey are mapped and profiled. Spills reported to be less than 100 units are listed in a table at the end of this section.

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 197 **BROOKLYN QUEENS EXPRESS** **Spill Number: 0608057** **Close Date: 10/17/2006**
GRAHAM AVE EAST BOUND DIR BROOKLYN, NY TT−Id: 520A−0049−638

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 466 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: GRAHAM AVE / BROOKLYN QUEENS EXWY
Revised zip code: 11222

Source of Spill: COMMERCIAL VEHICLE
Spiller: MOBILE EXXON PLACARD #120
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: HRPATEL
Contact for more spill info: TROY SCOTT
Contact Person Phone: (917) 468−2551

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/15/2006		TRAFFIC ACCIDENT	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

SPILL DUE TO RUPTURE OF SADDLE TANKS ON TRACTOR TRAILER AS A RESULT OF AA ON OVERPASS. CLEANUP IS UNDERWAY.

DEC Investigator Remarks:

10/17/06−Hiralkuamr Patel. received during off hour duty on 10/15/06. visited site. met Mr. Scott from NYC Emergency Mgmt.
Exxon−Mobil truck was involved in accident. trailer was empty and saddle tanks of truck were not leaking and were in good

condition. truck cabin was hanging from Route 278 West above Graham Ave at Exit 33. and motor oil spilled on graham ave from broken engine. fire department had put speedy dry and as per Mr. Scott, sanitation were going to remove that sand from roadway. little oil ran to sewer. Dennis Huacan (PH. 718−595−4722) from DEP was on scene (DEP case#: 1472232). no soil impacted.

Map Identification Number 198 **GELFAND RES.** **Spill Number: 9608634** **Close Date: 10/10/1996**
398 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0041−884

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 468 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: TANK TRUCK
Notifier Type: Responsible Party
Caller Name: ANNETTE ODONNEL
DEC Investigator: SMMARTIN

Spiller: ANNETTE ODONNEL − WEATHER FUEL OIL CO
Notifier Name: TAFT SMITH (DRIVER)
Caller Agency: WEATHER FUEL OIL CO
Contact for more spill info:

Spiller Phone: (718) 647−1400
Notifier Phone: (718) 647−1400
Caller Phone: (718) 647−1400
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/10/1996		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

hose line broke on delivery truck spill to pavement and some to side of house clean up crew is enroute

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"

Map Identification Number 199 **INTERMASTER** **Spill Number: 0711236** **Close Date: 03/27/2008**
387 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0212−616

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 491 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: JEFF BOHLEN − INTERMASTER
Spiller Phone: (631) 924−3001
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RMPIPER
Contact for more spill info: JEFF BOHLEN
Contact Person Phone: (631) 924−3001

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/24/2008		EQUIPMENT FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL, GROUNDWATER

Caller Remarks:

phase two and found contaminated soil

DEC Investigator Remarks:

1/24/08 − Raphael Ketani. I spoke with Jeff Bohlen of EnviroTract (631) 924−3001. He said he represented the potential buyer, Krzysztof Kielan, Millenium Development and Construction, LLC, 57 Ballard Street, Valley Stream, NY, 11580. He said that the site is still an active cabinet making business and is owned by Henryk Zawojek.

Mr. Bohlen went on to say that the site is a 1 story commercial building. There is a gas tank (UST) in the building and a dispenser and remote fill outside. All three are out of service. Three borings were performed, one at each part of the fuel system. There are low hits of BTEX in the soil which are below TAGM. Two wells were installed. One well had 0.73 ppb benzene and one well had 1.3 ppb benzene. Total xylenes were 6.80 ppb.

The site has an "E" designation, but no one has been assigned to the case. The contact is Dan Cole, Deputy Director, NYC DEP, 59−17 Junction Blvd., 11 Floor, Flushing, NY, 11373. His phone number is (718) 595−4536.

A CSL was sent to Mr. Zawojek with a "c−c" to Mr. Cole.

3/5/08− DEC Piper − I met Envirotrac and sub contractor AARCO, onsite today. They were uncovering at least 1 550 ust that contained gasoline for motor fueling. They will remove tanks soil and piping and collect endpoints to be submitted in closure report.

3/27/08− DEC Piper recieved and reviewed closure report. Approx 19 tons of soil were removed. Endpoints were below tagm. This spill is closed. See e−docs if warranted.

Map Identification Number 200 **375 MANHATTAN AVENUE** **Spill Number: 9400072** **Close Date: 04/04/1994**

375 MANHATTAN AVENUE BROOKLYN, NY TT−Id: 520A−0041−422

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 620 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: SAME
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: FRANK SACINO
Caller Agency: PETRO OIL
Caller Phone: (718) 545−4500
DEC Investigator: CAMMISA
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/03/1994	04/04/1994	EQUIPMENT FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

LINE LEAKING − SPILL CONTAINED ON BASEMENT FL. APPLIED SPEEDI DRI − CLEANED VP − REPLACED NOZZLE LINE.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 201 **MCGUINESS BLVD & BQE** **Spill Number: 0007090** **Close Date: 10/05/2000**
MCGUINESS BLVD & BQE BROOKLYN, NY TT−Id: 520A−0051−757

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 872 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: MCGUINESS BLVD / BQE
Revised zip code: 11222

Source of Spill: TANK TRUCK
Spiller: MYSTIC TRANSPORTATION
Spiller Phone: (718) 932−9075
Notifier Type: Other
Notifier Name: MYSTIC TRANSPORTATION
Notifier Phone: (718) 932−9075
Caller Name: GIL ROWLAND
Caller Agency: ACTION ENVIRONMENTAL
Caller Phone: (704) 394−6913
DEC Investigator: SIGONA
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/15/2000		EQUIPMENT FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

DRIVESHAFT SEPARATED AND WENT INTO FUEL TANK − CONTAINED − MILLER ENVIRONMENTAL RESPONDING

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

On September 15, 2000, DEC Sigona responded to a 100 gallon diesel spill from a tanker truck leak on the Brooklyn Queens Expressway near McGuiness Blvd., in Greenpoint. The spillwas caused by a broken drive shaft which caused a leak from the piping system for the tanker truck operated by Mystic Transportation. Fortunately there were no injuries to the driver or other vehicles on the road. The diesel spilled onto the roadway and drained to storm drains which poured down under the BQE. The product was contained by FDNY, and Mystic hired MEG to perform the cleanup. NYCDEP (Andrew Kelly) issued a order to Mystic to complete the cleanup of the catch basin.

Map Identification Number 202 **43 HERBERT STREET,BKLYN/R** **Spill Number: 8606018** **Close Date: 12/23/1986**
43 HERBERT ST BROOKLYN, NY TT−Id: 520A−0051−747

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 970 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 43 HERBERT ST.
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNK
Spiller Phone:
Notifier Type: Police Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: UNASSIGNED
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/23/1986	12/23/1986	ABANDONED DRUM	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

RADIO−ACTIVE WASTE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "
10/10/95: This is additional information about material spilled from the translation of the old spill file: RADIO−ACTIVE WASTE.

Map Identification Number 203 **Spill Number: 9811933** **Close Date: 12/22/1998**
526 UNION AVE BROOKLYN, NY TT−Id: 520A−0051−746

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1586 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 526 UNION AV
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: ALEXANNDER PIAZZI
Notifier Phone: (212) 384−1000
Caller Name: OLUREMI FATIMILEHIN
Caller Agency: DEP
Caller Phone: (718) 595−4799
DEC Investigator: TOMASELLO
Contact for more spill info: OLURMI FATIMILEHIN
Contact Person Phone: (718) 595−4799

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/18/1998		ABANDONED DRUM	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 ABANDONED DRUMS IN FRONT OF ABOVE ADDRESS − DO NOT APPEAR TO BE LEAKING

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 204 **APARTMENT BLDG** **Spill Number: 8805035** **Close Date: 09/13/1988**
677 METROPOLITAN AV NYC, NY TT−Id: 520A−0047−064

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1609 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: DON PAUL FUEL OIL CO
Spiller Phone: (718) 383−1400
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name: JOHN WITHERNOW
Caller Agency: NYCDEP
Caller Phone: (212) 669−8923
DEC Investigator: JCGRATHW
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/09/1988	09/13/1988	TANK OVERFILL	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	300.00	GALLONS	200.00	GALLONS	SOIL

Caller Remarks:

NYFD PUMPED 200 GALS INTO DRUMS, COVERED REMAINING PRODUCT. NYFD HAS NOTIFIED SPILLER TO FINISH CLEAN−UP.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "GRATHWOL"

Map Identification Number 205 **TM 640** **Spill Number: 0107722** **Close Date: 12/28/2001**

HERBERT ST & KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0037−294

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1822 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: HERBERT ST / KINGSLAND AVE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: CALLER − CON ED
Spiller Phone: (212) 580−6763
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: MARK SCHLAGEL
Caller Agency: CON ED
Caller Phone: (212) 580−6765
DEC Investigator: KMFOLEY
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/29/2001		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER REPORTS 100 GALLON SPILL FROM FAULTY TRANSFORMER. CON ED #140005. CLEANUP PENDING TANKER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"

E2MIS NOTES:

10/29 10:30 HOURS: APPROX. 100 GALLONS OF TRANSFORMER OIL ON 3 FEET OF OIL SOAKED DIRT IN TM−640. RECORDS SHOW 120 PPM.

PRESSURE TESTED AND FAILED.

Update 10/29/01, 23:20hrs:

Test results showed 168ppm PCB. The crew noticed a 5" drain in the corner of the manhole and possibly some product got into the drain. There was 3' of dirt over the hole.

10/30/01 1340 hours: Unit was removed.

1930 hrs: clean up completed, double washed structure.

Map Identification Number 206 **522 METROPOLITAN AVE** **Spill Number: 9515443** **Close Date: 02/24/2003**

522 METROPOLITAN AVE BROOKLYN, NY TT−Id: 520A−0046−730

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2199 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	JACOB − TERMINAL OIL COMPANY	Spiller Phone:	(718) 369−2825
Notifier Type:	Local Agency	Notifier Name:	SHANTEL VINSON	Notifier Phone:	(718) 595−6777
Caller Name:	SHANTEL VINSON	Caller Agency:	DEP	Caller Phone:	(718) 595−6777
DEC Investigator:	TOMASELLO	Contact for more spill info:	MS CASTANO	Contact Person Phone:	(718) 782−4799

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/29/1996		TANK OVERFILL	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	300.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TANK OVERFILL INTO SOIL − ALTERNATIVE PHONE # 718−330−3236 MR MUNZO

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 207 **810 METROPOLITAN AV/MERIT** **Spill Number: 8807632** **Close Date: 12/18/1988**

810 METROPOLITAN AVENUE BROOKLYN, NY TT−Id: 520A−0040−886

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2241 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: DRIVER (PHILIP HALL)
Spiller Phone: (516) 731−4100
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: ROBERT RYAN
Caller Agency: CITIZEN
Caller Phone: (516) 694−4800
DEC Investigator: TOMASELLO
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/18/1988	12/18/1988	HUMAN ERROR	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

SPEEDY DRY CREW ON THE WAY.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 208 **NATIONAL DRUM** **Spill Number: 8601471** **Close Date: 06/02/1986**
35 BEADEL STREET BROOKLYN, NY TT−Id: 520A−0049−416

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2302 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Affected Persons
Caller Name:
DEC Investigator: UNASSIGNED

Spiller: NATIONAL DRUM. CO.
Notifier Name:
Caller Agency:
Contact for more spill info:

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/02/1986	06/02/1986	EQUIPMENT FAILURE	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

BETWEEN KINGSLAND & MORGAN JUST OFF B.Q. EXPRESSWAY− NO ACTION AS YETCOMPLAINT WAS PREVIOUSLY RPTD TP EPA−ODOR ABD PATRICULATE PROBLEMS

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "
10/10/95: This is additional information about material spilled from the translation of the old spill file: 5OAP DETERGENT PART.

06/02/86: ONGOING FOR SEVERAL YEARS.

NO ACTION. EPA WAS NOTIFIED SOME YEARS AGO.

PROBLEM SCACRENED. BUT NOW RESUMED.

Map Identification Number 209 **Spill Number: 0201184** **Close Date: 06/10/2002**
505 MORGAN AVE BROOKLYN, NY TT−Id: 520A−0049−413

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2497 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: CITIZEN
Notifier Phone:
Caller Name: LEROY MURPHY
Caller Agency: DEP
Caller Phone: (718) 595−6777
DEC Investigator: JBVOUGHT
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/01/2002		ABANDONED DRUM	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	220.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

4 55 gallon drums abandoned.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"
5/8/2002−Vought−No drum found. Spill closed. 5/30/2002−Site visit again after call from Peter Tarnowski 718/782−3554 stating that he had moved drums inside during previous drum run. Drums were moved outside for 5/30/2002 run and were found to contain contaminated soil. Drums were picked up by Milro Associates. Spill closed by Vought.

Map Identification Number 210
Spill Number: 0111362
Close Date: 03/11/2002

ANTHONY ST/MORGAN AVE
BROOKLYN, NY
TT−Id: 520A−0037−303

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2639 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL VEHICLE
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name: NY CITY FD
Caller Agency:
Caller Phone: (718) 622−6903
DEC Investigator: MXTIPPLE
Contact for more spill info: NY CITY FD
Contact Person Phone: (718) 662−6903

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/01/2002		TRAFFIC ACCIDENT	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	150.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TRACTOR TRAILER ACCIDENT CAUSED SADDLE TANK TO RUPTURE − SEWER ALSO AFFECTED − FIRE DEPT ON SCENE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
3/11/2002 FDNY CLEANED UP ROADWAY SPILL

THE FOLLOWING CLOSED SPILLS FOR THIS CATEGORY WERE REPORTED BETWEEN 1/8 MILE AND 1/2 MILE FROM THE SUBJECT ADDRESS. THESE SPILLS WERE REPORTED TO BE LESS THAN 100 UNITS IN QUANTITY AND CAUSED BY: EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM OR STORMS. THESE SPILLS ARE NEITHER MAPPED NOR PROFILED IN THIS REPORT.

FACILITY ID	FACILITY NAME	STREET	CITY
9806871	FROST & MEEKER AVE	64 FROST STREET	BROOKLYN
9805219	179 RICHARDSON ST	179 RICHARDSON ST	BROOKLYN
9606564	30 HERBERT	30 HERBERT ST	GREENPORT
9509231	MEEKER AVE & HUMBOLDT ST	MEEKER AVE & HUMBOLDT ST	BROOKLYN
8804872	BKLYN QUNS EXPWY/HUMBOLT	BQE NORTHBOUND/HUMBOLT ST	NEW YORK CITY
0301048	BROOKLYN QUEENS EXPRESSWA	AND HUMBLE STREET	BROOKLYN
0005156	MEEKER AVE/MCGUINESS BLVD	MEEKER AVE/MCGUINESS BLVD	BROOKLYN
0005147	BROOKLYN QUEENS EXP	MEEKER/MCGUINNESS	BROOKLYN
9902388	EXIT RAMP OFF BQ EXPRESSW	HERBERT ST & HUMBOLDT ST	BROOKLYN
9801444	ALLEY WAY	735 LORIMER ST	BROOKLYN
8803052	BROOKLYN−QUEENS EXPWY	BKLYN/QUNS EXPWY/MEEKER	NEW YORK CITY
9214462	55 ECKFORD ST.	55 ECKFORD ST	BROOKLYN
0608722	SIDEWALK	139 SKILLMAN AVE	BROOKLYN
9401305	66 JACKSON STREET	66 JACKSON STREET	BROOKLYN
0601645	BFI WASTE SYSTEMS	214 RICHARDSON ST	BROOKLYN

0003074	VB6017	208 WITHER ST	BROOKLYN
8701082	SKILLMAN AVE. & GRAHAM AV	SKILLMAN AVE./GRAHAM AVE.	NEW YORK CITY
9707004	AMOCO STATION	243 MEEKER AVENUE	BROOKLYN
9109966	419 HUMBOLDT ST	419 HUMBOLDT ST	BROOKLYN
0209583		95 CONSELYEA ST	BROOKLYN
0712041	BQE−SOUTHBOUND	HENRY & MEEKER	BROOKLYN
9904400	MANHOLE #4429	DRIGGS AVE & NEWEL ST	BROOKLYN
1206606	OIL SPILL TO BASEMENT	563 MANHATTAN AVENUE	BROOKLYN
9513215	522 LEONARD ST	522 LEONARD ST	BROOKLYN
9511565	101 ECKFORD ST	101 ECKFORD STREET	BROOKLYN
9310560	101 ECKFORD STREET	101 ECKFORD STREET	BROOKLYN
0609437	DYMEK HOME	101 ECKFORD STREET	BROOKLYN
0511246	PRIVATE RESIDENCE	101 ECKFORD STREET	BROOKLYN
0801257	NORTH 11TH	ROEBLING STREET	BROOKLYN
0400060	TM 1142	11TH/ROEBLING STREET	BROOKLYN
9308021	677 METROPOLITAN AVENUE	677 METROPOLITAN AVENUE	BROOKLYN
9302207	385 HUMBOLDT ST.	385 HUMBOLDT ST	BROOKLYN
9813210		610 MANHATTAN AVE	BROOKLYN
9413301	106 KINGSLAND AVENUE	106 KINGSLAND AVENUE	BROOKLYN
1005554	COMMERCIAL BLDG W/ APTS ON TOP	271 FROST ST	BROOKLYN
9813147	LONG JIM KITCHEN	329 GRAHAM AVE	BROOKLYN
0201573		236 SKILLMAN AVE	BROOKLYN
9500338	764 METROPOLITAN AVE	764 METROPOLITAN AVENUE	BROOKLYN
0012499		561 METROPOLITAN AVE	BROOKLYN
9502053	LEONARD AVE & DEVOE ST	LEONARD AVE / DEVOE ST	BROOKLYN
0905854	SOCCI RESIDENCE	177 DEVOE ST	BROOKLYN
9303588	BEDFORD & NASSAU AVES	BEDFORD & NASSAU AVES	BROOKLYN
0509415	VAULT #VS849	BEDFORD AVE SO. OF NASSAU AVE	BROOKLYN
8901576	SHELL	2 BUSHWICK AVENUE	BROOKLYN
0513496	AMACO GAS STATION	2 BUSHWICK AVENUE	BROOKLYN
9414974	107 BEDFORD AVENUE	107 BEDFORD AVENUE	BROOKLYN
0402290	MANHOLE 646	BEDFORD AVE	BROOKLYN
1110118	PRIVATE DWELLING	184 DEVOE ST.	BROOKLYN
1103863	WAREHOUSE	25 DIVISION PLACE	BROOKLYN
8909052	MERIT S/S / BKLN	METROPOLITAN & BUSHWICK	BROOKLYN
8903546	METROPOLITAN AVE/MERRIT	METROPOLITAN&BUSHWICK AVE	NEW YORK CITY
0304895		582 LENARD ST	BROOKLYN
0505281	MANHOLE #620	KINGSLAND AVE & DRIGGS AVE	BROOKLYN
0706476	ALONG SIDE OF ROAD WAY	304 NORTH 7TH STREET	BROOKLYN
0408049	NYC HOUSING AUTHORITY	295 JACKSON AVE	BROOKLYN
9709589	ACROSS FROM HIGH SCHOOL	N 7TH ST	BROOKLYN
9901637	VAULT 5661	661 MANHATTAN AVE	BROOKLYN
0600390	TRUCK 60688 HYDRAULIC LEAK	LORIMER STREET & AINSLIE STREET	BROOKLYN
0811706	GAS STATION JK PETROLEUM	447 UNION AVE	BROOKLYN

9512040	25 BUSHWICK AVE	25 BUSHWICK AVE	BROOKLYN
0701659	WINTER RESIDENCE	167 N. 9TH ST	BROOKLYN
0303503	CON ED	N. 6TH STREET/MEEKER AVE	BROOKLYN
9702070	BQE E/B &	METROPOLITAN AV	BROOKLYN
9606041	BROOKLYN QUEENS EXPWY	AT METROPOLITAN AVE	BROOKLYN
8804145	BKLN−QNS EXPWY	BETW MEEKER & MTRPLTN AVS	NEW YORK CITY
1112918	ROADWAY	BQE WEST BOUND OFF THE MET. AVE	BROOKLYN
0307923	BROOKLYN KINGS EXPRESSWAY	AND METROPOLITAN AVE	BROOKLYN
0204909		BROOKLYN QUEENS EXPRESSWAY NO BO @ METROPOLETAN	BROOKLYN
0890037	205393; MASPETH AVE	MASPETH AVE	
9910186	RODNEY STREET	IN THE AREA OF 485 RODNEY	BROOKLYN
9509511	687 MEEKER AVENUE	687 MEEKER AVENUE	BROOKLYN
8910037	185 POWERS ST − BKLN	185 POWERS ST	BROOKLYN
0200153		MORGAN AVE/BEETLE AVE	BROOKLYN
0200149	ROADWAY	BEADEL ST/MORGAN AVE	BROOKLYN
0603190	MANHOLE # 4384	688 MANHATTAN AVENUE	BROOKLYN
9812628		DIVISION AVE/MORGAN ST	BROOKLYN
9913950	ROADWAY	LOMBARDI ST/MORGAN AVE	BROOKLYN
0503810	INTERSECTION OF	LOMBARDY STREET AND MORGE	BROOKLYN
0312266	TM #1827	MORGAN/LABARDY STREET	BROOKLYN
0513280	RESIDENCE	92 NORMAN AVE	BROOKLYN
0100018		50 BUSHWICK AVE	BROOKLYN
0801005	S/S BREAKER LEAKED DURING REMOVAL	324 AINSLIE ST. SUBSTATION	BROOKLYN
9309397	536 DRIGGS AVENUE	536 DRIGGS AVENUE	BROOKLYN
9108752	536 DRIGGS AVE	536 DRIGGS AVENUE	BROOKLYN
9006886	536 DRIGGS AVE/BKLYN	536 DRIGGS AVENUE	NEW YORK CITY
9913668	BEDFORD AVE AND NORTH 9TH	STREET	BROOKLYN
9302676	122 NORMAN AVE	122 NORMAN AVE	

NO OIL STORAGE FACILITIES LARGER THAN 400,000 GALLONS IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PETROLEUM BULK STORAGE FACILITIES LESS THAN 400,000 GALLONS IDENTIFIED WITHIN THE 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 211 **ISRAEL M DOLGIN ASSOC** **Facility Id: 2−090301** **Source: NYS DEC**
101 RICHARDSON STREET BROOKLYN, 11211 TT−Id: 640A−0018−739

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 197 feet to the WSW*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Manufacturing (Other than Chemical)/Processing
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: PATRICK CORZIE
Owner Name: NEIL DOLGIN − VP
Owner Company: ISRAEL M.DOLGIN ASSOCIATES
Owner Address: 101 RICHARDSON ST, BROOKLYN, NY 11211

Operator Phone #: (718) 388−7700
Owner Type: Corporate or Commercial

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − In Place	#6 Fuel Oil	5000	Underground			09/30/1988

TANK NUMBER: 001
TANK EXT. PROTECTION: None
PIPING EXT. PROTECTN: None
PIPING TYPE: Steel/Carbon Steel/Iron
OVERFILL PROTECTION: Product Level Gauge (A/G)

TANK TYPE: Steel/Carbon Steel/Iron
TANK LEAK DETECTN: None
PIPING LEAK DETECTN: Exempt Suction Piping
PIPING LOCATION: No Piping
SPILL PREVENTION:

TK INT. PROTECTION: None
TK SEC. CONTAINMNT: Vault (w/o access)
PIPE SEC. CONTAINMNT:
DISPENSER METHOD: Suction

Map Identification Number 212 **ISREAL M DOLGIN ASSC** **Facility Id: NY05058** **Source: NYC FIRE DEPT**
87 RICHARDSON ST BROOKLYN, NY 11211 TT−Id: 660A−0004−930

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 313 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: F O OV 2500G

Map Identification Number 213 **278 FUEL STOP, INC.** **Facility Id: 2−510793** **Source: NYS DEC**
392 LEONARD STREET BROOKLYN, 11211 TT−Id: 640A−0018−742

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 386 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Retail Gasoline Sales
Site Status: Active
Expiration Date of the facility's registration certificate: 02/16/2014
Operator Name: KULDEEP SINGH
Operator Phone #: (718) 388−3329
Owner Name: − SECRETARY
Owner Company: 278 FUEL STOP, INC.
Owner Type: Corporate or Commercial
Owner Address: 392 LEONARD STREET, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	Gasoline	4000	Underground	08/01/1972	07/19/2012	
The following tank 001 content has been deleted or replaced: Diesel							
002	Closed − Removed	Gasoline	550	Underground	11/01/1939	01/01/1994	04/01/1999
003	Closed − Removed	Gasoline	550	Underground	11/01/1939	01/01/1994	04/01/1999
004	Closed − Removed	Gasoline	550	Underground	11/01/1939	01/01/1994	04/01/1999
005	Closed − Removed	Gasoline	550	Underground	11/01/1939	01/01/1994	04/01/1999
006	Closed − Removed	Waste Oil/Used Oil	550	Underground	11/01/1939		06/13/2009
The following tank 006 content has been deleted or replaced: Diesel							
006A	In Service	Diesel	4000	Underground	04/01/1999		
007A	In Service	Diesel	4000	Underground	04/01/1999		
The following tank 007A content has been deleted or replaced: Gasoline							
008A	In Service	Gasoline	4000	Underground	04/01/1999		

Map Identification Number 214 **A−I AUTO REPAIRS INC.** **Facility Id: 2−611136** **Source: NYS DEC**
392 LEONARD STREET BROOKLYN, 11211 TT−Id: 640A−0086−632

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 386 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Auto Service/Repair (No Gasoline Sales)
Site Status: Active
Expiration Date of the facility's registration certificate: 07/22/2014
Operator Name: AVTAR SINGH
Operator Phone #: (718) 388−3464

Owner Name:
Owner Company: AVTAR SINGH
Owner Address: 126 BERWOOD DR., LINDEN, NJ 07036
Owner Type:

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
1	In Service	Waste Oil/Used Oil	250	Aboveground on Crib Rack or Cradle	06/01/2008		

Map Identification Number 215 **JUNIOR HIGH SCHOOL 126 − BROOKLYN** **Facility Id: 2−356476** **Source: NYS DEC**
424 LEONARD STREET BROOKLYN, 11222 TT−Id: 640A−0018−741

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 433 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: 424 LEONARD ST
Revised zip code: NO CHANGE

Facility Type: School
Site Status: Active
Expiration Date of the facility's registration certificate: 06/28/2013
Operator Name: PLANT OPERATIONS
Operator Phone #: (718) 349−5400
Owner Name: JAMES A. MERLO − MANAGER, FUEL DIVISION
Owner Company: NEW YORK CITY DEPARTMENT OF EDUCATION
Owner Type: Local Government
Owner Address: 44−36 VERNON BOULEVARD, LONG ISLAND CITY, NY 11101

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#4 Fuel Oil	10000	Aboveground on Crib Rack or Cradle	03/22/1966		
002	In Service	#4 Fuel Oil	10000	Aboveground on Crib Rack or Cradle	03/22/1966		

Map Identification Number 216 **D L BRENNER & SONS INC** **Facility Id: 2−257958** **Source: NYS DEC**
407 LEONARD ST BROOKLYN, 11222 TT−Id: 640A−0018−740

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 469 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Unknown
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: D L BRENNER & SONS INC
Operator Phone #: (718) 387−8785
Owner Name:
Owner Company: D L BRENNER REALTY
Owner Type:
Owner Address: 508 BRIARWOOD CIRCLE, HOLLYWOOD, FL 33024

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	Diesel	550	Underground			10/01/1990
002	Closed − Removed	Diesel	550	Underground			10/01/1990
003	Closed − Removed	Gasoline	550	Underground			10/01/1990
004	Closed − Removed	Other	550	Underground			10/01/1990
005	Closed − Removed	Other	550	Underground			10/01/1990

Map Identification Number 217 **INTER MASTER CORP** **Facility Id: 2−610788** **Source: NYS DEC**
387 MANHATTAN AVE. BROOKLYN, 11211 TT−Id: 640A−0081−264

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 494 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Other
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: HENRYK ZAWOJEK
Operator Phone #: (718) 349−6291
Owner Name: HENRYK ZAWOJEK − PRES
Owner Company: HENRYK ZAWOJEK
Owner Type: Corporate or Commercial
Owner Address: 387 MANHATTAN AVE, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	Gasoline	750	Underground	06/05/2003		03/05/2008
002	Closed − Removed	Gasoline	550	Underground	06/05/2003		03/06/2008

Map Identification Number 218 **DAMATO SALES & SERVICES** **Facility Id: NY03031** **Source: NYC FIRE DEPT**
104 FROST ST BROOKLYN, NY 11211 TT−Id: 660A−0005−095

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 497 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: SG 1 550G GAS ADD 1 TK GAS
ALT−8/87 (MAKE UNKWN)
ADDL 9 AUTOS M.V. −6

Map Identification Number 219 **TRICO ELECTRICAL CORP.** **Facility Id: 2−069140** **Source: NYS DEC**
495 GRAHAM AVE BROOKLYN, 11222 TT−Id: 640A−0019−450

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 517 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Trucking/Transportation/Fleet Operation
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: PETER TRILIVAS
Operator Phone #: (718) 853−7070
Owner Name: PETER TRILIVAS − OWNER/OPERATOR
Owner Company: 495 GRAHAM AVENUE LLC
Owner Type: Corporate or Commercial
Owner Address: 495 GRAHAM AVENUE, BROOKLYN, NY 11222

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − In Place	Diesel	4000	Underground	07/01/1981	06/01/1997	11/15/2008

The following tank 001 content has been deleted or replaced: Gasoline

Map Identification Number 220 **FDNY ENGINE 229 / LADDER 146** **Facility Id: 2−600510** **Source: NYS DEC**
75 RICHARDSON STREET BROOKLYN, 11211 TT−Id: 640A−0018−743

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 548 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Other
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: COMPANY OFFICER
Operator Phone #: (718) 965−8229
Owner Name:
Owner Company: F.D.N.Y.
Owner Type: Local Government
Owner Address: 250 LIVINGSTON STREET, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	#2 Fuel Oil	2000	Aboveground − In Contact with Soil	12/01/1997		12/01/1997
002	Closed − In Place	Gasoline	275	Underground	05/01/1997		05/01/1997
003	In Service	Diesel	550	Aboveground on Crib Rack or Cradle	12/01/1997		

**** TANK INFO CONTINUES ON NEXT PAGE ****

Map Identification Number 221 **MOBILE SYSTEMS UNIT** **Facility Id: 2−045799** **Source: NYS DEC**
75 FROST STREET BROOKLYN, 11211 TT−Id: 640A−0018−737

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 584 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 75 FROST ST
Revised zip code: NO CHANGE

Site Status: Unregulated
Expiration Date of the facility's registration certificate:

Facility Type: Utility (Other than Municipal)

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

TANK INFORMATION
Aboveground tanks: No Underground tanks: No

Operator Name: MICHAEL P. RICATTO
Operator Phone #: (718) 387−6720
Owner Name:
Owner Company: MICHAEL P. RICATTO
Owner Type: Corporate or Commercial
Owner Address: 391 LEONARD STREET, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed−In Place	UNLEADED GASOLINE	4000	Underground	06/01/1971		
002	In Service	UNLEADED GASOLINE	4000	Underground	06/01/1971		

Map Identification Number 222 **ALL BORO** **Facility Id: 2−609713** **Source: NYS DEC**
391 LEONARD STREET BROOKLYN, 11211 TT−Id: 640A−0018−738

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 584 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Manufacturing (Other than Chemical)/Processing
Site Status: Active
Expiration Date of the facility's registration certificate: 09/30/2014
Operator Name: MICHAEL RICATTO
Operator Phone #: (718) 387−0702
Owner Name: MICHAEL RICATTO − PRESIDENT
Owner Company: MICHAEL RICATTO
Owner Type: Corporate or Commercial
Owner Address: 391 LEONARD STREET, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#2 Fuel Oil	3000	Aboveground − In Contact with Soil	06/13/1950		

Map Identification Number 223 **FRATELLI RICATTO** **Facility Id: NY04036** **Source: NYC FIRE DEPT**
391 LEONARD ST BROOKLYN, NY 11211 TT−Id: 660A−0004−933

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 584 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: FUEL OIL 2500G

Map Identification Number 224 **CREST BODY EQUIP CRP** **Facility Id: NY02925** **Source: NYC FIRE DEPT**
72 BAYARD ST BROOKLYN, NY 11222 TT−Id: 660A−0004−929

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 595 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: FUEL OIL #2 1500G

HAZARDOUS WASTE GENERATORS/TRANSPORTERS IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 225 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004043931**
NYSDEC Address: MEEKER AVE & RICHARDSON NEW YORK, NY 10003 TT−Id: 740A−0012−490

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / RICHARDSON ST
Revised zip code: 11211

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	27	KILOGRAMS	GENERATED	1999		

Map Identification Number 226 **NYSDEC Name:** **CONSOLIDATED EIDSON** **Facility Id: NYP004137071**
NYSDEC Address: MEEKER & MANHATTAN MH64805 BROOKLYN, NY 11201 TT−Id: 740A−0015−475

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / MANHATTAN AVE
Revised zip code: 11222

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	426	KILOGRAMS	GENERATED	2005		

Map Identification Number 227 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004203194**

NYSDEC Address: MEEKER−N−RICHARDSON MH #71303 BROOKLYN, NY TT−Id: 740A−0077−361

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / RICHARDSON ST
Revised zip code: 11222

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	No hazardous waste activity reported by NYS up to 11/2/2012.						

Map Identification Number 228 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004223194**

NYSDEC Address: MEEKER & RICHARDSON BROOKLYN, NY TT−Id: 740A−0076−265
EPA (RCRA) Name: CON EDISON MANHOLE 71303
EPA (RCRA) Address: MEEKER & RICHARDSON BROOKLYN, NY 11204

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / RICHARDSON ST
Revised zip code: 11222

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: CHARLES CARRILLO Source Type: Emergency Contact Phone: 718−204−4455 Contact Info Date: 01/05/2011
Contact Name: CHARLES CARRILLO Source Type: Implementer Contact Phone: 718−204−4455 Contact Info Date: 02/04/2011

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		240	KILOGRAMS	GENERATED	2011		
D008	Lead						
D007	Chromium						
D006	Cadmium						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						

Map Identification Number 229 **NYSDEC Name:** **NYSDOT BIN 1065609** **Facility Id: NYR000155804**

NYSDEC Address: I−278 OVER MANHATTAN AVE BROOKLYN, NY 11222 TT−Id: 740A−0062−335
EPA (RCRA) Name: NYSDOT BIN 1065609
EPA (RCRA) Address: I−278 OVER MANHATTAN AVE BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: I−278 / MANHATTAN AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: LARGE QUANTITY GENERATOR
Notification date: 12/27/2007
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: CARL KOCHERSBERGER Source Type: Implementer Contact Phone: 518−485−9161 Contact Info Date: 12/26/2007
Contact Name: CARL KOCHERSBERGER Source Type: Notification Contact Phone: 518−485−9161 Contact Info Date: 12/27/2007

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 230 **NYSDEC Name:** **CITY BARREL & DRUM CO INC** **Facility Id: NYD068298835**

NYSDEC Address: 421 MEEKER AVE BROOKLYN, NY 11222 TT−Id: 740A−0011−036
EPA (RCRA) Name: CITY BARREL & DRUM CO INC
EPA (RCRA) Address: 421 MEEKER AVE BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 190 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

This facility has been deleted from the reported data. Data reflects last reported information.
US EPA RCRA Type: GENERATOR TYPE NOT GIVEN Notification date: 11/28/1980
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter: No current info −− Previously reported
Contact Name: HARRY GOLDSTEIN Source Type: Implementer Contact Phone: 201−388−9227 Contact Info Date: 01/01/2007
Contact Name: HARRY GOLDSTEIN Source Type: Notification Contact Phone: 201−388−9227 Contact Info Date: 11/28/1980

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	No hazardous waste activity reported by NYS up to 11/2/2012.						

Map Identification Number 231 **NYSDEC Name:** **NYC BOARD OF EDUCATION PS 126 K** **Facility Id: NYR000106922**

NYSDEC Address: 424 LEONARD ST BROOKLYN, NY 11222 TT−Id: 740A−0011−709
EPA (RCRA) Name: NYC BD OF ED − IS 126K
EPA (RCRA) Address: 424 LEONARD ST BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 366 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR Notification date: 06/06/2002
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: BERNARD ORLAN Source Type: Implementer Contact Phone: 718−391−6475 Contact Info Date: 01/01/2007
Contact Name: BERNARD ORLAN Source Type: Notification Contact Phone: 718−391−6475 Contact Info Date: 06/06/2002

Historically listed as the following USEPA RCRA Generator Size(s) as well:
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	492	KILOGRAMS	GENERATED	2012		
More than one waste code was reported for the following waste amount:		20	KILOGRAMS	GENERATED	2012		
B002	Petroleum oil or other liquid containing 50 ppm < PCBs < 500 ppm						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						
D002	Solid waste that exhibits the characteristic of corrosivity	30	POUNDS	GENERATED	2009	325	2004
D003	Solid waste that exhibits the characteristic of reactivity	70	POUNDS	GENERATED	2009		
D005	Barium	30	POUNDS	GENERATED	2009		
More than one waste code was reported for the following waste amount:		40	POUNDS	GENERATED	2009		
D001	Solid waste that exhibits the characteristic of ignitability						
D007	Chromium						
D001	Solid waste that exhibits the characteristic of ignitability	40	POUNDS	GENERATED	2008		
D008	Lead	140	POUNDS	GENERATED	2008		
D009	Mercury	5	POUNDS	GENERATED	2008		
More than one waste code was reported for the following waste amount:		30	POUNDS	GENERATED	2008		
D001	Solid waste that exhibits the characteristic of ignitability						
D008	Lead						
D007	Chromium	5	POUNDS	GENERATED	2004		
P075	Pyridine, 3−(1−methyl−2−pyrrolidinyl)−, (S)−, & salts	5	POUNDS	GENERATED	2004		
D002	Solid waste that exhibits the characteristic of corrosivity	1	LITERS	GENERATED	2003		

NOTE: 2012 waste amounts are for 1/1/12 to 11/2/12 only

Map Identification Number 232 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004153664**
NYSDEC Address: BAYARD ST & LEONARD ST BROOKLYN, NY TT−Id: 740A−0062−069

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 407 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: BAYARD ST / LEONARD ST
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		150	KILOGRAMS	GENERATED	2007		
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						
D006	Cadmium						
D007	Chromium						
D008	Lead						

Map Identification Number 233 **NYSDEC Name:** **NYSDOT BIN 106560A** **Facility Id: NYR000155788**
NYSDEC Address: I−278 EB OVER GRAHAM AVE BROOKLYN, NY 11222 TT−Id: 740A−0062−333
EPA (RCRA) Name: NYSDOT BIN 106560A
EPA (RCRA) Address: I−278 EB OVER GRAHAM AVE BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 466 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: I−278 / GRAHAM AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: LARGE QUANTITY GENERATOR
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: 12/27/2007
Incinerator:
Transporter:

Contact Name: CARL KOCHERSBERGER Source Type: Implementer Contact Phone: 518−485−9161 Contact Info Date: 12/26/2007
Contact Name: CARL KOCHERSBERGER Source Type: Notification Contact Phone: 518−485−9161 Contact Info Date: 12/27/2007

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 234 **NYSDEC Name:** **NYSDOT BIN 106560B** **Facility Id: NYR000155796**

NYSDEC Address: I−278 WB OVER GRAHAM AVE BROOKLYN, NY 11222 TT−Id: 740A−0062−334
EPA (RCRA) Name: NYSDOT BIN 106560B
EPA (RCRA) Address: I−278 WB OVER GRAHAM AVE BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 466 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: I−278 / GRAHAM AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: LARGE QUANTITY GENERATOR
Notification date: 12/27/2007
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: CARL KOCHERSBERGER Source Type: Implementer Contact Phone: 518−485−9161 Contact Info Date: 12/26/2007
Contact Name: CARL KOCHERSBERGER Source Type: Notification Contact Phone: 518−485−9161 Contact Info Date: 12/27/2007

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 235 **NYSDEC Name:** **GRAF AIR** **Facility Id: NYD986929677**

NYSDEC Address: 407 LEONARD ST BROOKLYN, NY 11201 TT−Id: 740A−0013−452
EPA (RCRA) Name: GRAF AIR PROPERTY
EPA (RCRA) Address: 407 LEONARD ST BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 477 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: 407 LEONARD STREET
Revised zip code: 11222

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: 11/02/1990
Land Disposal:
Receives offsite waste:
Incinerator:
Storer:
Treatment facility:
Transporter:
Contact Name: PAT FITZGERALD
Source Type: Implementer
Contact Phone: 815−338−3120
Contact Info Date: 01/01/2007
Contact Name: PAT FITZGERALD
Source Type: Notification
Contact Phone: 815−338−3120
Contact Info Date: 11/02/1990

Historically listed as the following USEPA RCRA Generator Size(s) as well:
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
D001	Solid waste that exhibits the characteristic of ignitability	110	GALLONS	GENERATED	1990		

Map Identification Number 236
NYSDEC Name: **NYC FIRE DEPT ENGINE CO 229**
Facility Id: NYR000040410
NYSDEC Address: 75 RICHARDSON ST BROOKLYN, NY 11211
TT−Id: 740A−0011−619
EPA (RCRA) Name: NYC FIRE DEPT ENGINE CO 229
EPA (RCRA) Address: 75 RICHARDSON ST BROOKLYN, NY 112111305

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 551 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: 06/04/1997
Land Disposal:
Receives offsite waste:
Incinerator:
Storer:
Treatment facility:
Transporter:
Contact Name: ROBERT WING
Source Type: Notification
Contact Phone: 718−981−7683
Contact Info Date: 06/04/1997

Historically listed as the following USEPA RCRA Generator Size(s) as well:
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 237 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004029153**
NYSDEC Address: MH64805−MEEKER AVE & FROST ST NEW YORK, NY TT−Id: 740A−0014−936

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: FROST ST / MEEKER AV
Revised zip code: 11211

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	809	KILOGRAMS	GENERATED	1998		

Map Identification Number 238 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004150322**
NYSDEC Address: MEEKER AVE AND FROST ST BROOKLYN, NY 11211 TT−Id: 740A−0063−837
EPA (RCRA) Name: CON EDISON MANHOLE 64805
EPA (RCRA) Address: MEEKER AVE & FROST ST BROOKLYN, NY 11211

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / FROST ST
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:

Contact Name: FRANKLIN MURRAY Source Type: Annual/Biennial Report update with Notification Contact Phone: 212−460−2808 Contact Info Date: 02/21/2008
Contact Name: DANIEL PONTECORVO Source Type: Emergency Contact Phone: 212−580−8383 Contact Info Date: 03/14/2008
Contact Name: DANIEL PONTECORVO Source Type: Implementer Contact Phone: 212−580−8383 Contact Info Date: 03/15/2008

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B002	Petroleum oil or other liquid containing 50 ppm < PCBs < 500 ppm	1794	KILOGRAMS	GENERATED	2007		

Map Identification Number 239 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004185401**
NYSDEC Address: MEEKER AVE & FROST ST − MH64805 BROOKLYN, NY 11202 TT−Id: 740A−0067−855

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / FROST ST
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		100	KILOGRAMS	GENERATED	2009		
D008	Lead						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						
D006	Cadmium						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						

Map Identification Number 240 **NYSDEC Name:** **NYCDEP** **Facility Id: NYP000954487**
NYSDEC Address: 75 FROST ST BROOKLYN, NY TT−Id: 740A−0013−532

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 592 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D001	Solid waste that exhibits the characteristic of ignitability	1240	POUNDS	GENERATED	2003		
D002	Solid waste that exhibits the characteristic of corrosivity	40	POUNDS	GENERATED	2003		

Map Identification Number 241 **NYSDEC Name:** **NYCDEP** **Facility Id: NYP003600826**
NYSDEC Address: 75 FROST ST BROOKLYN, NY TT−Id: 740A−0013−534

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 592 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D002	Solid waste that exhibits the characteristic of corrosivity	50	POUNDS	GENERATED	1999		

NO CHEMICAL STORAGE FACILITIES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

NO HISTORIC UTILITY SITES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

HAZARDOUS SUBSTANCE WASTE DISPOSAL SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 242 **CITY BARREL** **Site Number Id:** **Registry Id: N**
421 MEEKER STREET BROOKLYN, NY 11222 TT−Id: 840A−0000−409

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 188 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

****

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Hazardous Waste Remediation
Hazardous Substance Waste Disposal Site Study

Inventory Status: Removed from the Hazardous Substance Inventory
Reason site did not qualify for the Inventory:
No evidence of disposal

SITE INFORMATION

Site Name: CITY BARREL
Site Street: 421 MEEKER STREET
Site City: BROOKLYN
Site Zip: 11222
Region: 2

Site Number:
Registry: No
Registry Site ID: None
RCRA: Unknown
EPA ID: NYD068298835

US EPA No Further Remedial Action Planned? Unknown

Site Code: 1
Description: INDUSTRIAL SITE

Acres: 0.00
Completed Investigation? PA
Is Site Active: Unknown
Years of Operation: 1940 to Unknown

Quadrangle: Unknown
HRS Score: Unknown
HRS Date: Unknown

Site Description:

Storage site for reconditioned drums.

Owner:	Private	Operator:	SAME
Owner Name:	HARRY GOLDSTEIN	Operator Name:	Unknown
Owner Street:	421 MEEKER ST.	Operator Street:	Unknown
Owner City/ZIP/State:	BROOKLYN, NY 11222	Operator City/ZIP/State:	
Owner Telephone:	(212)388-9227	Operator Telephone:	Unknown

SITE IMPACT DATA

Affected Media:

		Hazardous Substance Exposed?	Unknown
Contamination of...		Controlled Site Access?	Unknown
...Surface Water?	No	Ambient Air Contamination?	Unknown
...Groundwater?	No	Threat of Direct Contact?	Unknown
...Drinking Water?	No	Documented Fish or Wildlife Mortality?	No
Surface Water Class:	Unknown	Impact on Special Status Fish or Wildlife Resource?	No
Groundwater Class:	Unknown	Active Drinking Water Supply?	Unknown

Descriptions:

Surface Water:	None provided
Groundwater:	None provided
Drinking Water:	None provided
Fish or Wildlife Mortality:	None provided
Special Status Fish or Wildlife Resource:	None provided
Building:	None provided

THREAT TO THE ENVIRONMENT OR PUBLIC HEALTH

Threat to the Environment or the Public Health: None

Threat Posed by Disposed Hazardous Substance:
The drums in storage have been reconditioned by another company before being brought on site.

HAZARDOUS SUBSTANCES DISPOSED:

VOCs: No Semi-VOCs: No PCBs: No Pesticides: No Metals: No Asbestos: No

Hazardous Substances Disposed:
There is no history of hazardous wastes on site.

SELECTED ANALYTICAL INFORMATION:

Samples Collected:
None

Air:	None provided
Surface Water:	None provided
Surface Soil:	None provided
Waste:	None provided
EPToxicity:	None provided
Groundwater:	None provided
Sediment:	None provided
Subsurface Soil:	None provided
Leachate:	None provided
TCLP:	None provided

AGENCY INFORMATION:

Regulatory Agencies Involved:
NYSDEC NYSDOH

Preparer:
Julie Welch NYSDEC, Intern, RPI Env.Eng.Tech. 1 February 14, 1994

NO TOXIC AIR, LAND AND WATER RELEASES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

NO WASTEWATER DISCHARGES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

AIR DISCHARGE FACILITIES IDENTIFIED WITHIN THE 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 243 **ELLI WOODWORKING INDUSTRIES** **Facility Id: 36047P0003** **State−county CDS Id: 36047P0003**
121−125 NEWTON STREET BROOKLYN, NY 11222 State−county NED id:
TT−ID: 900A−0002−332

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 595 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

CDS−ID: P0003 NED−ID: None Given EPA−ID: None Given FINDS−ID: None Given
Plant Phone #1: None Given Plant Phone #2: None Given
Operating Status: OPERATING
EPA Classification:
State Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
EPA Plant Compliance Status:
State Plant Compliance Status: IN VIOLATION WITH REGARD TO BOTH EMISSIONS AND PROCEDURAL COMPLIANCE

AIR PROGRAM INFORMATION
Regulatory Air Program: SIP SOURCE Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: VOLATILE ORGANIC COMPOUNDS
State Pollutant Compliance for this pollutant: IN VIOLATION WITH REGARD TO BOTH EMISSIONS AND PROCEDURAL COMPLIANCE

CIVIL & ADMINISTRATIVE ENFORCEMENT DOCKET FACILITIES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 244 **NYC BD OF ED − JUNIOR HIGH SCH** **Facility Id: NY0000379990**
424 LEONARD STREET BROOKLYN, NY 11222 TT−Id: 920A−0000−310

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 368 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

==========
CIVIL ENFORCEMENT DOCKET CASE INFORMATION
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DOCKET CASE #	COURT DOCKET NUMBER	DATE FILED	DATE CONCLUDED	JUDICIAL DISTRICT	CASE NAME
02−1994−0052	98 CIV 5095 (SHS)	07−21−1998	07−20−1999	SDNY	NEW YORK CITY SCHOOL CONSTRUCT

DEFENDANT NAME(S): ADMIRAL ABATEMENT
ASBESTOS PRO'S, INC.
CERTIFIED ASBESTOS CORP.
CST ENVIRONMENTAL, INC.
EWT CONTRACTING, INC.
KISS CONSTRUCTION
NATIONAL ENVIRONMENTAL SAFETY COMP., INC
NEW YORK CITY SCHOOL CONTRUCTION AUTH
TRIO ASBESTOS REMOVAL CORPORATION

LAW(S) VIOLATED
Clean Air Act − Section 112
Clean Air Act − Section 113

DISPOSITION OF CASE
Consent instrument with penalty

FEDERAL PENALTY ASSESSED
175000

COST RECOVERY AWARDED

TYPE OF VIOLATION(S)
Asbestos Requirement Violation (CAA)

National Emission Standard for Hazardous Air Pollutant

TYPE OF POLLUTANT(S)
ASBESTOS

NYC ENVIRONMENTAL QUALITY REVIEW REQUIREMENTS − "E" DESIGNATION SITES IDENTIFIED WITHIN 250 FT SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 245 **BLOCK: 2723 LOT: 30** **TT−Id: 820A−0001−877**
415 MANHATTAN AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0030	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Air Quality − Operable Window Limitations Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 246 **BLOCK: 2723 LOT: 29** **TT−Id: 820A−0001−876**
417 MANHATTAN AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 26 feet to the NW*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0029	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Air Quality − Operable Window Limitations Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 247 **BLOCK: 2723 LOT: 33** **TT−Id: 820A−0001−878**
391 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 87 feet to the S*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0033	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Air Quality − Operable Window Limitations Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 248 **BLOCK: 2723 LOT: 36** **TT−Id: 820A−0001−879**
113 RICHARDSON STREET

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 104 feet to the SW*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0036	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Air Quality − Operable Window Limitations Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 249 **BLOCK: 2723 LOT: 37** **TT−Id: 820A−0001−880**
111 RICHARDSON STREET

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 123 feet to the SW*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0037	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 250 **BLOCK: 2724 LOT: 1** **TT−Id: 820A−0001−882**
411 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 125 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0001	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 251 **BLOCK: 2724 LOT: 37** **TT−Id: 820A−0001−891**
417 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 152 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0037	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 252 **BLOCK: 2724 LOT: 7** **TT−Id: 820A−0001−883**
430 MANHATTAN AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 180 feet to the NNE*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0007	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 253 **BLOCK: 2724 LOT: 34** **TT−Id: 820A−0001−890**
419 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 191 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0034	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 254 **BLOCK: 2723 LOT: 38** **TT−Id: 820A−0001−881**
101 RICHARDSON STREET

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 202 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0038	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 255 **BLOCK: 2724 LOT: 10** **TT−Id: 820A−0001−884**
130 BAYARD STREET

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 217 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0010	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 256 **BLOCK: 2724 LOT: 33** **TT−Id: 820A−0001−889**
MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 221 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0033	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 257 **BLOCK: 2724 LOT: 31** **TT−Id: 820A−0001−888**
433 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 247 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0031	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

U.S. EPA EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) SPILLS
AT THE LOCATION OR POTENTIALLY AT THE LOCATION OF
415 Manhattan Avenue
Brooklyn, NY 11222

* Any ERNS Spills listed below are NOT mapped in this report *

ONSITE ERNS (A count of these spills can be found in the distance interval table):
THIS SITE IS NOT FOUND IN THE ERNS DATABASE

POTENTIALLY ONSITE ERNS:
THIS SITE IS NOT FOUND IN THE ERNS DATABASE

Copyright 2013 Toxics Targeting, Inc. February 27, 2013 '415 Manhattan Avenue'

Unmappable facilities for 'Kings' County

NPL/CERCLIS/NYSDEC Inactive Haz. Waste or Reg. Qual. Sites

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NYD980531628	WILLIAM HARVEY CORP	UNKNOWN	BROOKLYN	UNKNOWN
NYD980532014	BKLYN UNION GAS /GREENPOINT ENERGY FACIL	287 MASPETH AVE	BROOKLYN	UNKNOWN
NYD980532030	BKLYN UNION GAS /WILLIAMSBURGH WORKS	KENT AVE N 12TH ST /E RIV	BROOKLYN	11211
NYD980532220	BKLYN UNION GAS /MASPETH GATE STA	285 MASPETH AVE	BROOKLYN	UNKNOWN
NYD980532261	BKLYN UNION GAS/VARICK GATE STATION	438 VARICK AVE	BROOKLYN	UNKNOWN
NYD987015245	NEWTOWN CREEK SOLVENT DRUM	NEWTOWN CREEK	QUEENS	UNKNOWN

Solid Waste Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
24D05	EMPIRE MILL DEMO			UNKNOWN
24D07	RED HOOK CONTAINER DEMO			UNKNOWN
24M01	ASHMONT METALS RES.REC.			UNKNOWN
24T55	CARDELLA TRUCKING			UNKNOWN
24T75	ROBERT BOLOGNA WCTB INC.			UNKNOWN
24TA8	U.S. COAST LINE, INC.			UNKNOWN
24TB3	J. WISE EXCAVATING			UNKNOWN
24Y81	NYCDPR YARD WASTE COMPOST			UNKNOWN

Hazardous Spills − MISC. SPILL CAUSES − Active

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
1209744	BROOKLYN BATTERY TUNNEL	BROOKLYN BATTERY TUNNEL		UNKNOWN
9113333	MCGUINNESS BVD/LEONARD ST	MCGUINNESS BVD/LEONARD ST	BROOKLYN	UNKNOWN
1214948	SUB STATION TRANSFORMER	776 886 ST	BROOKLYN	UNKNOWN
1211499	BASEMENT	36 PARGETHE STREET	BROOKLYN	UNKNOWN
1209854	MONTAQUE RAIL STATION IN TUBE	MONTAQUE RAIL STATION IN TUBE	BROOKLYN	UNKNOWN
1209775	BROOKLYN	ALL STREETS	BROOKLYN	UNKNOWN
1111782	LORIMER ST STATION	LORIMER ST STATION	BROOKLYN	UNKNOWN
0612595	PORT AUTHORITY −BUILDING #111	FOOT OF HAMILTON AVE	BROOKLYN	UNKNOWN
0308367	AGUANA SUBSTATION	104−27 STREET	BROOKLYN	UNKNOWN
0004685	EXXON GAS STATION	NORTH HENRY STREET	BROOKLYN	11222

Hazardous Spills − TANK FAILURES − Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
8607075				UNKNOWN
9510983	1848 STEWART ST	1848 STEWART ST	BROOKLYN	UNKNOWN
9313502	1782 GLEASON AVE	1782 GLEASON AVE	BROOKLYN	UNKNOWN
9209000	1621 EAST KENT STREET	1621 EAST KENT STREET	BROOKLYN	UNKNOWN
9109440	HOBBY SHOP GARAGE/US NAVY	HOBBY SHOP GARAGE	BROOKLYN	UNKNOWN

Hazardous Spills − TANK TEST FAILURES − Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
0605577	MERIDIAN PROPERTIES	101 LINCOLN BLVD	BROOKLYN	UNKNOWN
8806571	CLOSED−LACKOF RECENT INFO	ADMINISTRATION BLDG	NYC	UNKNOWN

Hazardous Spills − UNKNOWN CAUSE OR OTHER CAUSES − Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9213773				UNKNOWN
8603146				UNKNOWN
0700460	IN FRONT OF BJ'S IN ROADW	339 GATEWAY STREET	BRONX	UNKNOWN
0209904	VARIOUS DEP −BWSO SITES	MISC.	BRONX/QUEENS/MANHATTAN	UNKNOWN
9912359	BOX 20341	715 PAHALEY ST	BROOKLYN	UNKNOWN
9909853	MANHOLE 4932	UNION AV	BROOKLYN	UNKNOWN
9908069	MANHOLE #4835	9TH ST & ROEBLING ST	BROOKLYN	11211

9907077	MANHOLE 58390	NECKING LAND AVE	BROOKLYN	UNKNOWN
9901648	MANHOLE 15165	MANHATTEN AVENUE	BROOKLYN	UNKNOWN
9901523	BROWNING FERRIS INDUSTRIE	115 CANGNEF STREET ?	BROOKLYN	UNKNOWN
9900252	MANHOLE #43243	WEST SIDE UNION AVE	BROOKLYN	UNKNOWN
9815288	MANHOLE 14244	29-39 HAYWOOD ST	BROOKLYN	UNKNOWN
9813982	SERVICE BOX 49009	SERVICE BOX 49009	BROOKLYN	UNKNOWN
9812720		2929 BAINBRIDGE AVE	BROOKLYN	UNKNOWN
9810573		MARINE COMPANY 6	BROOKLYN	UNKNOWN
9801951	432 DRAKES AVE CORP	432 DRAKES AVE	BROOKLYN	UNKNOWN
9709098	MEEKER AVE	MEEKER AVE	BROOKLYN	UNKNOWN
9503484	BQE - SOUTH LIE BRIDGE	BROOKLYN QUEENS EXPRESSWAY - SOUTH LIE B	BROOKLYN	UNKNOWN
9412310	217 HYLAND ST	217 HYLAND ST	BROOKLYN	UNKNOWN
9404558	NYC DOT- B'KLYN NAVY YARD	NYC DOT-B'KLYN NAVY YARD	BROOKLYN	UNKNOWN
9312482	NAVESINK RIVER CHANNEL #7	NAVESINK RIVER CHANNEL #7	BROOKLYN	UNKNOWN
9306596	BET.N. 13TH TO N. 6TH	BET.N. 13TH TO N. 6TH	BROOKLYN	11211
9306347	WHITE AVE - BLDG 114	WHITE AVE - BLDG 114	BROOKLYN	UNKNOWN
9305573	VARIOUS LOTS IN BROOKLYN	VARIOUS LOTS IN BROOKLYN	BROOKLYN	UNKNOWN
9214290	1200 NECK ROAD	1200 NECK ROAD	BROOKLYN	UNKNOWN
9210843	UNK	UNKNOWN	BROOKLYN	UNKNOWN
9007166	FORREST ST & DIVISION PL	FORREST ST & DIVISION PL	BROOKLYN	UNKNOWN
9004558	GUID AVE BRIDGE/BKLYN	GUID AVE BRIDGE	BROOKLYN	UNKNOWN
8906523	MCGUINNSS BLVD/BKLYN	MCGUINNESS BLVD	BROOKLYN	11222
8901311	METROPOLITAN AV STOP/BKLY	METROPOLITAN AVE STOP	BROOKLYN	UNKNOWN
8704318			BROOKLYN	UNKNOWN
8504687	BROOKLYN	BROOKLYN	BROOKLYN	UNKNOWN
8503785	BROOKLYN	BROOKLYN	BROOKLYN	UNKNOWN
8503558	BROOKLYN	BROOKLYN	BROOKLYN	UNKNOWN
8503309	SUNOCO BROOKLYN	BROOKLYN	BROOKLYN	UNKNOWN
8503172	BROOKLYN, KINGS	BROOKLYN, KINGS	BROOKLYN	UNKNOWN
8502862	GAS COMPANY	GAS COMPANY	BROOKLYN	UNKNOWN
8100041	SUBWAY-NYC	SUBWAY-NYC	BROOKLYN	UNKNOWN
7900928			BROOKLYN	UNKNOWN
7800995	UNKNOWN	MEEKER AVENUE	BROOKLYN	UNKNOWN
1103986	ON WATER	OFF GARRISON BEACH	BROOKLYN	UNKNOWN
1010737	SHEEN ON WATER	NEW TOWN CREEK	BROOKLYN	UNKNOWN
0805122	MANHOLE 72	ROEBLING STREET	BROOKLYN	UNKNOWN
0803914	LAFARGE CEMENT CO	UNKNOWN	BROOKLYN	UNKNOWN
0711377	3424 CLINTON ROAD	3424 CLINTON ROAD	BROOKLYN	UNKNOWN
0604221	BQE	EXIT 31 WEST BOUND	BROOKLYN	11211
0410681	TRANDFORMER VAULT #TM993	SUMNER AVE. AND DEKALB	BROOKLYN	UNKNOWN
0410369	RESIDENCE	57 BRAND STREET	BROOKLYN	UNKNOWN
0405797	VAULT #VS-7930	3411 JUIEER AVE	BROOKLYN	UNKNOWN
0405795	MANHOLE #12085	SW CORNER BEERY ST	BROOKLYN	UNKNOWN
0405023	VAULT # 3182	DEBEVOIST PLACE/LAFAYETTE	BROOKLYN	UNKNOWN
0313862	MAN HOLE #70603	MANHATTAN AVE & MESEROLE	BROOKLYN	UNKNOWN
0312773	SUBWAY SYSTEM-A LINE	TRACK A-3- COLUMN 792	BROOKLYN	UNKNOWN
0310941	MANHOLE 32221 FRONT OF	298 HAWKSIDE AVE	BROOKLYN	UNKNOWN
0211077	ALL OVER BROOKLYN	ALL OVER BROOKLYN	BROOKLYN	UNKNOWN
0210905	TM 70	METROPOLITAN AVE	BROOKLYN	11211
0106512	MANHOLE 64801	BROOKLYN QUEENS EXPRESSWAY	BROOKLYN	UNKNOWN
0104614	ON CORNER	GREENWICH ST/BUSHWICK AVE	BROOKLYN	UNKNOWN
0002339	MANHOLE 59642	BEDFORD AVE & EAST STREET	BROOKLYN	UNKNOWN
0313895		BARRICK ST S OF HARRISON	GREEN POINT	UNKNOWN
9904431		FLUSHING/QUARTER AVE	MANHATTAN	UNKNOWN
0913993	215348; BEDFORD AVENUE AND E 120TH STREET	BEDFORD AVENUE AND E 120TH STREET	NEW YORK	UNKNOWN
0814568	214383; BERRY ST AND 9TH ST	BERRY ST AND 9TH ST	NEW YORK	11211
0814253	212280; MCGUINESS BLVD.	MCGUINESS BLVD.	NEW YORK	11222
9103671	145 UNEDON ROAD/BKLYN	145 UNEDON ROAD	NEW YORK CITY	UNKNOWN
8900096	MANHATTAN AVE/BROOKLYN	MANHATTAN AVENUE	NEW YORK CITY	11222
8805083	1 DECIMAL ST/GREENPOINT	1 DECIMAL ST/GREENPOINT	NEW YORK CITY	11222

9206476	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
8504666	UNK	UNKNOWN	UNKNOWN	UNKNOWN

Hazardous Spills – MISC. SPILL CAUSES – Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9416745	GREENPOINT BROOKLYN	AMOCO TERMINAL TO STAGG		UNKNOWN
9404620	BROOKLYN EXPWY	UNDER B‘KLYN EXPWY	BRONX	UNKNOWN
1006871	COMMERCE PUMP STATION	COMMERCE RD	BRONX	UNKNOWN
0912126	FRIEDMAN RESIDENCE	252 CALHOUN AVE	BRONX	11211
1111553	CONSTRUCTION SITE – NO ADDRESS	TARGET BASIN CHANNEL – ALONG BELL PARKWA	BROOKLY	UNKNOWN
9914811	POLE #18923	MANOR RD/HOLLYWOOD AVE	BROOKLYN	UNKNOWN
9907586	VAULT 2488	45 DEBEVOISE PLACE	BROOKLYN	UNKNOWN
9902625	RUSSEL STREET	RUSSELL STREET	BROOKLYN	11222
9710120	NEWTON CREEK REG #B7	METROPOLITAN AV	BROOKLYN	UNKNOWN
9602674	CROSS HARBOR	BOX 182	BROOKLYN	UNKNOWN
9510467	DRIVER SERVICES CO	172 CARSON AVE	BROOKLYN	UNKNOWN
9510464	MANHOLE 64643	NORTH HENRY STREET	BROOKLYN	11222
9508762	PERGAMENT STORES	57 65TH AVE	BROOKLYN	UNKNOWN
9505873	METROPOLITAN AVENUE	METROPOLITAN AVENUE	BROOKLYN	11211
9505269	N. ELEANOR PL/WILLIAMBURG	MANHOLE #55915/ELEANOR PL	BROOKLYN	UNKNOWN
9409670	531 144TH STREET	531 144TH STREET	BROOKLYN	UNKNOWN
9314528	55 FULTON ST.	55 FULTON ST	BROOKLYN	UNKNOWN
9308950	JAMAICA REGULATOR #3	JAMAICA REGULATOR #3	BROOKLYN	UNKNOWN
9307635	KINGSLAND AVENUE	KINGSLAND AVENUE	BROOKLYN	UNKNOWN
9307209	HILLARY STREET	HILLARY STREET	BROOKLYN	UNKNOWN
9304944	1604 LOTS 28 & 37–44 PLUS	1604 LOTS 28 & 37–44 PLUS	BROOKLYN	UNKNOWN
9213983	1149 SLAVEY AVENUE	1149 SLAVEY AVENUE	BROOKLYN	UNKNOWN
9210698	2110 BOLTON STREET	2110 BOLTON STREET	BROOKLYN	UNKNOWN
9207289	LYNROCK NURSING HOME	LYNROCK NURSING HOME	BROOKLYN	UNKNOWN
9205306	909 AVE G	909 AVE G	BROOKLYN	UNKNOWN
9203867	280 ELDRIDGE ST	280 ELDRIDGE ST	BROOKLYN	UNKNOWN
9201537	241 N MAIN ST/TOP SHELF	241 N MAIN ST/TOP SHELF	BROOKLYN	UNKNOWN
8607666	CHEVRON STATION / BROOKLY	CHEVRON/DRUM	BROOKLYN	UNKNOWN
8606856			BROOKLYN	UNKNOWN
8603569	WILLIAMSBURG	WILLIAMSBURG	BROOKLYN	UNKNOWN
8601448	A DRIVE IN THE E. RIVER	400 YDS SOUTH NEWTOWN CK	BROOKLYN	11222
1207169	STREET	WHIKOSS AVE	BROOKLYN	UNKNOWN
1204507	GENERATOR LEAK AND FIRE (US POWER GEN)	1 WHALE COURT	BROOKLYN	UNKNOWN
1201439	BROOKLYN CRUISE TERMINAL	BROOKLYN CRUISE TERMINAL	BROOKLYN	UNKNOWN
1200646	HESS TERMINAL	CORTEZ RD AND CLAYTON ST	BROOKLYN	UNKNOWN
1113411	PORT NY/NJ	PORT	BROOKLYN	UNKNOWN
1103584	IN FRONT OF	184 BRIGGS AVE	BROOKLYN	UNKNOWN
1101447	POLE # 62699	2715 ROUND ST	BROOKLYN	UNKNOWN
1012925	ROADWAY	WASHINGTON PLAZA	BROOKLYN	UNKNOWN
1009644	ROADWAY	WASHINGTON PLAZA	BROOKLYN	UNKNOWN
1009174	222112; AINSLEY ST	AINSLEY ST	BROOKLYN	11211
1009088	221422; S NY AVE	S NY AVE	BROOKLYN	UNKNOWN
1008141	GOWANUS BAY/US POWER GEN	420 AND 2END AVE	BROOKLYN	UNKNOWN
1006504	NYCT LUBRICATING OIL SPILL	BROOKLYN AVE & E 71ST ST	BROOKLYN	UNKNOWN
1005877	UNDERGROUND TRANSFORMER VAULT #2705	49–59 DEBEVOISE PLACE	BROOKLYN	UNKNOWN
1005512	NEWTOWN CREEK–BUCKEYE PIPE	ACROSS FROM THE BUCKEYE	BROOKLYN	UNKNOWN
1002941	ON ROADWAY	ON BQE BETWEEN	BROOKLYN	UNKNOWN
0914424	218248; YORK STREET AND GREEN LANE	YORK STREET AND GREEN LANE	BROOKLYN	UNKNOWN
0912508	REGULATOR OH–6	BROOKLYN ARMY TERMINAL	BROOKLYN	UNKNOWN
0808967	DRUM RUN	RYERSON AVE	BROOKLYN	UNKNOWN
0807442	BROOKLYN CRUISE TERMINAL	1 CRUIZE WAY	BROOKLYN	UNKNOWN
0806633	NYCT BUS	AVE J AND FULTON ST	BROOKLYN	UNKNOWN
0805706	MANHOLE #724	YORK ST/ GREEN LANE	BROOKLYN	UNKNOWN
0804294	NYCDEP FACILITY	NEWTOWN CREEK	BROOKLYN	UNKNOWN
0712922	BREE AVE AND BRIGGS AVE	BREE AVE AND BRIGGS AVE	BROOKLYN	UNKNOWN

0712067	11 ST CONDUIT TUNNEL O/W SEPERATOR	11 & BERGEN. ASH ST & MCGUINESS	BROOKLYN	UNKNOWN
0706451	ONE PINT FROM AERIAL XFMR ON POLE	IN FRONT OF 230-50 EDGEWOOD AVE	BROOKLYN	UNKNOWN
0702015	ATLANTIC SUBWAY	ATLANTIC/PACIFIC	BROOKLYN	UNKNOWN
0701967	SPRAGUE ENERGY TRUCK	2449 HALLWAY AVE	BROOKLYN	UNKNOWN
0701086	FORMER BUS YARD	CARLTON AVE	BROOKLYN	UNKNOWN
0701011	IN THE STREET	KENTH AVE	BROOKLYN	UNKNOWN
0611241	HESS TERMINAL	PORT STREET	BROOKLYN	UNKNOWN
0610884	PARKING LOT	909 PROMOTIONAL DEV. IND	BROOKLYN	UNKNOWN
0607043	DEP FACILITY	WEST SIDE OF DIGESTER BUI	BROOKLYN	UNKNOWN
0606084	UNKNOWN	UNKNOWN	BROOKLYN	UNKNOWN
0602892	MANHOLE#67572	BERGEN ST & CRESENT AVE	BROOKLYN	UNKNOWN
0600561	EXIT 34	ROUTE 278 SOUTHBOUND	BROOKLYN	11222
0508865	GOWANAS EXPRESSWAY	MEDIAN MILE 3RD/6TH EXIT	BROOKLYN	UNKNOWN
0503928	MANHOLE 23700	PALISADES AVE	BROOKLYN	UNKNOWN
0406210	MANHOLE #4443	FRONT OF KINGS LAND AVE	BROOKLYN	UNKNOWN
0307966		QUEENS CO. HOSPITAL	BROOKLYN	UNKNOWN
0301260	ON NEWTOWN CREEK	1 MILE FROM MANHATTAN AVE	BROOKLYN	UNKNOWN
0211699	IN THE 11ST ST CONDUT	BROOKLYN SIDE OF TUNNEL	BROOKLYN	UNKNOWN
0210902	RESIDENTS	2526 HERBERT STREET	BROOKLYN	11222
0207970	OPPOSITE	1630 SEMARKS AVE	BROOKLYN	UNKNOWN
0104610	CORONA YARD	UNKNOWN	BROOKLYN	UNKNOWN
0010826	MANHOLE #13119	S/O MASPETH AV	BROOKLYN	11211
9416392	WILLIAMSBURG AVE	WILLIAMSBURG AVENUE	GREENPOINT	11211
0814187	211097; NASSAU ST AND NASSAU PL	NASSAU ST AND NASSAU PL	NEW YORK	UNKNOWN
8902723	BROOKLYN/QUEENS EXPWY	BROOKLYN/QUEENS EXPWY	NEW YORK CITY	UNKNOWN
8810118	BLDG 3 SUB STATION/BKLYN	BLDG 3 SUB STATION	NEW YORK CITY	UNKNOWN
8807156	WILLIAMBURG/KOSCIUSKO	WILLIAMSBURG/KOSCIUSKO	NEW YORK CITY	UNKNOWN
8709143	BKLYN QUEENS EXPWY/BKLYN	BKLYN QUEENS EXRESSWAY	NEW YORK CITY	UNKNOWN
0814069	AMBROSE CHANNEL LOWER BAY	UNK	NEW YORK CITY	UNKNOWN
0705363	FIVE GAL LEAK FROM AERIAL XFMR AT	20-30 MASPETH AVENUE	QUEENS	UNKNOWN

Petroleum Bulk Storage Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
2-237280	1160 REALTY CO	1160 REALTY CO	BROOKLYN	UNKNOWN
2-289442	412 AVENUE E	412 AVENUE E	BROOKLYN	UNKNOWN
NY03182	DEPT OF PARKS		BROOKLYN	UNKNOWN
NY08951	SECO MANAGEMENT	B KLYN NY	BROOKLYN	UNKNOWN

Hazardous Waste Generation or Transport Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NYP004021192	CONSOLIDTED EDISON CO	#46211 103 LEONARD		UNKNOWN
NYP004022265	CONSOLIDATED EDISON CO	MH71504 MCGUINNESS & INDEP ST		UNKNOWN
NYP004023107	CONSOLIDATED EDISON CO	RODNEY & 40 PL		UNKNOWN
NYP004026936	CONSOLIDATED EDISON CO	V4798 GRAND & CLINTON		UNKNOWN
NYD982791675	MEEKER AVENUE TASK FORCE	MEEKER AVE	BROOKLYN	UNKNOWN
NYD986961571	NYSDOT	MEEKER AVE	BROOKLYN	UNKNOWN
NYD986973691	NYSDOT - CONTRACT BRC253A	60 BROADWAY 7TH FL	BROOKLYN	11211
NYN200000070	WEST 135TH ST MARINE TRANSFER STATION	WEST 135TH ST & NEWTOWN CREEK	BROOKLYN	UNKNOWN
NYP000788471	USEPA	ERRD	BROOKLYN	UNKNOWN
NYP000927988	CONSOLIDATED EDISON	LEONARDA STREET	BROOKLYN	UNKNOWN
NYP000928275	CONSOLIDATED EDISON	875 KAGERS AVE	BROOKLYN	UNKNOWN
NYP000928846	CONSOLIDATED EDISON	MH 64217-BROOKLYN GRAND	BROOKLYN	UNKNOWN
NYP000929257	CONSOLIDATED EDISON	5 MARKS ST	BROOKLYN	UNKNOWN
NYP000930156	CON ED - MH1115	E/S LEE AVE	BROOKLYN	11211
NYP003660081	NYCDEP	BQE WEST	BROOKLYN	UNKNOWN
NYP004057972	CONSOLIDATED EDISON	MH21248	BROOKLYN	UNKNOWN
NYP004059010	CONSOLIDATED EIDSON	N/S	BROOKLYN	UNKNOWN
NYP004070264	CONSOLIDATED EDISON	MH12645	BROOKLYN	UNKNOWN
NYP004074357	CONSOLIDATED EDISON	MH61205	BROOKLYN	UNKNOWN
NYP004076185	CONSOLIDATED EDISON	MH7746	BROOKLYN	UNKNOWN

NYP004082954	CONSOLIDATED EDISON		40313 FULTON ST & GLASSOW ST	BROOKLYN	UNKNOWN
NYP004136180	CONSOLIDATED EDISON		MH24778-E21ST CONCLAVE I	BROOKLYN	UNKNOWN
NYP004138608	CONSOLIDATED EDISON		S/E/C WILLOUGHBY LANE	BROOKLYN	UNKNOWN
NYP004183331	CONSOLIDATED EDISON MH42983		MH42983 323 TANAKING AVE	BROOKLYN	UNKNOWN
NYP004192154	CONSOLIDATED EDISON MH27077		MH27077	BROOKLYN	UNKNOWN
NYP004194494	CONSOLIDATED EDISON MH44254		MH44254 PARK AVE & SACKMAN ST	BROOKLYN	UNKNOWN
NYP004194890	CONSOLIDATED EDISON MH58388		HEGEMAN AVE & HERZL AVE	BROOKLYN	UNKNOWN
NYP004195525	CONSOLIDATED EDISON		CYPRESS AVE & STATE ST.	BROOKLYN	UNKNOWN
NYP004198099	CONSOLIDATED EDISON		F/O 1802 & 1809 AVE & 618 ST	BROOKLYN	UNKNOWN
NYP004279865	CON EDISON		SW COR SHORE PKWY & BAY LN	BROOKLYN	UNKNOWN
NYR000091413	NYSDOT CONTRACT D258425		BQE CONNECTOR RAMP TO	BROOKLYN	UNKNOWN
NYR000102681	ARLON ENTERPRISES LLC		927 ARLON PL	BROOKLYN	11211
NYR000140855	DLX INDUSTRIES		1970 INDUSTRIAL PARK ROAD	BROOKLYN	UNKNOWN
NY0000010363	NYCDOT		N/S	N/S	UNKNOWN
NYR000067843	NEW YORK CITY DEPT PARKS & RECREATION		11 ROSENGREV AVE	N/S	UNKNOWN
NYD986973691	NYCDOT		WILLIAMSBURG	NEW YORK	UNKNOWN
NYD987005980	NYCDOT		WILLIAMSBURG	NEW YORK	11211
NYP000956961	VERIZON NEW YORK INC MANHOLE		LEANORD AVE	NEW YORK	UNKNOWN
NYP000958751	VERIZON NEW YORK INC. MANHOLE		MEEKER AVENUE	NEW YORK	UNKNOWN
NYP000958777	VERIZON NEW YORK INC. MANHOLE		MEEKER AVENUE	NEW YORK	UNKNOWN
NYP000960666	VERIZON NEW YORK INC.		N/E FOURTH ST MANHOLE MANHOLE	NEW YORK	UNKNOWN
NYP004040804	CONSOLIDATED EDISON		V3711-UNION ST	NEW YORK	UNKNOWN
NYP004043659	CONSOLIDATED EDISON		V52488-45 DEBEVOISE PL	NEW YORK	UNKNOWN
NYP004049482	CONSOLIDATED EDISON		4 IRVING PLACE RM 300	NEW YORK	UNKNOWN
NYP004054946	CONSOLIDATED EDISON		V5971-LEXINGTON AVE	NEW YORK	UNKNOWN
NYP004120424	CONSOLIDATED EDISON		TM2403-N/S MESSERLE E/O 73RD	NEW YORK	UNKNOWN
NYP004141438	CONSOLIDATED EDISON		4 IRIVNG PL RM 828	NEW YORK	UNKNOWN
NYP000930925	CONSOLIDATED EDISON CO		V3032-1965 LAFAYETTE	QUEENS	UNKNOWN
NYP004006672	CONSOLIDATED EDISON		V3487 - NEWELL AVE	QUEENS	UNKNOWN
NYP004015590	CONSOLIDATED EDISON		V 2720 - N 6TH & ROOSEVELT SQ	QUEENS	11211
NYP004016242	CONSOLIDATED EDISON		V9379-32 HARRISON	QUEENS	UNKNOWN
NYP004045456	CONSOLIDATED EDISON		V2488-45 DEBEVOISE PL	QUEENS	UNKNOWN

Wastewater Discharges

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NYU200022	NYCDEP OMNIBUS IV ORDER			UNKNOWN
NYU900073	NEW YORK CITY TRANSIT AUTH.			UNKNOWN

Air Releases

FACILITY ID	FACILITY NAME		STREET	CITY	ZIP
3604700161	MOT/ARMY		NO STREET ADDRESS	BROOKLYN	UNKNOWN
NY047X4UE	SUPERIOR FIBRES INC	KINGS (B	NO STREET ADDRESS	NO CITY NAME	UNKNOWN
NY047XAXP	SHARMONT REALTY	KINGS (B	NO STREET ADDRESS	NO CITY NAME	UNKNOWN

Hazardous waste codes presented in individual Toxic Information Profiles are defined below.

B002 Petroleum oil or other liquid containing 50 ppm or greater of PCBs but less than 500 ppm PCBs. This includes oil from electrical equipment whose PCB concentration is unknown, except for circuit breakers, reclosers and cable.

B007 Other PCB Wastes including contaminated soil, solids, sludges, clothing, rags, and dredge material.

D001 Solid waste that exhibits the characteristic of ignitability, but is not listed under any other hazardous waste code.

D002 Solid waste that exhibits the characteristic of corrosivity, but is not listed under any other hazardous waste code.

D003 Solid waste that exhibits the characteristic of reactivity, but is not listed under any other hazardous waste code.

D005 Barium

D007 Chromium

D008 Lead

D009 Mercury

P075 Pyridine, 3−(1−methyl−2−pyrrolidinyl)−, (S)−, & salts

Source: U. S. Environmental Protection Agency

How Toxic Site Locations Are Mapped

Toxics Targeting maps toxic site locations on a digital version of the U. S. Census map or those used by local authorities using addresses and map coordinates provided by site owners/operators or government agencies. In order to allow site locations to be verified independently, the information used to map each site is presented in the first section of each Toxic Site Profile, along with a description of the mapping technique used and any address corrections that were made in order to locate toxic sites with incomplete or inadequate site location information. The mapping process is explained below.

Map Identification Number: 12

Site Name: Acme World Manufacturing, Inc.

Site Address: 55 Main Street

Anytown, NY 11797

MAP LOCATION INFORMATION

Site location mapped by:

Address Matching

1) Most toxic sites are mapped by matching addresses provided by site owners/operators or government agencies with locations on a digital version of the street or parcel map. These site locations are identified with the method used to map them.

Note: Some sites have an address match location and a map coordinate location. Both locations are mapped because they can be equally correct.

or Map Coordinate

2) Some toxic sites are located using map coordinates provided by site owners/ operators or government agencies. These site locations are identified "map coordinate." Map coordinates for Toxic Wastewater Discharges, Toxic Release Inventory sites and Major Oil Storage Facilities should be considered suspect.

or Manual Mapping

or Site Visit

3) Incomplete addresses or map coordinates require some site locations to be determined by commercial street maps (manual mapping), site visits, map coordinates from other databases and address location services. Application of any of these methods is identified accordingly.

ADDRESS CHANGE INFORMATION

Revised Street: NO CHANGE

Revised zip code: NO CHANGE

4) Site addresses are sometimes corrected to eliminate obvious errors that prevent sites from being mapped. All address corrections are noted here.

Information Source Guide

Toxics Targeting's Environmental Reports contain government and other information compiled on 21 categories of reported known or potential toxic sites. Each toxic site database is described below with information detailing a) the source of the information, b) the date when each database is covered to and c) when *Toxics Targeting* obtained the information..

1) **National Priority List for Federal Superfund Cleanup:** Toxic sites nominated for cleanup under the Federal Superfund program. Annual compilation of special two-page detailed profiles of NPL sites. Also includes delisted NPL sites.
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency.[1]
Data attributes updated from: 2/1/2013. Data obtained by Toxics Targeting: 2/1/2013.
New Facilities updated through: 2/1/2013. Data obtained by Toxics Targeting: 2/1/2013.

2) **Inactive Hazardous Waste Disposal Site Registry:** New York State database that maintains information and aids decision making regarding the investigation and cleanup of toxic sites. The Registry's data includes two-page profiles noting site name, ID number, description, classification, cleanup status, types of cleanup, owner information, types and quantities of contaminants, and assessment of health and environmental problems. Also included are sites that qualify for possible inclusion on the Registry. These Registry Qualifying sites may or may not be on the Site Registry.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]
Data attributes updated through: 11/28/2012. Data obtained by Toxics Targeting: 11/28/2012.
New Facilities updated to: 11/28/2012. Data obtained by Toxics Targeting: 11/28/2012.

3) **Corrective Action Activity (CORRACTS):** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]
Data attributes updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.
New facilities updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.

4) **CERCLIS:** Toxic sites listed in the Federal Comprehensive Environmental Response, Compensation and Liability Information System. Includes Active and No Further Remedial Action Planned (NFRAP) sites.
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency.[1]
Data attributes updated through: 11/28/2011. Data obtained by Toxics Targeting: 12/21/2011.
New Facilities updated through: 11/28/2011. Data obtained by Toxics Targeting: 12/21/2011.

5) **Brownfield Programs:** NYS programs for sites that are abandoned, idled or under-used industrial and/or commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.
ASTM required.* Source: New York State Department of Environmental Conservation.[2]
Data attributes updated through: 11/28/2012. Data obtained by Toxics Targeting: 11/28/2012.
New Facilities updated to: 11/28/2012. Data obtained by Toxics Targeting: 11/28/2012.

(a) **Brownfield Cleanup Program (BCP)**
(b) **Voluntary Cleanup Program (VCP)**
(c) **Environmental Restoration Program (ERP)**

6) **Solid Waste Facilities:** a compilation of the following 2 databases:
(a) **NYS Solid Waste Registry:** which includes, but is not limited to, landfills, incinerators, transfer stations, recycling centers.
ASTM required.* Fannie Mae required.** Source: New York State Dept. of Environmental Conservation.[2]
Data updated to: 12/31/2001. Data obtained by Toxics Targeting: 3/16/2002.

(b) **1934 Solid Waste Disposal Site in New York City:** which includes sites operated by municipal authorities circa 1934. Source: City of New York Department of Sanitation (1984). The Waste Disposal Problem in New York City: A Proposal For Action.

7) **RCRA Hazardous Waste Treatment, Storage or Disposal Facility Databases:**
(a) **Manifest Information:** New York State database of hazardous waste facilities and shipments regulated by the DEC's Bureau of Hazardous Waste Facility Compliance pursuant to NYS Law and the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

New facilities updated through: 1/17/2013. New facilities obtained by Toxics Targeting: 2/14/2013.
Manifest transactions data updated to: 1/17/2013. Manifest transactions data obtained by Toxics Targeting: 2/14/2013.

(b) **RCRA Notifier & Violations Information:** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]
New facilities updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.
Data attributes updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.

8) **Spills Information Database:** Spills reported to the DEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from Petroleum Bulk Storage Regulations) or 6 NYCRR Section 595.2 (from Chemical Bulk Storage Regulations). This database includes both *active* and *closed* spills.
ASTM required.* Fannie Mae.** Source: NYS Department of Environmental Conservation.[2]

New spills through: 1/29/2013 New spills data obtained by Toxics Targeting: 1/29/2013
Spill attribute data through: 1/29/2013 Spill attribute data obtained by Toxics Targeting: 1/29/2013

Active spills: paperwork not completed. Closed spills: paperwork completed.
Both active and closed spills may or may not have been cleaned up (see Date Cleanup Ceased in spill profiles).

9) **Major Oil Storage Facilities:** NYS database of facilities licensed pursuant to Article 12 of the Navigation Law, 6NYCRR Parts 610 and 17NYCRR Part 30, such as onshore facilities or vessels, with petroleum storage capacities equal to or greater than four hundred thousand gallons. **Tank & other data withheld by NYSDEC as of 4/1/2002**.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

Data updated through: 2/13/2013. Data obtained by Toxics Targeting: 2/13/2013.

10) **Petroleum Bulk Storage Facilities:** a compilation of local and state databases of aboveground and underground petroleum storage tank facilities.

(a) **NYS Petroleum Bulk Storage Database:** This includes all New York State counties except Cortland, Nassau, Rockland, Suffolk, and Westchester. ASTM required.* Fannie Mae required.**
Source: NYS Department of Environmental Conservation.[2]
New facilities updated through: 11/21/2012. Data obtained by Toxics Targeting: 11/21/2012.
Tank data updated through: 2/13/2013. Data obtained by Toxics Targeting: 2/13/2013.

(b) **New York City Fire Department Tank Data:** **Data has been withheld by the NYC Fire Dept.**
Source: New York City Fire Department. Data obtained by Toxics Targeting: 2/18/1997

11) **RCRA Hazardous Waste Generators and/or Transporters Databases:**

(a) **Manifest Information:** New York State database of hazardous waste facilities and shipments regulated by the NYS Department of Environmental Conservation's Bureau of Hazardous Waste Facility Compliance pursuant to New York State Law.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

New facilities updated through: 1/17/2013. New facilities obtained by Toxics Targeting: 2/14/2013.
Manifest transactions data updated to: 1/17/2013. Manifest transactions data obtained by Toxics Targeting: 2/14/2013.

(b) **RCRA Notifier & Violations Information:** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]

New facilities updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.
Data attributes updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.

12) **Chemical Bulk Storage Facilities:** New York State database of facilities compiled pursuant to 6NYCRR Part 596 that store regulated substances listed in 6NYCRR Part 597 in aboveground tanks with capacities greater than 185 gallons and /or in underground tanks of any size. **Tank & other data withheld by NYSDEC as of 4/1/2002**.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]
Data updated through: 2/13/2013. Data obtained by Toxics Targeting: 2/13/2013.

13) **Historic New York City Utility Facilities (1898 to 1950):** An inventory of selected power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites identified in various historic documents, maps and annual reports of New York utility companies, including: Sanborn Fire Insurance Maps of NYC (1898-1950); Consolidated Edison Co. Annual Reports (1922-1939); Consolidated Edison Co. Map: "Boroughs of Manhattan and the Bronx Showing Distribution Mains of the New York Edison Co.," (1922); and Consolidated Edison document: "Generating and Annex Stations," (1911).

14) **Hazardous Substance Waste Disposal Site Study:** NYS database of waste disposal sites that may pose threats to public health or the environment, but could not be remediated using monies from the Hazardous Waste Remedial Fund.
Source: New York State Department of Environmental Conservation.[2]
Data updated to: 5/16/2000. Data obtained by Toxics Targeting: 5/16/2000.

15) **Toxic Release Inventory (TRI):** Federal database of manufacturing facilities required under Section 313 of the Federal Emergency Planning and Community Right-to-Know Act to report releases to the air, water and land of any specifically listed toxic chemical. See Fannie Mae requirement** below.
Source: U. S. Environmental Protection Agency.[1] / NYS Department of Environmental Conservation[2]
Data updated through: 3/8/2004. Data obtained by Toxics Targeting: 3/25/2004

16) **Toxic Wastewater Discharges (Permit Compliance System):** Federal database of discharges of wastewater to surface waters and groundwaters. See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency.[1]
Data updated through: 6/17/2004. Data obtained by Toxics Targeting: 7/19/2004.

17) **Air Discharge Facilities:** EPA AIRS database containing address information on each air emission facility and the type of air pollutant emission it is. Compliance information is also provided on each pollutant as well as the facility itself.
See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency[1]
Data updated through: 11/24/1999. Data obtained by Toxics Targeting: 1/6/2000

18) **Civil Enforcement & Administrative Docket:** This database is the U. S. EPA's system for tracking administrative and civil judiciary cases filed on behalf of the agency by the Department of Justice. Fannie Mae required.**
Source: U. S. Environmental Protection Agency.[1]
New Sites through: 10/14/1999.
Data updated through: 10/14/1999. Data obtained by Toxics Targeting: 11/18/1999.

19) **New York City Environmental Quality Review (CEQR) – E Designation Sites:** These sites are parcels assigned a special environmental ("E") designation under the CEQR process. E designation requires specific protocols that must be followed. Source: New York City Department of Planning[3]
Data updated through: 11/13/2012. Data obtained by Toxics Targeting: 12/3/2012

20) **Emergency Response Notification System (ERNS):** Federal database of spills compiled by the Emergency Response Notification System. On-site searches only.
ASTM required.* See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency.[1]
Data updated through: 1/31/2000. Data obtained by Toxics Targeting: 2/15/2000

21) **Remediation Site Borders:** Remediation site borders reported by NYSDEC.
Source: New York State Department of Environmental Conservation.[2]
Updated through: 4/8/2009. Data obtained by Toxics Targeting: 7/21/2009.

* American Society of Testing Materials: Standard Practice on Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-05).
** Fannie Mae's Part X Environmental Hazards Management Procedures specify 1.0 mile searches for "any state or Federal list of hazardous waste sites (e.g. CERCLIS, HWDMS etc.)." Searches for the property and adjacent properties are specified for "chemical manufacturing plants," "obvious high risk neighbors engaging in storing or transporting hazardous waste, chemicals or substances" and "...any documented or visible evidence of dangerous waste handling... (e.g. stressed vegetation, stained soil, open or leaking containers, foul fumes or smells, oily ponds, etc." Searches for property and adjacent properties can include sites up to a quarter mile away (W. Hayward, Director, Multi-Family Business Planning and Control, Fannie Mae, personal communication, 5/94).

[1]U. S. Environmental Protection Agency, 290 Broadway, NY, NY 10007-1866.

[2]NYS Department of Environmental Conservation, 625 Broadway, Albany, NY 12233.

[3]New York City Department of City Planning, 22 Reade St, New York, NY 10007-1216

APPENDIX E

Sanborn Fire Insurance Maps

415 Manhattan Avenue

415 Manhattan Avenue

Brooklyn, NY 11222

Inquiry Number: 3532161.1

March 01, 2013

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

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

Certified Sanborn® Map Report

3/01/13

Site Name:
415 Manhattan Avenue
415 Manhattan Avenue
Brooklyn, NY 11222

Client Name:
Laurel Env. Assoc., Ltd.
53 West Hills Road
Huntington Station, NY 11746

EDR Inquiry # 3532161.1

Contact: Carla Sullivan

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Laurel Env. Assoc., Ltd. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 415 Manhattan Avenue
Address: 415 Manhattan Avenue
City, State, Zip: Brooklyn, NY 11222
Cross Street:
P.O. # 12-409
Project: 415 Manhattan Avenue
Certification # 3353-4156-A9D4

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	

Sanborn® Library search results
Certification # 3353-4156-A9D4

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

The Sanborn Library LLC Since 1866™

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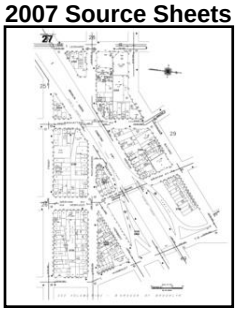

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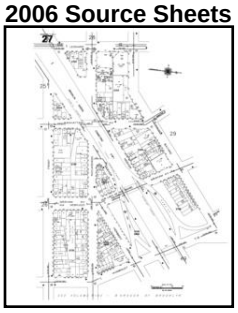

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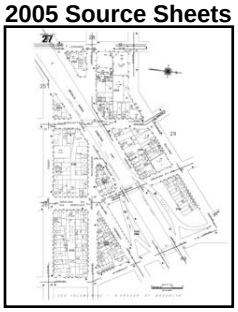

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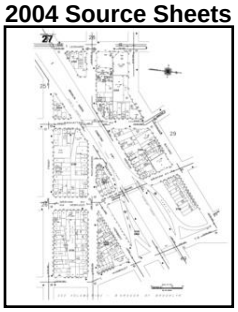

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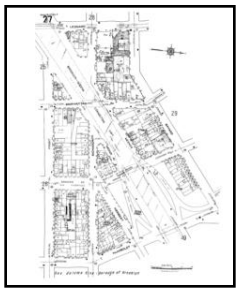

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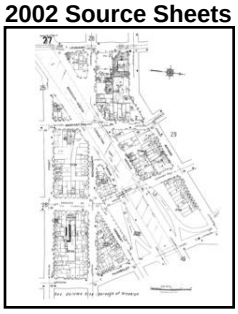

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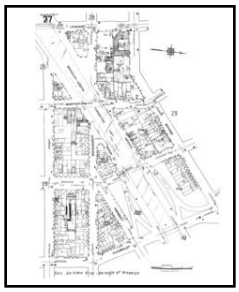

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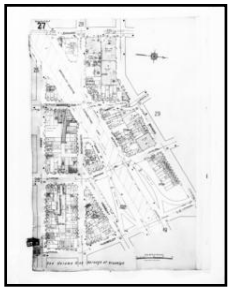

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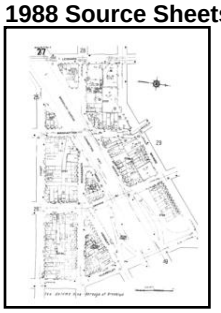

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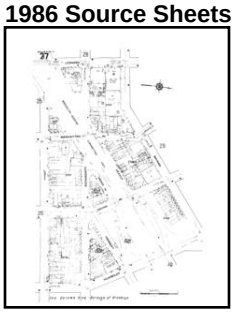

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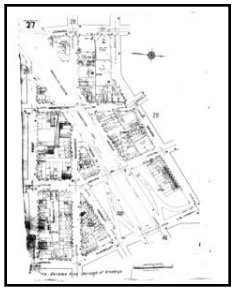

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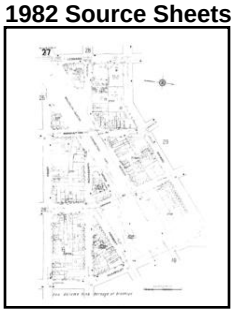

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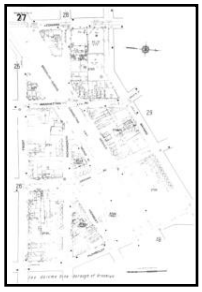

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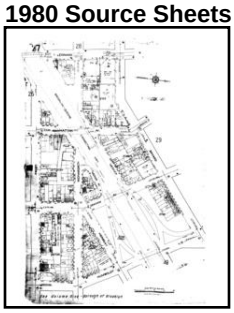

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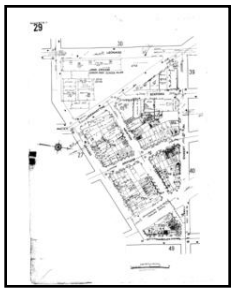

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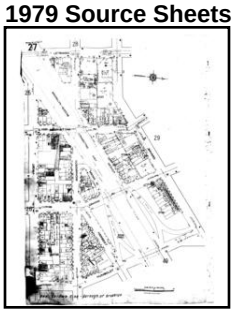

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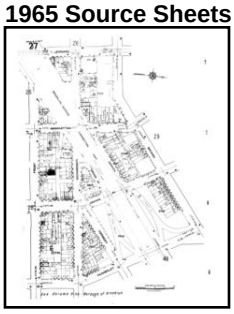

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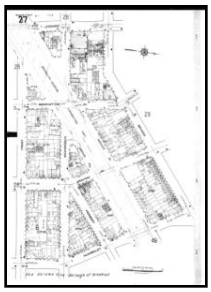

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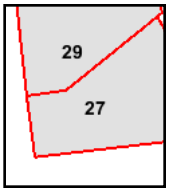

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Client:	Laurel Env. Assoc., Ltd.
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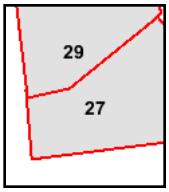

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Address:	415 Manhattan Avenue
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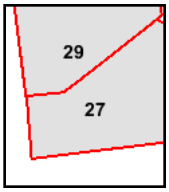

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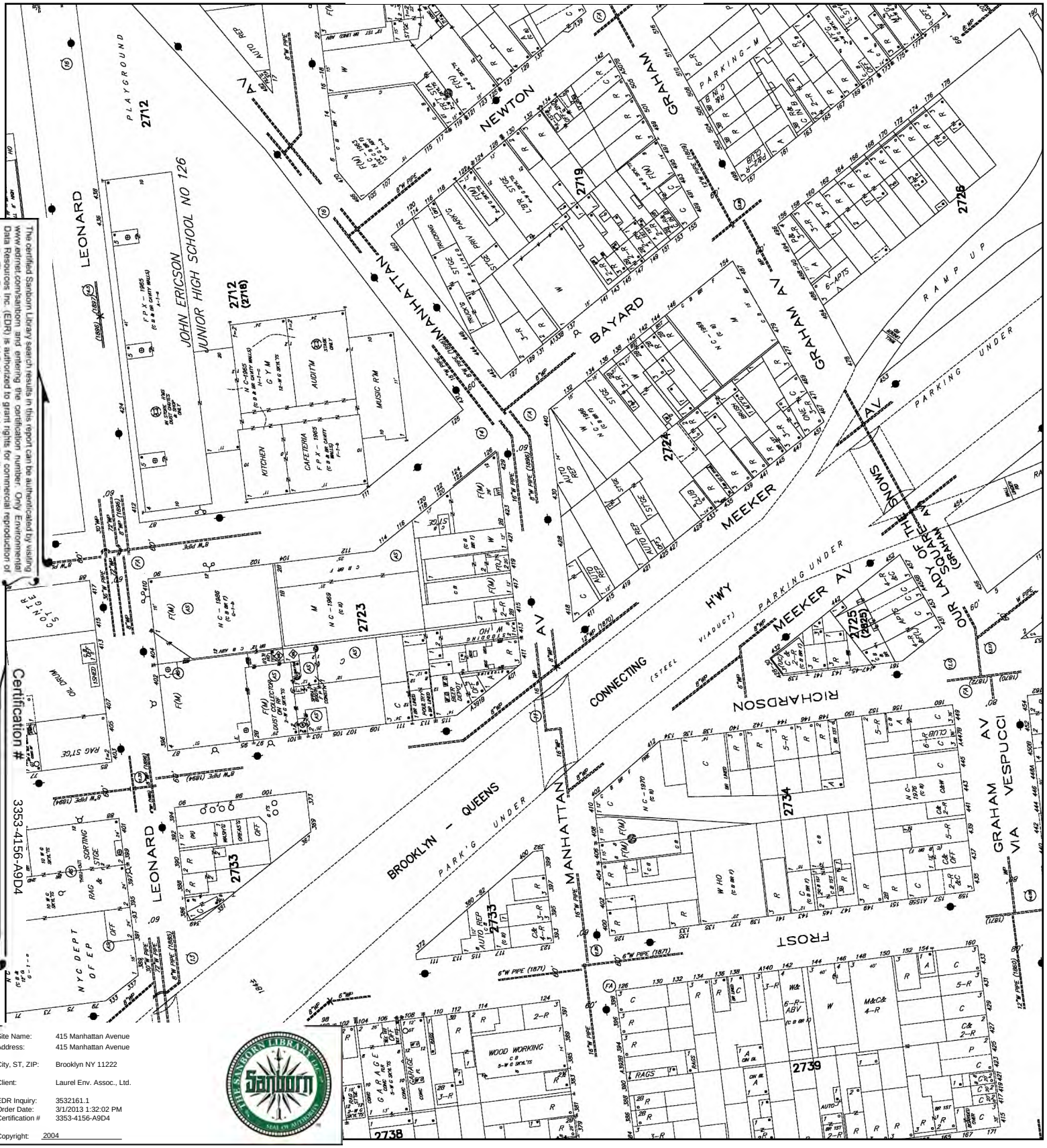

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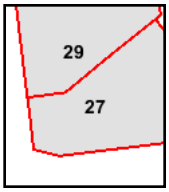

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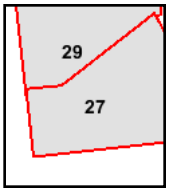

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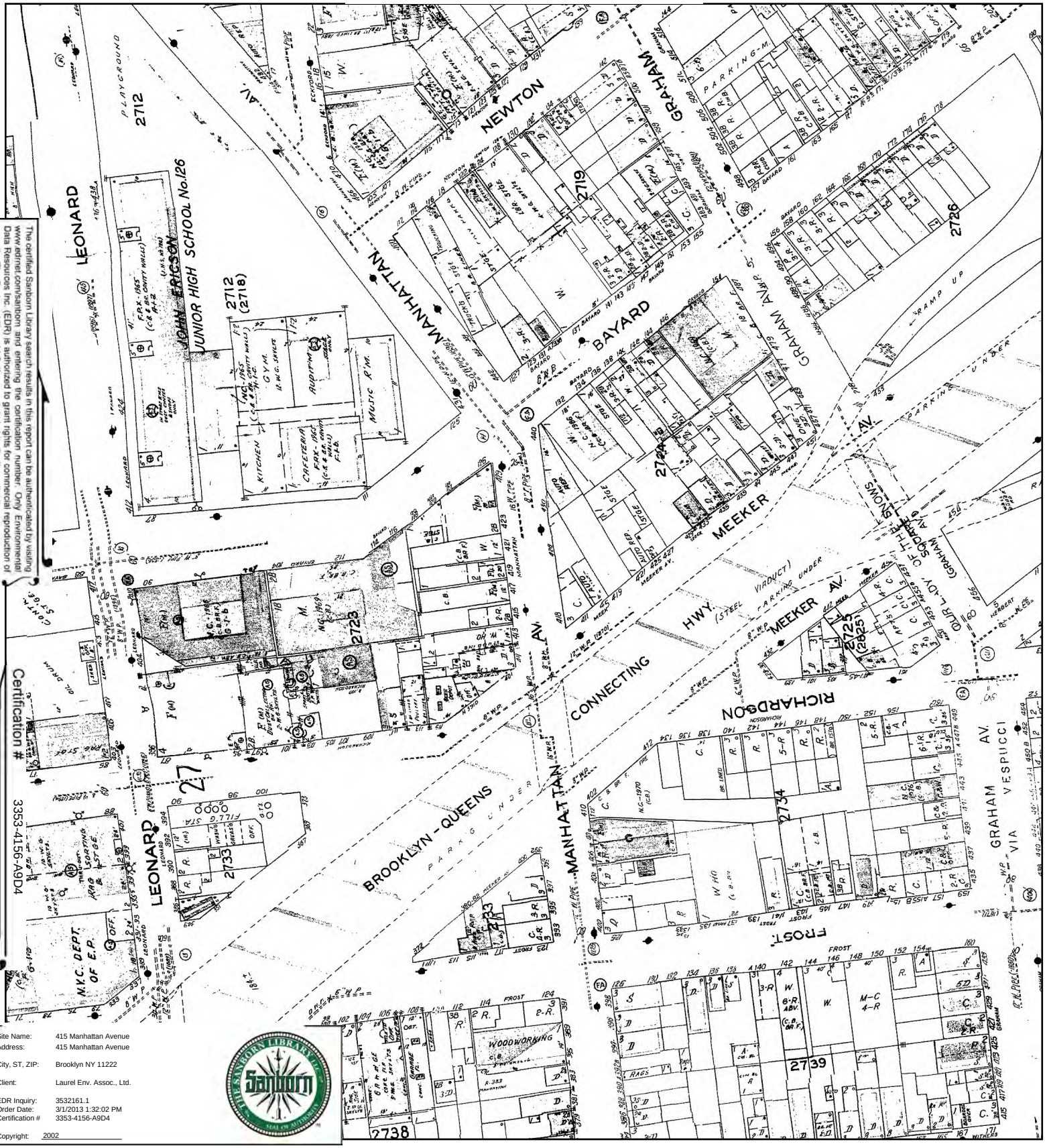

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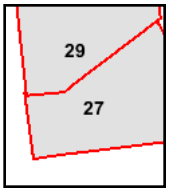

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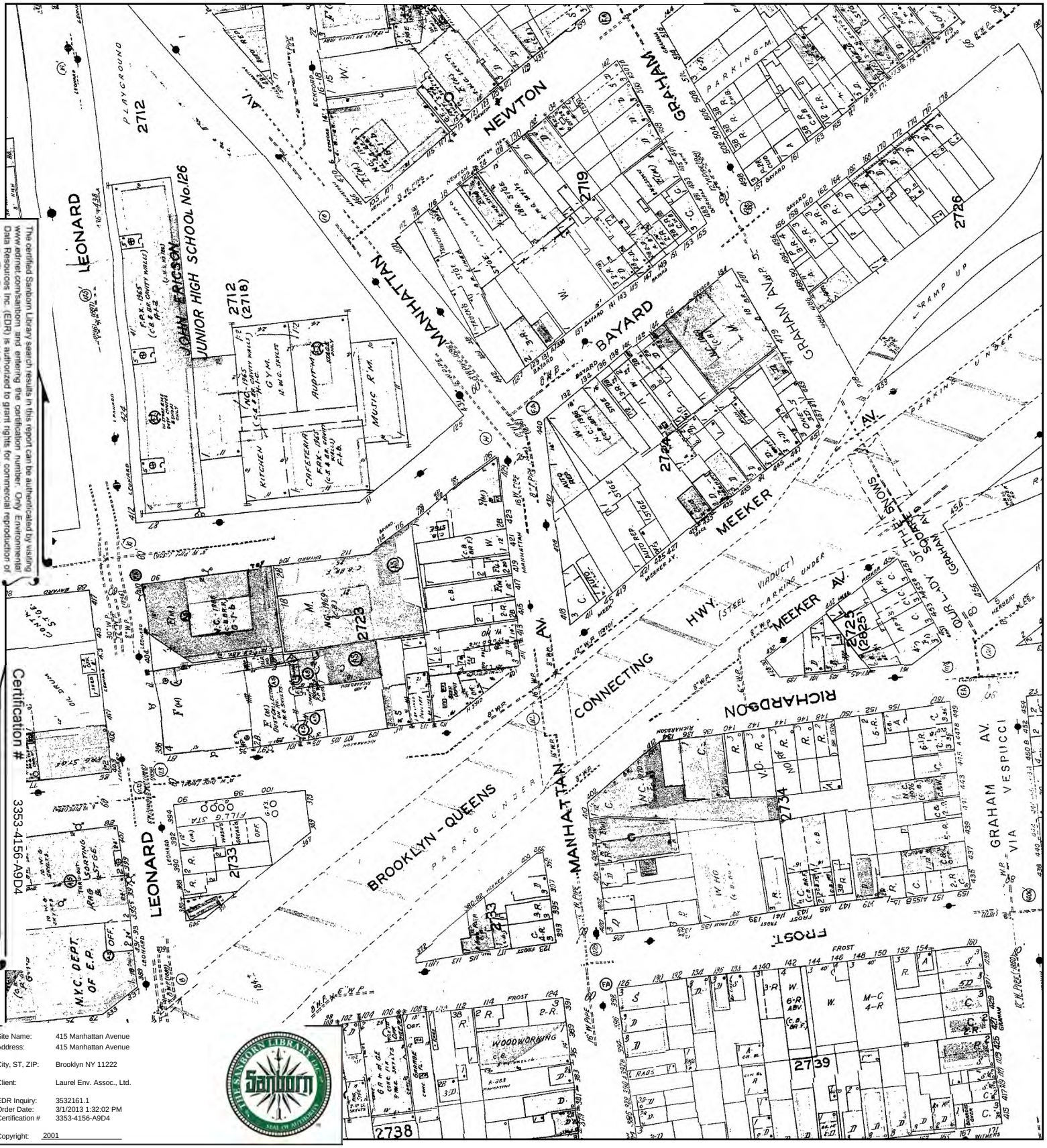

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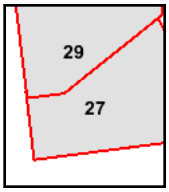

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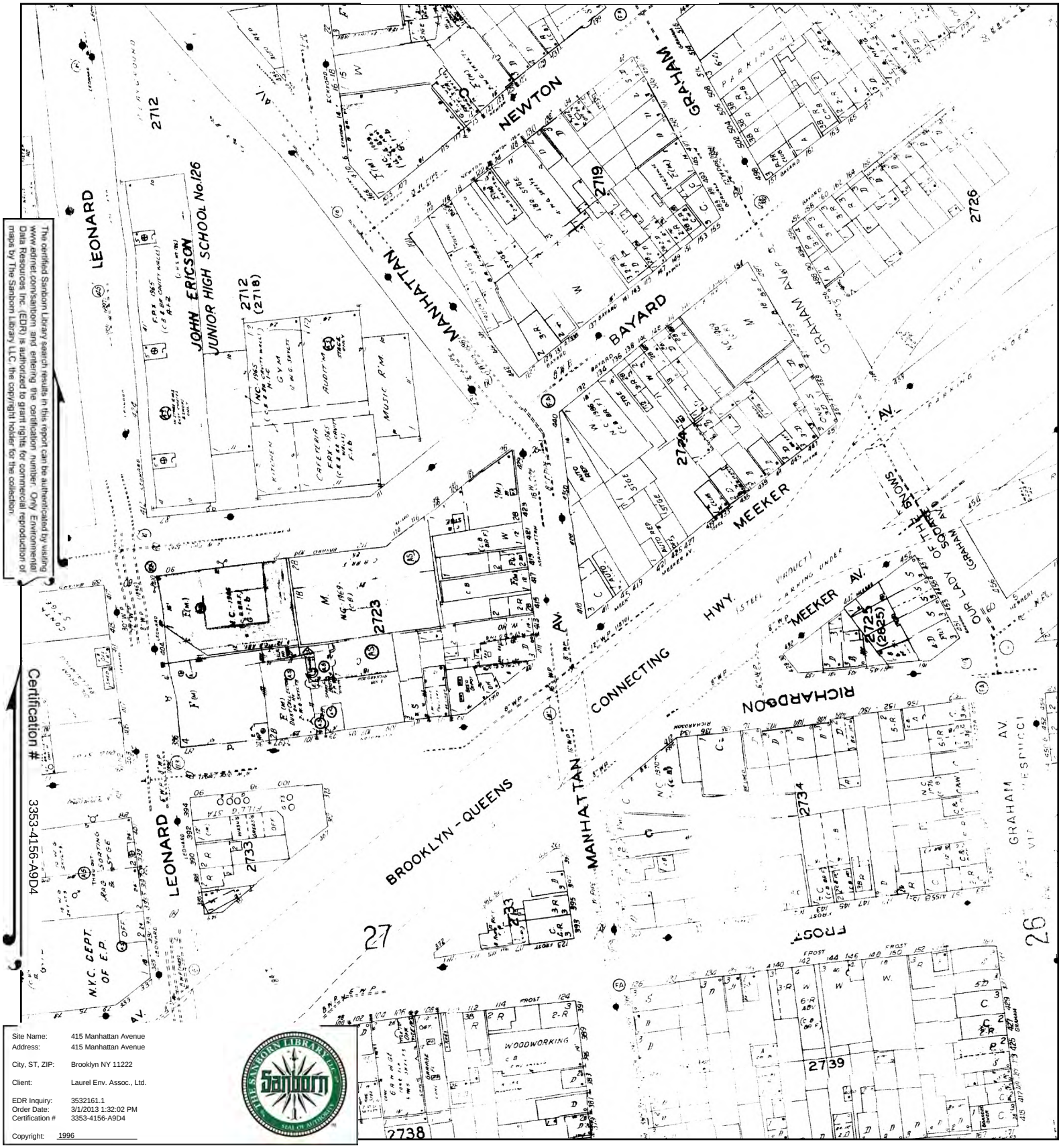

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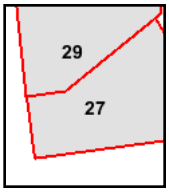

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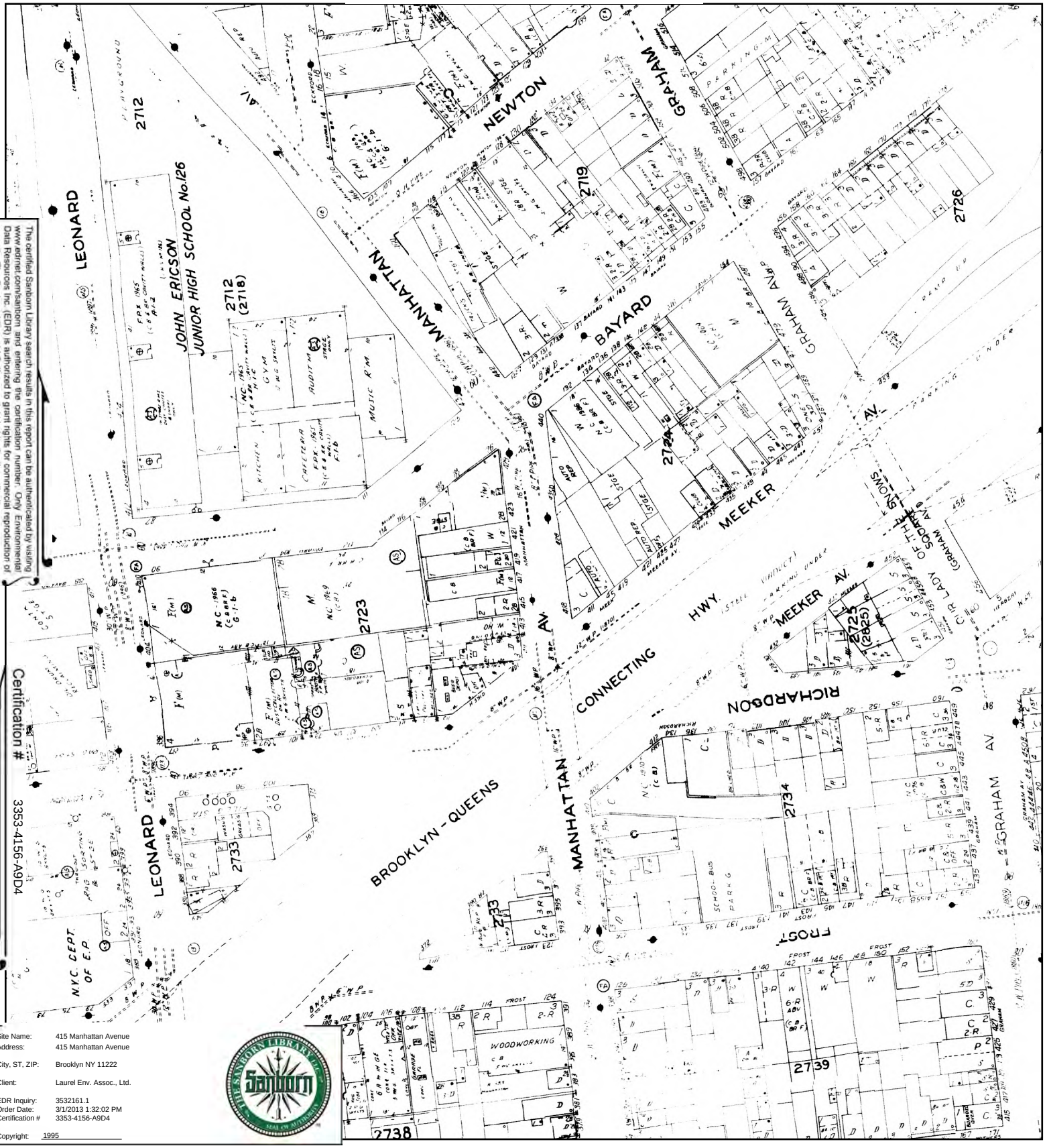

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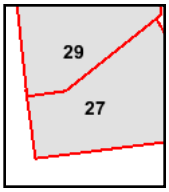

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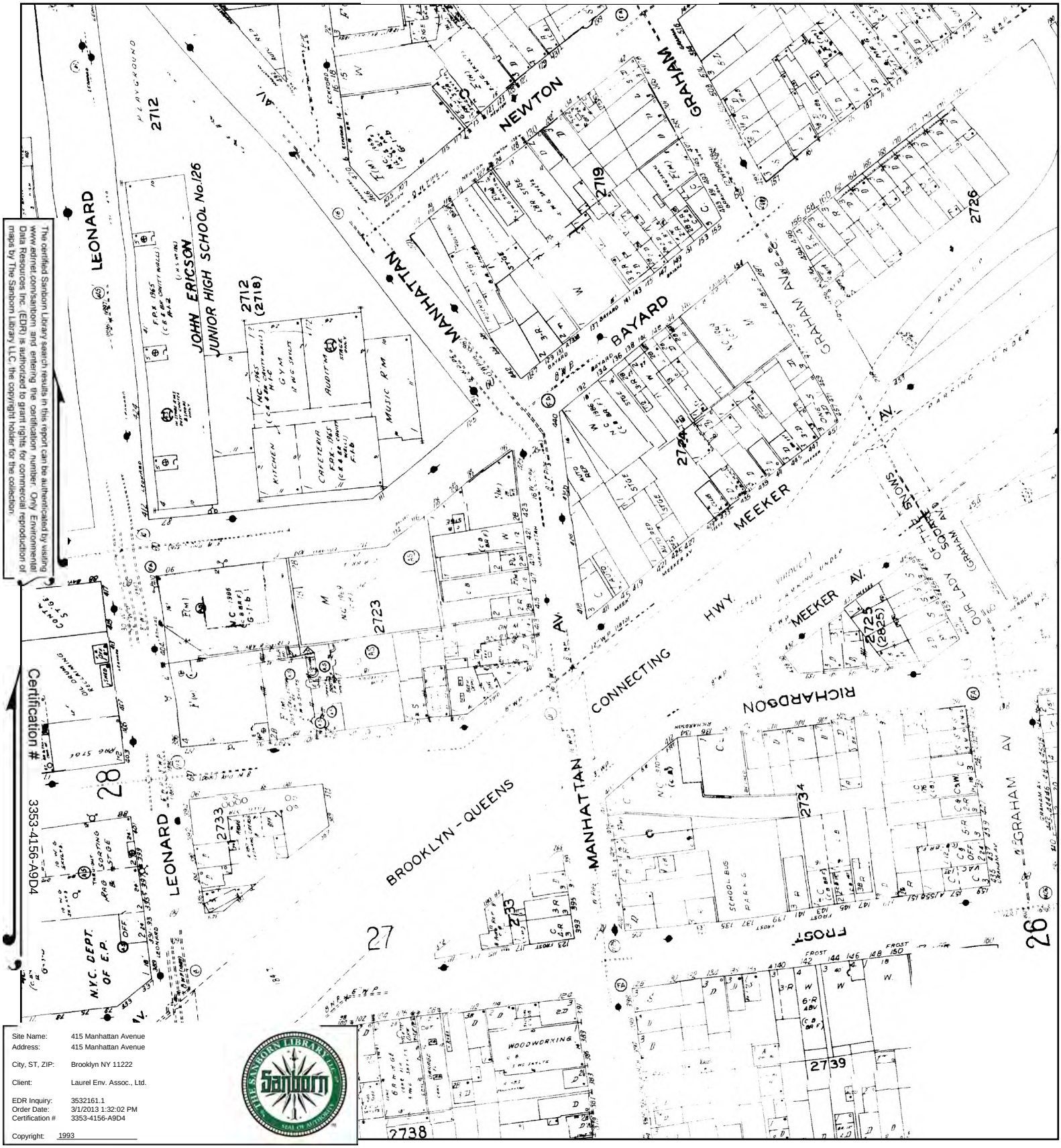

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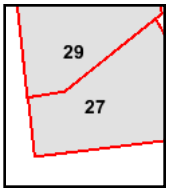

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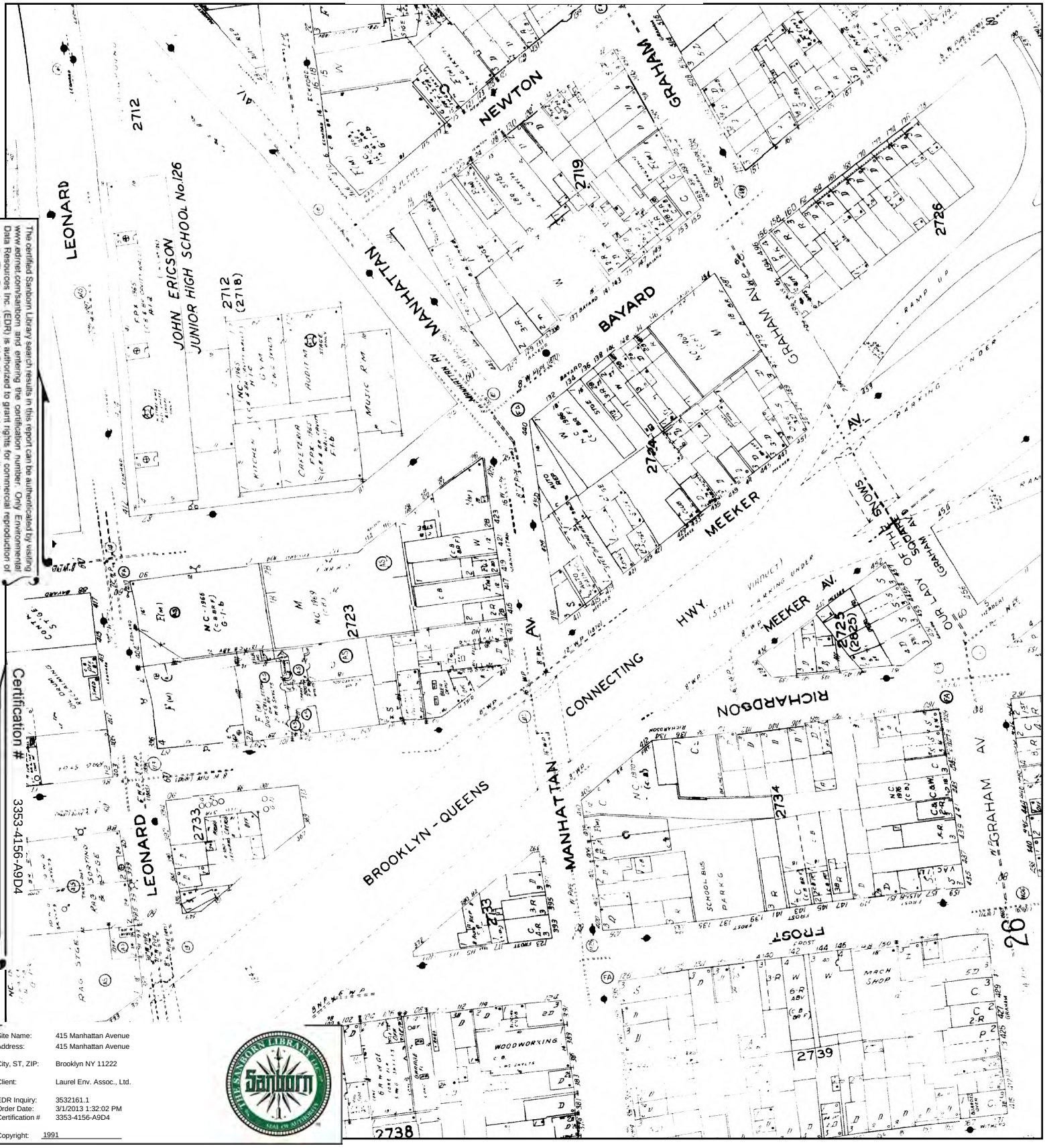

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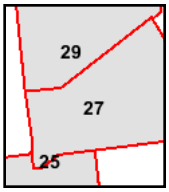

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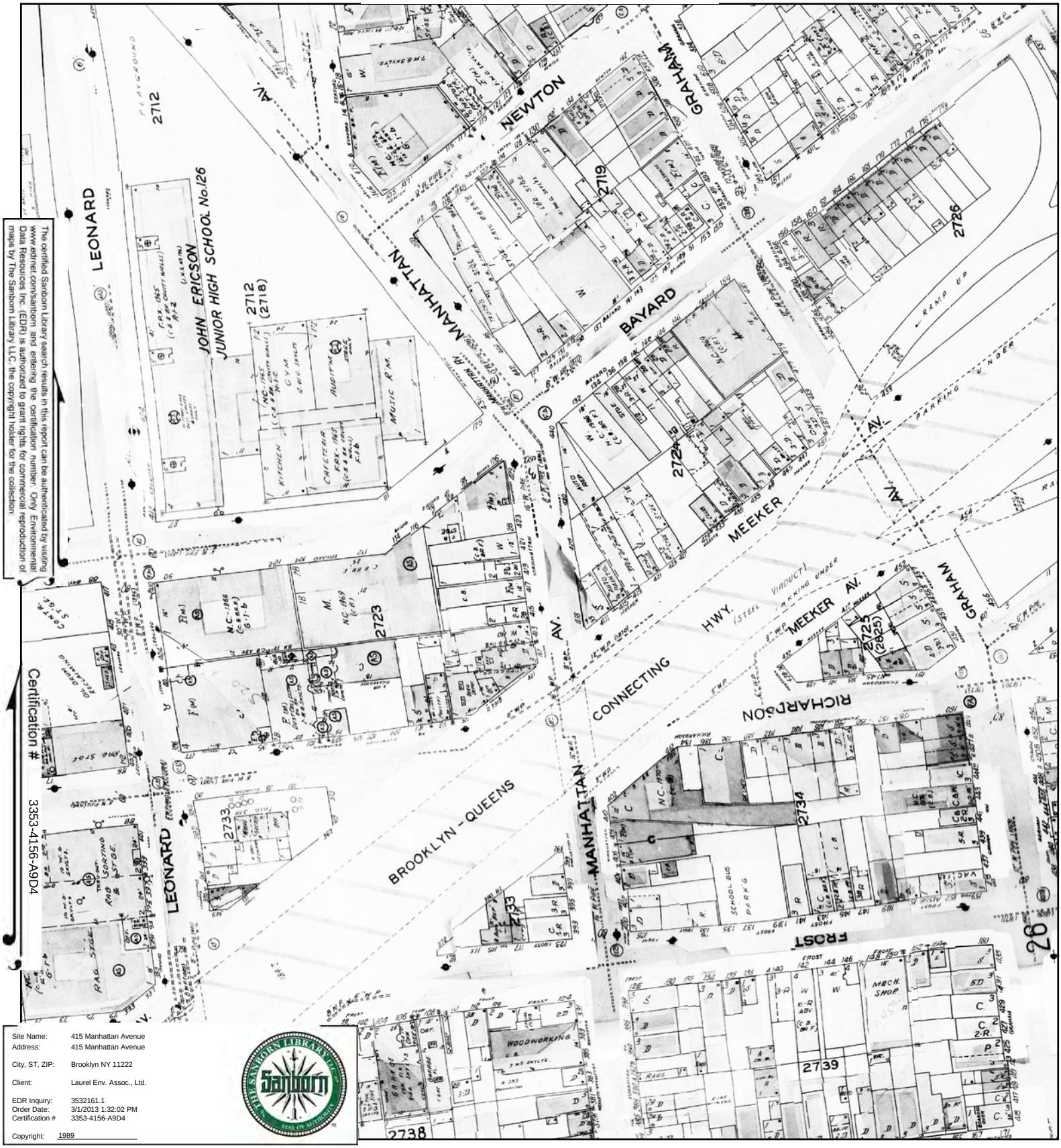

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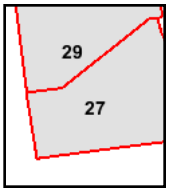

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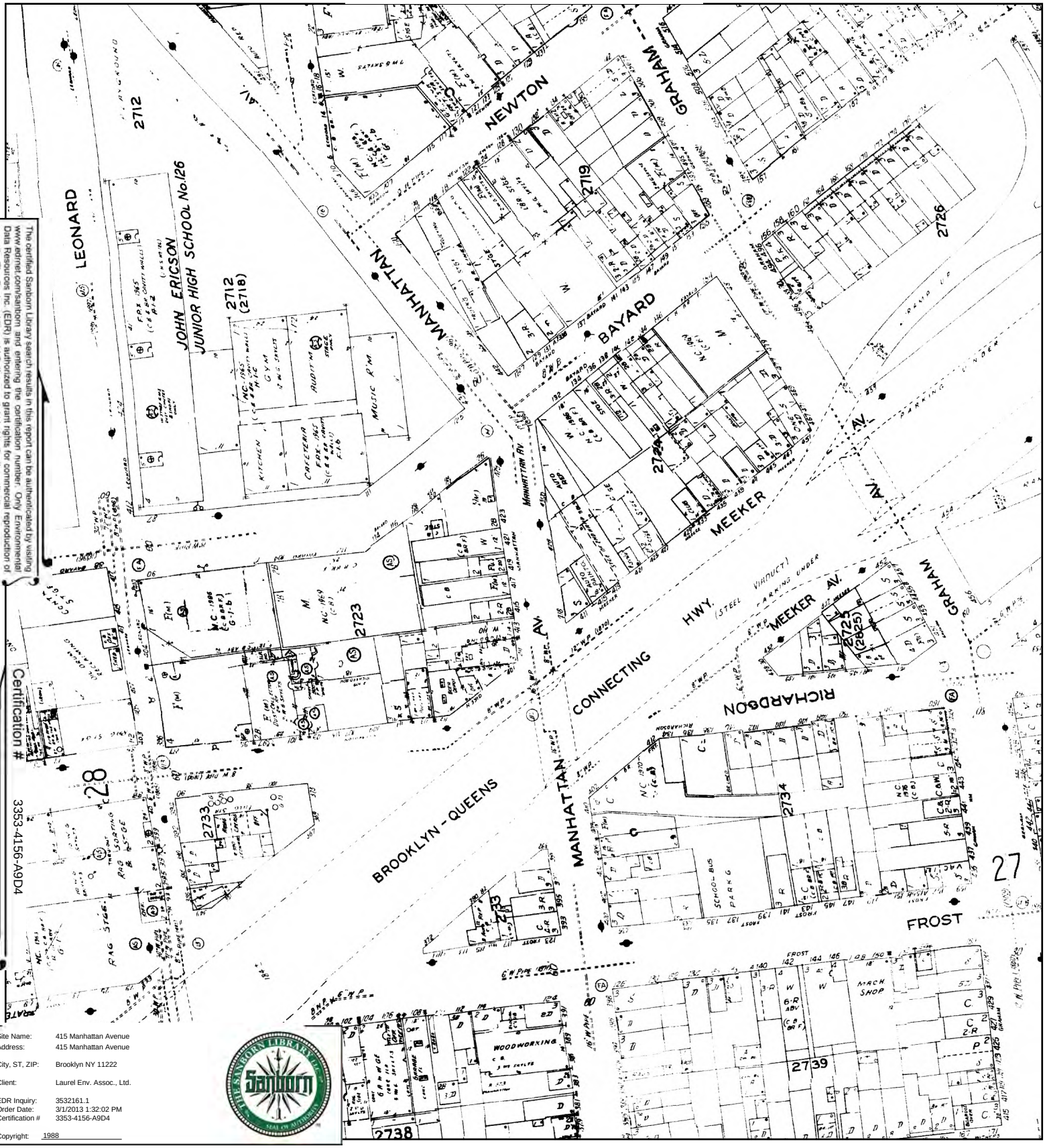

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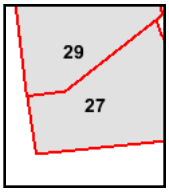

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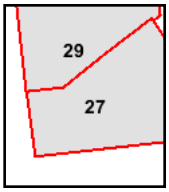

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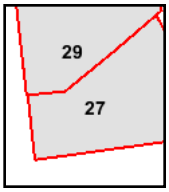

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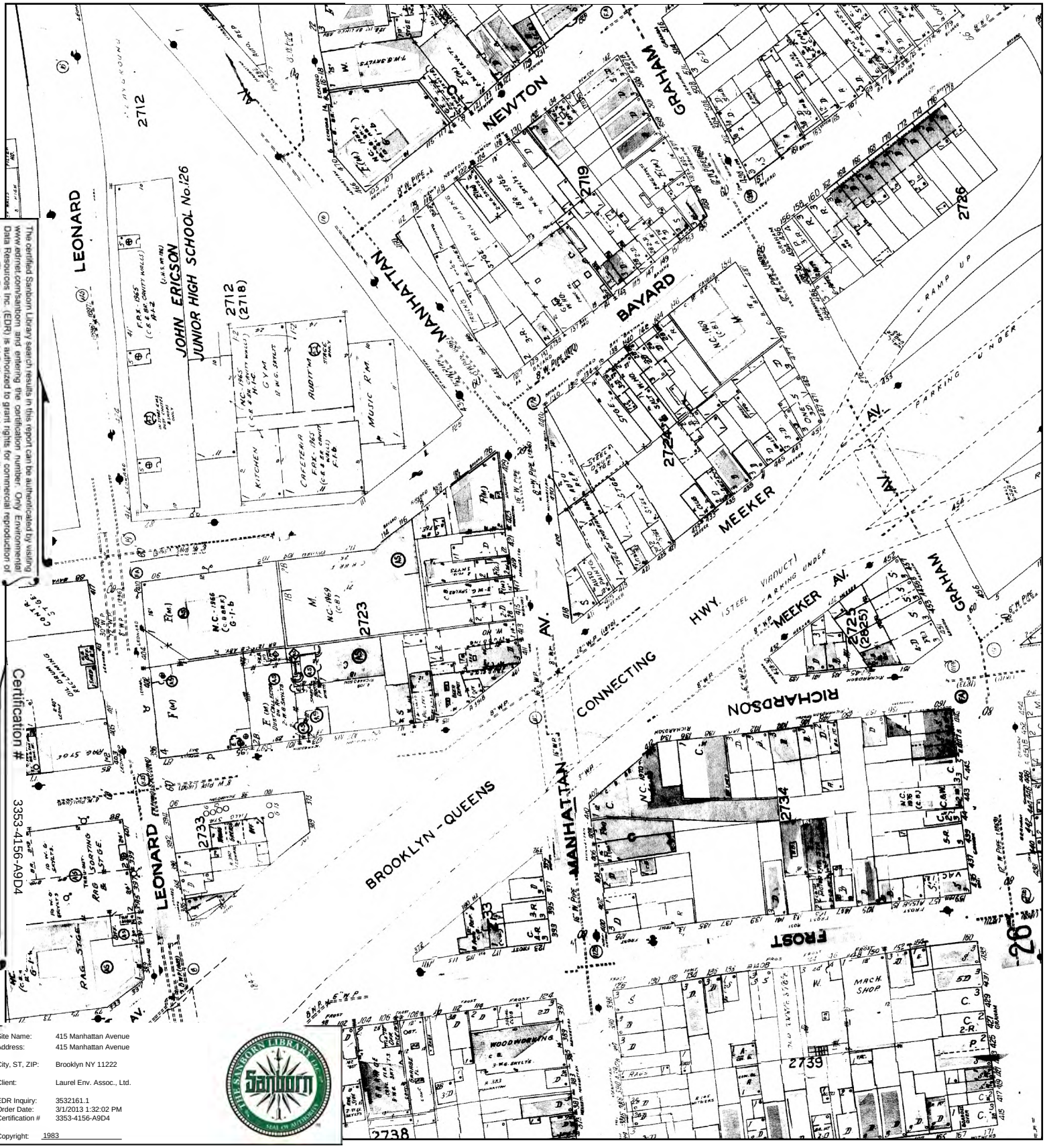

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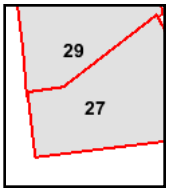

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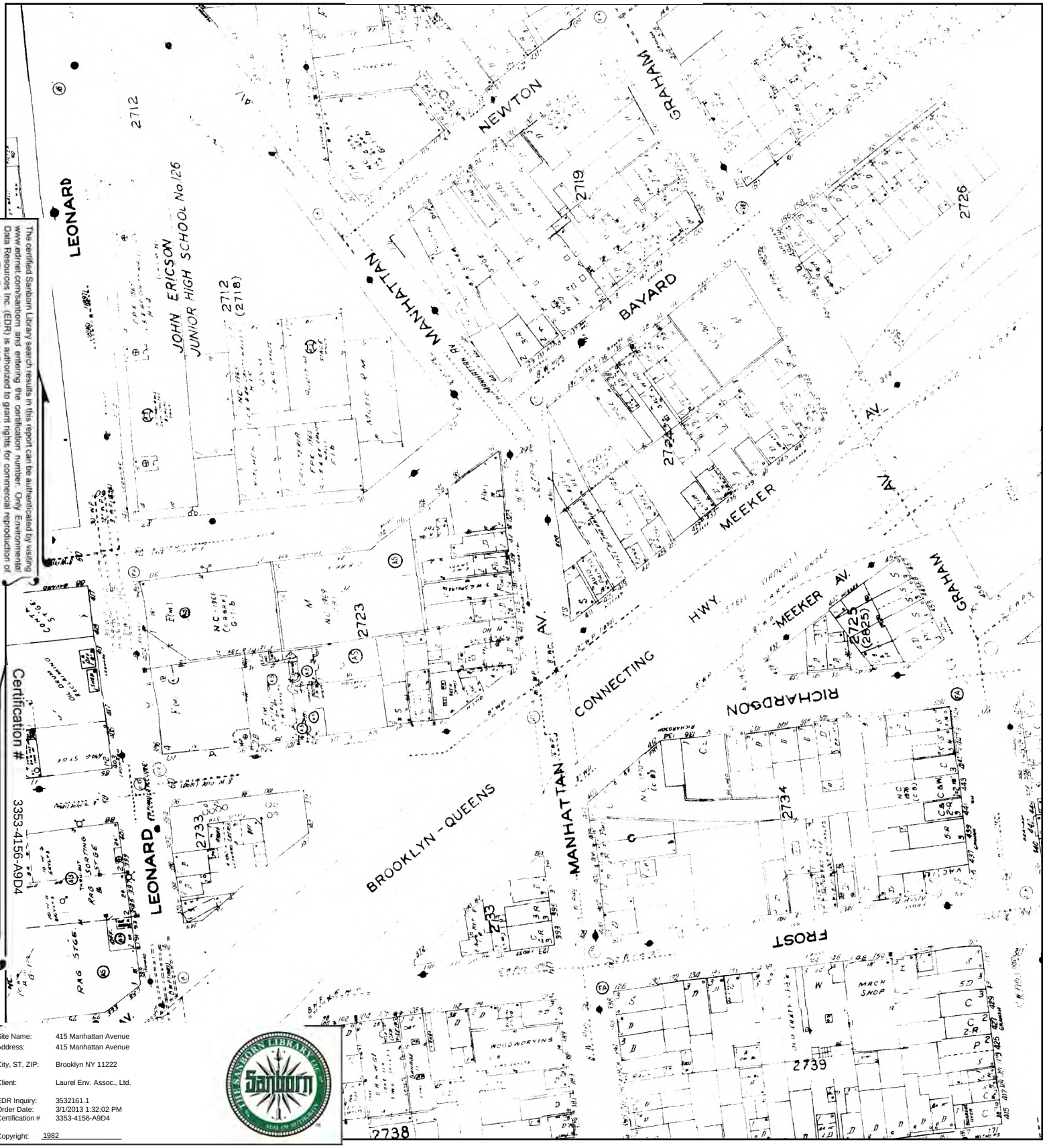

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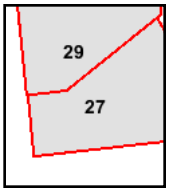

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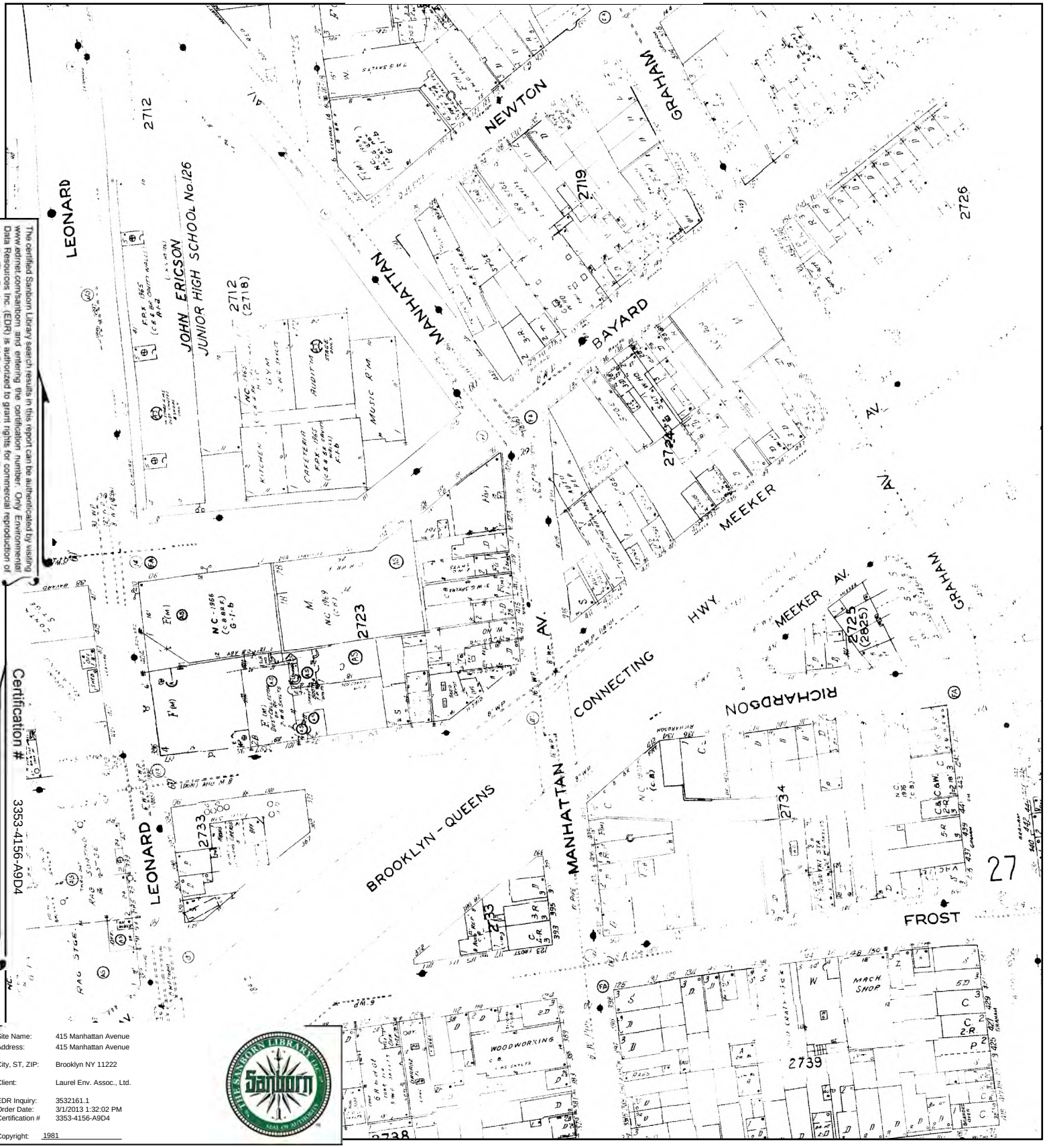

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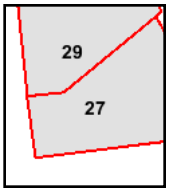

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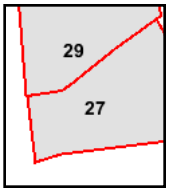

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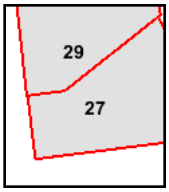

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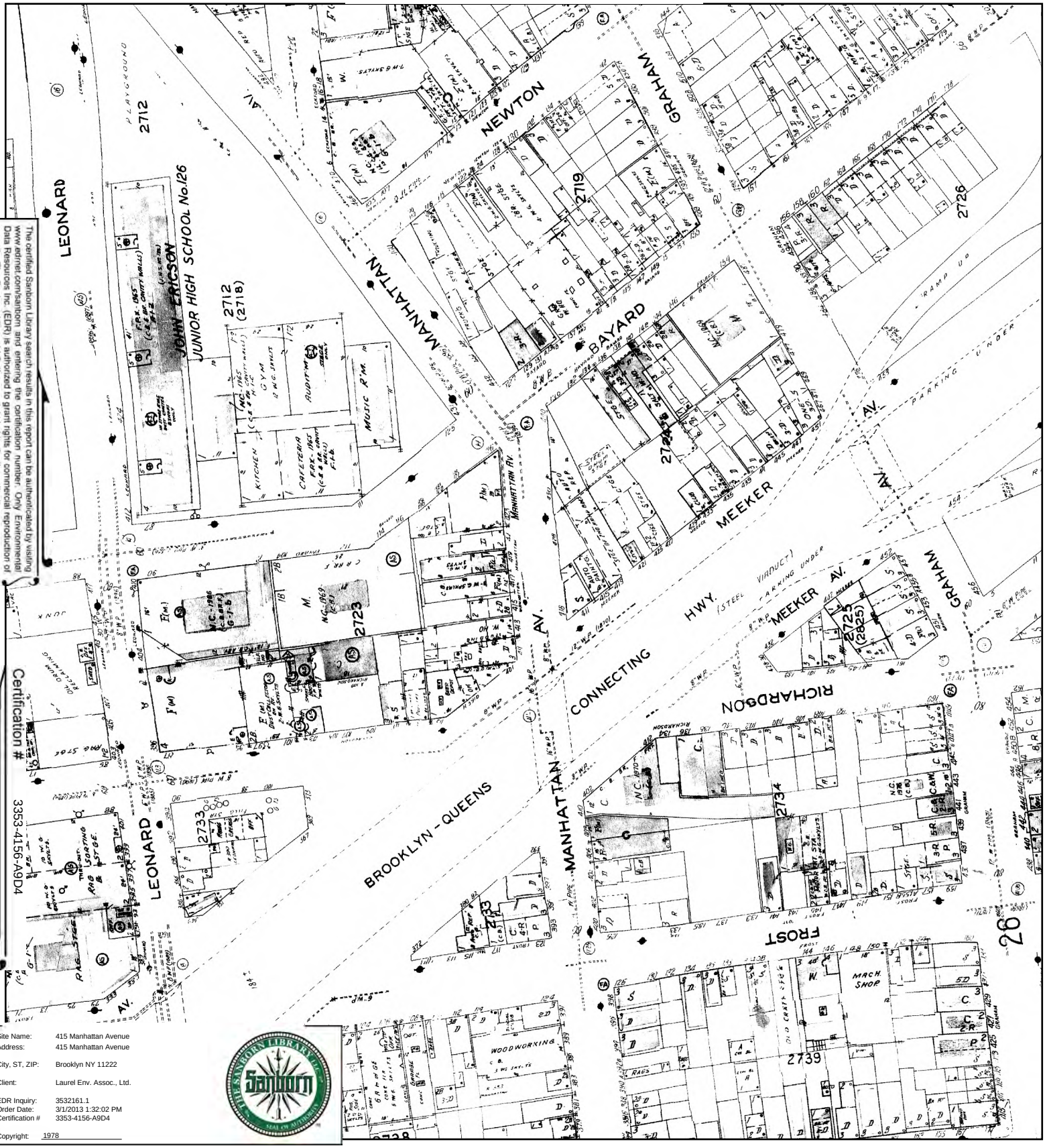

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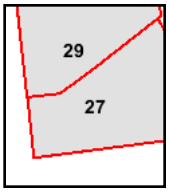

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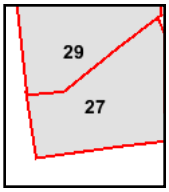
Address:	415 Manhattan Avenue
City, ST, ZIP:	Brooklyn NY 11222
Client:	Laurel Env. Assoc., Ltd.
EDR Inquiry:	3532161.1
Order Date:	3/1/2013 1:32:02 PM
Certification #	3353-4156-A9D4
Copyright:	1965

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

0 Feet 150 300 600



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Volume 4, Sheet 29

N

1951 Certified Sanborn Map

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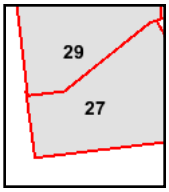
Certification # 3353-4156-A9D4

Site Name:	415 Manhattan Avenue
Address:	415 Manhattan Avenue
City, ST, ZIP:	Brooklyn NY 11222
Client:	Laurel Env. Assoc., Ltd.
EDR Inquiry:	3532161.1
Order Date:	3/1/2013 1:32:02 PM
Certification #	3353-4156-A9D4
Copyright:	1951

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

0 Feet 150 300 600



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Volume 4, Sheet 27

N

1942 Certified Sanborn Map

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Certification # 3353-4156-A9D4

Site Name:	415 Manhattan Avenue
Address:	415 Manhattan Avenue
City, ST, ZIP:	Brooklyn NY 11222
Client:	Laurel Env. Assoc., Ltd.
EDR Inquiry:	3532161.1
Order Date:	3/1/2013 1:32:02 PM
Certification #	3353-4156-A9D4
Copyright:	1942

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

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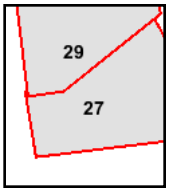

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1916 Certified Sanborn Map

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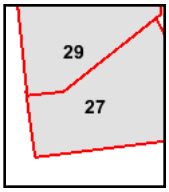
Certification # 3353-4156-A9D4

Site Name:	415 Manhattan Avenue
Address:	415 Manhattan Avenue
City, ST, ZIP:	Brooklyn NY 11222
Client:	Laurel Env. Assoc., Ltd.
EDR Inquiry:	3532161.1
Order Date:	3/1/2013 1:32:02 PM
Certification #	3353-4156-A9D4
Copyright:	1916

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

0 Feet 150 300 600



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1905 Certified Sanborn Map

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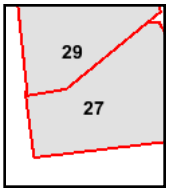
Site Name:	415 Manhattan Avenue
Address:	415 Manhattan Avenue
City, ST, ZIP:	Brooklyn NY 11222
Client:	Laurel Env. Assoc., Ltd.
EDR Inquiry:	3532161.1
Order Date:	3/1/2013 1:32:02 PM
Certification #	3353-4156-A9D4
Copyright:	1905

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

0 Feet 150 300 600



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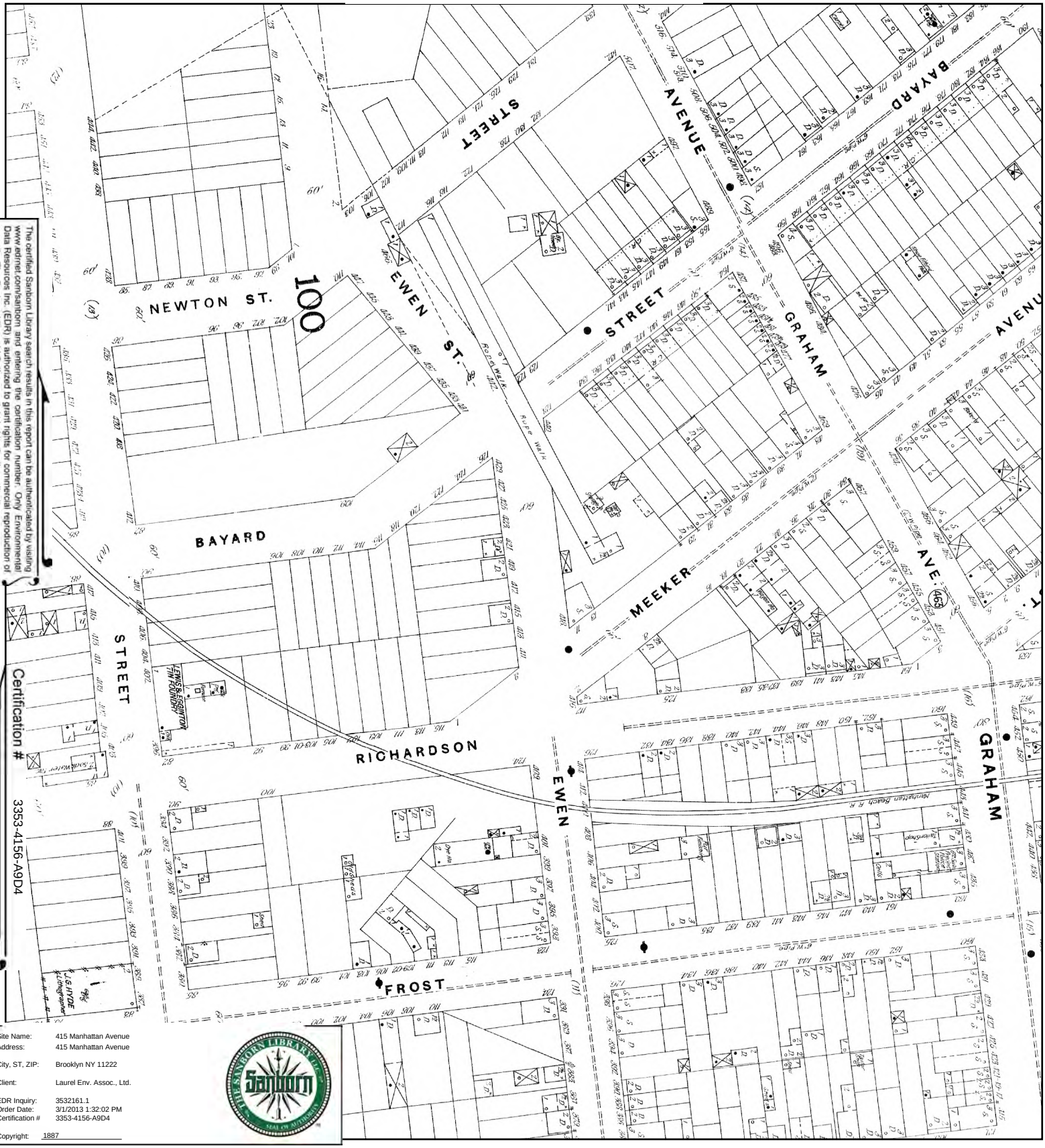
1887 Certified Sanborn Map



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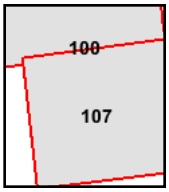
Certification # 3353-4156-A9D4

Site Name:	415 Manhattan Avenue
Address:	415 Manhattan Avenue
City, ST, ZIP:	Brooklyn NY 11222
Client:	Laurel Env. Assoc., Ltd.
EDR Inquiry:	3532161.1
Order Date:	3/1/2013 1:32:02 PM
Certification #	3353-4156-A9D4
Copyright:	1887

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

0 Feet 150 300 600



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APPENDIX F

Historical Aerial Photographs

Year: 1994
Brooklyn, NY

NAPP
Year: 1991
Brooklyn, NY

Year: 1984
Brooklyn, NY

APPENDIX G

City Directories

415 Manhattan Avenue
415 Manhattan Avenue
Brooklyn, NY 11222

Inquiry Number: 3530381.1
February 26, 2013

The EDR-City Directory Abstract

Environmental Data Resources Inc

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

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

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

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

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

RESEARCH SUMMARY

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

Year	Source	TP	Adjoining	Text Abstract	Source Image
2012	Cole Information Services	-	X	X	-
2007	Cole Information Services	-	X	X	-
2005	Hill-Donnelly Corporation	X	X	X	-
2000	Cole Information Services	X	X	X	-
1997	NYNEX	X	X	X	-
1992	NYNEX Informantion Resource Co.	X	X	X	-
1985	NYNEX Information Resources Company	X	X	X	-
1980	New York Telephone	-	X	X	-
1976	New York Telephone	X	X	X	-
1973	New York Telephone	-	X	X	-
1970	New York Telephone	X	X	X	-
1965	New York Telephone	-	X	X	-
1960	New York Telephone	X	X	X	-
	New York Telephone Company	X	X	X	-
1949	New York Telephone Company	-	X	X	-
1945	New York Telephone Company	-	X	X	-
1940	New York Telephone Company	-	X	X	-
1934	R. L. Polk & Co.	-	-	-	-
1928	New York Telephone	X	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

415 Manhattan Avenue
Brooklyn, NY 11222

FINDINGS DETAIL

Target Property research detail.

MANHATTAN

415 MANHATTAN

Year	Uses	Source
1928	CACIOPPO JOS ELCTRN	New York Telephone
	SPIRO ALLEN R	New York Telephone

MANHATTAN AVE

415 MANHATTAN AVE

Year	Uses	Source
2005	h Plecenik Alexander	Hill-Donnelly Corporation
	h Wiacek Augustyn	Hill-Donnelly Corporation
	Wiacek Ewa & Augstyn	Hill-Donnelly Corporation
2000	ALEXANDER PLECENIK	Cole Information Services
	ANIELA SLAVOV	Cole Information Services
	AUGUST WICEK	Cole Information Services
	RYSZARD CLESIELSKA	Cole Information Services
1997	ALEKSANDROWTCZ Stanislaw	NYNEX
	POMPA Gustav	NYNEX
	SLAVOV Aniela	NYNEX
1992	SLAVOV ANIELA	NYNEX Informantion Resource Co.
	TALALAJ CZESLAW	NYNEX Informantion Resource Co.
1985	CASANOVA S M	NYNEX Information Resources Company
	METZGER E	NYNEX Information Resources Company
1976	CASANOVA STEPHANIE	New York Telephone
1970	Bianculli M	New York Telephone
1960	BIANCULLI MARY M	New York Telephone
	MAROTTA ALBERT	New York Telephone
	Bianculli Mary M	New York Telephone Company
	Marotta Albert	New York Telephone Company

FINDINGS

ADJOINING PROPERTY DETAIL

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

MANHATTAN

411 MANHATTAN

Year	Uses	Source
1928	HUHN MINNIE C MISS R	New York Telephone
	LERCH ELEANOR R	New York Telephone

416 MANHATTAN

Year	Uses	Source
1928	LEYDEN JAS R	New York Telephone
	WETZEL ERNST R	New York Telephone

422 MANHATTAN

Year	Uses	Source
1928	FORMONT CHAS P R	New York Telephone

428 MANHATTAN

Year	Uses	Source
1928	KRUEGER ANNA M MRS R	New York Telephone

MANHATTAN AVE

411 MANHATTAN AVE

Year	Uses	Source
2005	h Dewees Deborah	Hill-Donnelly Corporation
	Marshall Joan	Hill-Donnelly Corporation
	h Plonsky Andrew	Hill-Donnelly Corporation
2000	APARTMENTS	Cole Information Services
	JOANN ATWOOD	Cole Information Services
	2L DEBORAH DEWEES	Cole Information Services
	1A ANGELO INDELICATO	Cole Information Services
	JOSHUA KIL	Cole Information Services
	ANDREW PLONSKY	Cole Information Services
1997	INDELCATO Angelo	NYNEX
	SCHONMANN V C	NYNEX
1992	FEMINELLA CONO J	NYNEX Informantion Resource Co.

FINDINGS

Year	Uses	Source
1992	INDELICATO ANGELO	NYNEX Informantion Resource Co.
	NUNZIATO P	NYNEX Informantion Resource Co.
1985	FEMINELLA CONO J	NYNEX Information Resources Company
	INDELICATO ANGELO	NYNEX Information Resources Company
	SUSSMAN T	NYNEX Information Resources Company
1980	FEMINELLA CONO J	New York Telephone
1976	INDELICATO ANGELO	New York Telephone
	MURPHY EUGENE	New York Telephone
1973	Indelicata Angelo	New York Telephone
	Murphy Eugene	New York Telephone
	Santelli John	New York Telephone
1970	Indelicato Angelo	New York Telephone
	Murphy Eugene	New York Telephone
	Santell John	New York Telephone
1965	Murphy Eugene	New York Telephone
	Ottati John	New York Telephone
	Santelli C A	New York Telephone
1960	CALLOVINI ALBERT	New York Telephone
	DISTASI DANL	New York Telephone
	OTTATI JOHN	New York Telephone
	SANTELLI C A	New York Telephone
	Callovini Albert	New York Telephone Company
	Distasi Danl	New York Telephone Company
	Ottati John	New York Telephone Company
	Santelli C A	New York Telephone Company
1949	Ottati John	New York Telephone Company
	Parisi Carmela	New York Telephone Company
	Santelli C A	New York Telephone Company
1945	Ottati John	New York Telephone Company
	Parisi Carmela	New York Telephone Company
1940	Zanzonico Nunzio Il	New York Telephone Company
	Ottatl John	New York Telephone Company

413 MANHATTAN AVE

Year	Uses	Source
2012	OLK WOODWORKING INCORPORATED	Cole Information Services
2007	MYK MECHANICAL CORP	Cole Information Services
	OLK CO INC	Cole Information Services
	OLK WOODWORKING	Cole Information Services

FINDINGS

Year	Uses	Source
2005	Amold Matthew	Hill-Donnelly Corporation
	Myk Mechanical	Hill-Donnelly Corporation
	Ol 01k Woodworking Inc	Hill-Donnelly Corporation
2000	JOHN P MILLER	Cole Information Services
	RYAN SOVEREIGN	Cole Information Services
1997	Donehue Peter	NYNEX
1992	DONOHUE PETER	NYNEX Informantion Resource Co.

417 MANHATTAN AVE

Year	Uses	Source
2012	EUROPEAN DISTRIBUTIONS INC	Cole Information Services
2007	EUROPEAN DISTRIBUTIONS INC	Cole Information Services
2005	European Distributions Inc	Hill-Donnelly Corporation
2000	ERPN DSTRBTNS INC	Cole Information Services
1992	ANDREW ARTISTIC DISTRIBUTIONS FAX NUMBER	NYNEX Informantion Resource Co.
	BICENTENNIAL PUBLSHNG CORP	NYNEX Informantion Resource Co.
1973	Cavoli Jos	New York Telephone
1970	Pam Industries Inc	New York Telephone
	Cavoli Jos	New York Telephone
1965	San Ott Labs Inc	New York Telephone
1960	De Lorenzo John	New York Telephone Company
1949	Godricks Furn Transptn	New York Telephone Company
1945	Atlas Tube & Reef Co	New York Telephone Company
1940	Brenner Suwdust Co In	New York Telephone Company
	Brenner Coal Co	New York Telephone Company

419 MANHATTAN AVE

Year	Uses	Source
2012	ANDREW ARTISTIC	Cole Information Services
2007	SLOVENSKO DNES NEWSPAPER	Cole Information Services
	POLSKA GAZETA	Cole Information Services
	SPRING PUBLISHING CORP	Cole Information Services
	GOLSKA GAZETA NEWSPAPER	Cole Information Services
	ANDREW ARTISTIC DISTRIBUTION	Cole Information Services
2005	Polska Gazeta	Hill-Donnelly Corporation
	Slovensko Ones Newspaper	Hill-Donnelly Corporation
2000	SUPER EXPRESS USA	Cole Information Services
	SUPER EXPRESS USA	Cole Information Services

FINDINGS

Year	Uses	Source
2000	ANDREW ARTISTIC	Cole Information Services
1997	Andrew Artistic Distributions	NYNEX
1992	RODRIGUEZ MARIO CABINET	NYNEX Informantion Resource Co.
1985	NELMS BROOKLYN	NYNEX Information Resources Company
1976	NEW JERSEY CASKET CO	New York Telephone
1973	Superior Overall Mfg Corp	New York Telephone
1970	Superior Overall Mfg Corp	New York Telephone
1965	Superior Overall Mfg Corp	New York Telephone
1960	SUPERIOR OVERALL MFG CORP	New York Telephone
	Superior Overall Mfg Corp	New York Telephone Company
1949	Superior Wk Clothes Mfg Corp	New York Telephone Company
1945	Superior Uniform Co	New York Telephone Company

41O7 MANHATTAN AVE

Year	Uses	Source
1976	JAKER KENNETH	New York Telephone

424 MANHATTAN AVE

Year	Uses	Source
1949	Tip Top Trading Corp confctry	New York Telephone Company

428 MANHATTAN AVE

Year	Uses	Source
1997	ELIVAHU Rina	NYNEX

6273 MANHATTAN AVE

Year	Uses	Source
2005	Lebe Enterprises Inc	Hill-Donnelly Corporation
	Super Deli Market I	Hill-Donnelly Corporation

MEEKER AVE

411 MEEKER AVE

Year	Uses	Source
1992	MATHES JOHN	NYNEX Informantion Resource Co.
1985	MATHES JOHN	NYNEX Information Resources Company
	BRINDISI THOS	NYNEX Information Resources Company
1976	COUSINS PORK PRODS	New York Telephone
	BRINDISI THOS	New York Telephone
	MATHES JOHN	New York Telephone

FINDINGS

Year	Uses	Source
1973	Brindisi Thos	New York Telephone
	Curcio Mary Italian Sausages	New York Telephone
1970	Brindisi Thos	New York Telephone
	Curcio Mary Italian sausages	New York Telephone
	Robano Jeannette Miss	New York Telephone
1965	Brindisi Thos	New York Telephone
	Curcio Mary Italian sausages	New York Telephone
	Robano Jeannette Miss	New York Telephone
1960	BRINDISI THOS	New York Telephone
	CURCIO MARY ITALIAN SAUSAGES	New York Telephone
	ROBANO JEANNETTE MISS	New York Telephone
	Brindisi Thos	New York Telephone Company
	Curcio Mary Italian sausages	New York Telephone Company
	Robano Jeannette Miss	New York Telephone Company
1949	Robano Josephine	New York Telephone Company
1945	Cassello Mary	New York Telephone Company
	Grastataro Jos	New York Telephone Company

413 MEEKER AVE

Year	Uses	Source
2000	TEDS AUTO REPAIR	Cole Information Services
	TONYS AUTO BDY INC	Cole Information Services
1997	Teds Auto Repair	NYNEX
	Tonys Auto Body	NYNEX
1992	TONY S AUTO BODY	NYNEX Informantion Resource Co.
1985	JOSEPH & TONY COLLISION	NYNEX Information Resources Company
1976	BONGIORNO JOS AUTO REPR	New York Telephone
1973	Bongiorno Jos alto repr	New York Telephone
1970	Bongiorno Jos auto repr	New York Telephone
1960	OFFSEY MACHINERY CORP	New York Telephone
	Offsey Machinery Corp	New York Telephone Company

MEEKER AVE E

411 MEEKER AVE E

Year	Uses	Source
2005	h Capolino Anthony	Hill-Donnelly Corporation

FINDINGS

413 MEEKER AVE E

Year	***Uses***	***Source***
2005	Germans Mechanic s	Hill-Donnelly Corporation
	Tonys Auto Body	Hill-Donnelly Corporation

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
415 Manhattan Avenue	2012, 2007, 1980, 1973, 1965, 1949, 1945, 1940, 1934

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
411 MANHATTAN	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
411 MANHATTAN AVE	2012, 2007, 1934, 1928
411 MEEKER AVE	2012, 2007, 2005, 2000, 1997, 1980, 1940, 1934, 1928
411 MEEKER AVE E	2012, 2007, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
413 MANHATTAN AVE	2012, 2007, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
413 MANHATTAN AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
413 MEEKER AVE	2012, 2007, 2005, 1980, 1965, 1949, 1945, 1940, 1934, 1928
413 MEEKER AVE E	2012, 2007, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
416 MANHATTAN	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
417 MANHATTAN AVE	2012, 2007, 1997, 1985, 1980, 1976, 1934, 1928
417 MANHATTAN AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
419 MANHATTAN AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
419 MANHATTAN AVE	2012, 2007, 1980, 1940, 1934, 1928
41O7 MANHATTAN AVE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
422 MANHATTAN	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
424 MANHATTAN AVE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1945, 1940, 1934, 1928
428 MANHATTAN	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
428 MANHATTAN AVE	2012, 2007, 2005, 2000, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
6273 MANHATTAN AVE	2012, 2007, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

APPENDIX H

ASTM Questionnaire

Laurel Environmental Associates, Ltd.
53 West Hills Road, Suite 1
Huntington Station, NY 11746
631-673-0612
631-427-5323 fax
www.laurelenv.com

Description of Site: Address:

Residential Property
415 Manhattan Avenue
Brooklyn, NY

Question	Owner[7]			Occupants (if applicable)			Observed During Site Visit	
1a. Is the *property* used for an industrial use?	Yes	No	Unk	Yes	No	Unk	Yes	No
1b. Is any *adjoining property* used for an industrial use?	Yes	No	Unk	Yes	No	Unk	Yes	No
2a. Did you observe evidence or do you have any prior knowledge that the *property* has been used for an industrial use in the past?	Yes	No	Unk	Yes	No	Unk	Yes	No
2b. Did you observe evidence or do you have any prior knowledge that any *adjoining property* has been used for an industrial use in the past?	Yes	No	Unk	Yes	No	Unk	Yes	No
3a. Is the *property* used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No	Unk	Yes	No	Unk	Yes	No
3b. Is any *adjoining property* used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No	Unk	Yes	No	Unk	Yes	No
4a. Did you observe evidence or do you have any prior knowledge that the *property* has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No	Unk	Yes	No	Unk	Yes	No
4b. Did you observe evidence or do you have any prior knowledge that any *adjoining property* has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No	Unk	Yes	No	Unk	Yes	No
5a. Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the *property* or at the facility?	Yes	No	Unk	Yes	No	Unk	Yes	No

Question	Owner[7]			Occupants (if applicable)			Observed During Site Visit	
5b. Did you observe evidence or do you have any prior knowledge that there have been previously any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the *property* or at the facility?	Yes	No	Unk	Yes	No	Unk	Yes	No
6a. Are there currently any industrial *drums* (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?	Yes	No	Unk	Yes	No	Unk	Yes	No
6b. Did you observe evidence or do you have any prior knowledge that there have been previously any industrial *drums* (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?	Yes	No	Unk	Yes	No	Unk	Yes	No
7a. Did you observe evidence or do you have any prior knowledge that *fill dirt* has been brought onto the property that originated from a contaminated site?	Yes	No	Unk	Yes	No	Unk	Yes	No
7b. Did you observe evidence or do you have any prior knowledge that *fill dirt* has been brought onto the property that is of an unknown origin?	Yes	No	Unk	Yes	No	Unk	Yes	No
8a. Are there currently any *pits, ponds*, or *lagoons* located on the *property* in connection with waste treatment or waste disposal?	Yes	No	Unk	Yes	No	Unk	Yes	No
8b. Did you observe evidence or do you have any prior knowledge that there have been previously, any *pits, ponds*, or *lagoons* located on the *property* in connection with waste treatment or waste disposal?	Yes	No	Unk	Yes	No	Unk	Yes	No
9a. Is there currently any stained soil on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
9b. Did you observe evidence or do you have any prior knowledge that there has been previously, any stained soil on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
10a. Are there currently any registered or unregistered storage tanks (above or underground) located on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
10b. Did you observe evidence or do you have any prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) located on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
11a. Are there currently any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
11b. Did you observe evidence or do you have any prior knowledge that there have been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
12a. Is there currently evidence of leaks, spills or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?	Yes	No	Unk	Yes	No	Unk	Yes	No

Question	Owner[7]			Occupants (if applicable)			Observed During Site Visit	
12b. Did you observe evidence or do you have any prior knowledge that there have been previously any leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring drains, walls, ceilings or exposed grounds on the property?	Yes	No	Unk	Yes	No	Unk	Yes	No
13a. If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?	Yes	No	Unk	Yes	No	Unk	Yes	No
13b. If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?	Yes	No	Unk	Yes	No	Unk	Yes	No
14. Does the *owner* or *occupant* of the *property* have any knowledge of *environmental liens* or governmental notification relating to past or recurrent violations of environmental laws with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
15a. Has the *owner* or *occupant* of the *property* been informed of the past existence of *hazardous substances* or *petroleum products* with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
15b. Has the *owner* or *occupant* of the *property* been informed of the current existence of *hazardous substances* or *petroleum products* with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
15c. Has the *owner* or *occupant* of the *property* been informed of the past existence of environmental violations with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
15d. Has the *owner* or *occupant* of the *property* been informed of the current existence of environmental violations with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
16. Does the *owner* or *occupant* of the *property* have any knowledge of any *environmental site assessment* of the *property* or facility that indicated the presence of *hazardous substances* or *petroleum products* on, or contamination of, the *property* or recommended further assessment of the *property*?	Yes	No	Unk	Yes	No	Unk		
17. Does the *owner* or *occupant* of the *property* know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any *hazardous substance* or *petroleum products* involving the *property* by any owner or occupant of the *property*?	Yes	No	Unk	Yes	No	Unk		
18a. Does the *property* discharge waste water (not including sanitary waste or storm water) onto or adjacent to the *property* and/or into a storm water system?	Yes	No	Unk	Yes	No	Unk	Yes	No

Question	Owner[7]			Occupants (if applicable)			Observed During Site Visit	
18b. Does the *property* discharge waste water (not including sanitary waste or storm water) onto or adjacent to the *property* and/or into a sanitary sewer system?	Yes	No	Unk	Yes	No	Unk	Yes	No
19. Did you observe evidence or do you have any prior knowledge that any *hazardous substances* or *petroleum products*, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	Yes	No	Unk	Yes	No	Unk	Yes	No

Government Records/Historical Sources Inquiry

(See guide, Section 10)

21. Do any of the following Federal government record systems list the property or any property within the search distance noted below:

	Approximate Minimum Search Distance, miles (kilometers)		
Federal NPL site list	1.0 (1.6)	Yes	No
Federal CERCLIS list	0.5 (0.8)	Yes	No
Federal CERCLIS NFRAP site list	property and adjoining properties	Yes	No
Federal RCRA CORRACTS facilities list	1.0 (1.6)	Yes	No
Federal RCRA non-CORRACTS TSD facilities list	0.5 (0.8)	Yes	No
Federal RCRA generators list	property and adjoining properties	Yes	No
Federal ERNS list	property only	Yes	No

22. Do any of the following state record systems list the property or any property within the search distance noted below:

	Approximate Minimum Search Distance, miles (kilometers)		
State lists of hazardous waste sites identified for Investigation or remediation:			
State — Equivalent NPL	1.0 (1.6)	Yes	No
State — Equivalent CERCLIS	0.5 (0.8)	Yes	No
State landfill and/or solid waste disposal site lists	0.5 (0.8)	Yes	No
State leaking UST lists	0.5 (0.8)	Yes	No
State registered UST lists	property and adjoining properties	Yes	No

23. Based upon a review of *fire insurance maps* 10.3.1.3 or consultation with the local fire department serving the *property*, all as specified in the guide, are any buildings or other improvements on the *property* or on an *adjoining property* identified as having been used for an industrial use or uses likely to lead to contamination of the *property*? Yes No

The *preparer* of the *transaction screen questionnaire* must complete and sign the following. (For definition of “preparer” and “user,” see 5.3 or 3.3.28.)

The *Owner* questionnaire was completed by:

Name
Title
Firm
Address

Phone number
Date
Preparer's relationship to site
Preparer's relationship to user (for example, principal, employee, agent, consultant)

The *Occupant* questionnaire was completed by:

Name
Title
Firm
Address

Phone number
Date
Preparer's relationship to site
Preparer's relationship to user (for example, principal, employee, agent, consultant)

The *Site Visit* questionnaire was completed by:

Name Thomas H. Johansen
Title Geologist
Firm Laurel Environmental Associates, Ltd.
Address 53 West Hills Road, Suite 1, Huntington Station, NY 11746
Phone number 631 673 0612
Date April 15, 2013
Preparer's relationship to site none
Preparer's relationship to user (for example, principal, employee, agent, consultant)

The *Government Records* and *Historical Sources Inquiry* questionnaire was completed by:

Name Thomas H. Johansen
Title Geologist
Firm Laurel Environmental Associates, Ltd.
Address 53 West Hills Road, Suite 1, Huntington Station, NY 11746
Phone number 631 673 0612
Date
Preparer's relationship to site
Preparer's relationship to user (for example, principal, employee, agent, consultant)

User's relationship to the site (for example, owner, prospective purchaser, lender, etc.)

If the preparer(s) is different from the user, complete the following:

Name of User
User's address

User's phone number

Copies of the completed questionnaires have been filed at:

Copies of the completed questionnaires have been mailed or delivered to:

Preparer represents that to the best of the preparer's knowledge the above statements and facts are true and correct and to the best of the preparer's actual knowledge no material facts have been suppressed or misstated.

Signature _____ Date April 15, 2013
Signature _____ Date_____
Signature _____ Date_____

APPENDIX I

Personnel Qualifications

SCOTT A. YANUCK, C.E.I., C.E.S.

EDUCATION: STATE UNIVERSITY OF NEW YORK AT STONY BROOK
B.A., Earth and Space Sciences, December, 1987, Minor in Technology and Society.
M.Sc., Hydrogeology, May, 1993.Course work included classes in Geophysics, Chemical Hydrogeology, Organic Contaminant Hydrology, and Computer Modeling.

EXPERIENCE:

PRINCIPAL, MANAGING HYDROGEOLOGIST
LAUREL Environmental Associates, Ltd.

- Supervise all technical and financial operations of environmental consulting firm.
- Completed OSHA 40 Hour HAZWOPER Supervisors course, 8 Hour Refresher Courses.
- Geoprobe Systems Training on Direct Push Techniques including well installation and pump tests
- Completed ASTM Environmental Site Assessment training course for professionals.
- Completed NJDEPE UST Certification Program.
- Completed Mold Remediation Manage Course based on NYC DOH Guidelines
- NYSDOL Asbestos Inspector, #AH97-08528
- GSSI Certification in Ground Penetrating Radar

September, 1992-present

PROJECT MANAGER, GROUP SUPERVISOR: ENVIRONMENTAL SERVICES
Richard D. Galli, P.E., P.C.

In charge of Environmental Services Group. Scope of work within group includes the following:

- Phase I Environmental Assessments.
- Phase II Environmental Assessments.
- Groundwater Contamination Studies.
- Underground Storage Tanks (UST'S): testing, removal, closure.
- Underground Injection Well Closure (UIC)
- Hazardous Site Remediation.
- State Superfund RI/FS.
- Indoor Air Quality (IAQ) studies.

In addition to performing any of the above-mentioned work, personally responsible for project management, including project setup, project review and quality control/quality assurance of proposals and reports generated by the environmental group.

PROJECT MANAGER, HYDROGEOLOGY
Richard D. Galli, P.E., P.C.

Performed all aspects of numerous Phase I Environmental Assessments.

Performed and supervised Phase II and Phase III investigations and remediation. Duties included proposal writing, historical investigations, soil and water sampling, supervision of well drilling teams, supervision of remediation work, supervision of underground storage tanks removals, groundwater studies, and report writing.

Knowledgeable in Ground Water Computer Modeling with *canned* programs as well as developing new programs. Worked to set up a GIS based system capable of mapping CERCLA and NPL site, NYSDEC Spills and Inactive Hazardous Waste Sites, etc., to aid in performing Audits.

Certified: OSHA Forty Hour HAZWOPER Course, NIOSH 582.

TECHNICIAN, FIELD AND LABORATORY
Kemron Environmental Services, Inc.

Worked as an industrial hygienist, taking air and bulk samples, and performing Indoor Air Quality (IAQ) studies. As a Polarized Light Microscopist, analyzed bulk samples for asbestos. Analyzed samples from the *Gramercy Park steam pipe explosion* and was detailed to St. Croix for on site sampling and analysis at the Hess oil refinery during the cleanup of *Hurricane Hugo.* Also worked as GC/MS and HPLC technician.
June, 1989-July, 1990 full time, continuing part time to 1993.

CONSTRUCTION SUPERVISOR, DEVELOPER
SHY Building Corporation, Huntington, NY.

Managed land development and housing construction. Scheduling and supervision of all trades necessary. Duties included the following:

- Design of drainage structures
- Design of buildings/renovations
- Surveying in conjunction with road/drainage construction.
- Property acquisition.
- Submitted applications for subdivision, building permits, and sanitary/water permits to Town and County agencies.
- Supervision of UST installations.
- Geotechnical and environmental inspections of properties/building sites.
- Energy efficient building design and implementation.

AFFILIATIONS

Air & Waste Management Association
American Institute of Professional Geologists
American Society for Testing and Materials
    Active Committee Member E-40, Subsurface Investigations
    Active Committee Member E-50, Environmental Assessment
    Active Committee Member E-50.1, Underground Storage Tanks
Environmental Assessment Association, Certified Environmental Inspector and Specialist, #12200.
Hazardous Materials Control Resources Institute
Huntington Chamber of Commerce
Huntington Historical Society
Long Island Association
Long Island Builders Institute
Long Island Geologists
National Fire Protection Association
National Ground Water Society
New York State Council of Professional Geologists
US Green Building Councel

CARLA M. SULLIVAN, C.E.S

EDUCATION

BS GEOLOGY, January 1998. **Cum Laude**

EXPERIENCE:

SENIOR GEOLOGIST, Laurel Environmental Associates, Ltd., Huntington, NY November 1997 – present.

- Project Manager
- Certified Environmental Specialist
- Phase I Environmental Site Assessments
- Phase II Soil and Groundwater Sampling and Analysis Reports.
- Supervises and writes Remediation/Phase III and Analysis
- Geotechnical reports, class V injection well closure plans and RI/FS workplan for regulatory agency approval
- Groundwater Contamination Studies.
- Underground Storage Tanks (UST'S): testing, removal, closure
- Underground Injection Well Closure (UIC)
- Hazardous Site Remediation.

In addition to performing any of the above-mentioned work personally, responsible for project management, including project setup, project review and quality control/quality assurance of proposals and reports

FIELD SKILLS:

- Completed OSHA 40 HOUR HAZWOPER with confined space, 8 Hour Refresher Courses to current.
- State of New Jersey Department of Environmental Protection Subsurface Inspection, License #483291
- Supervises drilling and installation of groundwater monitoring wells, drilling of borings, UST removals, geotechnical drilling, leaching pool "super sucker" remediation, ground penetrating radar survey.
- Performs split spoon soil sampling, groundwater monitoring well installation, purging & sampling, soil-vapor sampling, UST sampling & registration, dye trace & floor drain closure, magnetometer survey
- Experience with PID, hand auger, soil-vapor probe, soil dredge sampler, magnetometer, pH meter.

ACTIVITIES:

- Member of the National Honorary Society in the Earth Sciences Sigma Gamma Epsilon
- Member of the National Society of Research for Professionals 5 Sigma Xi
- Member of the National Honor Society C. W. Post Chapter Phi Beta Kappa
- Member of the Geological Society of America
- Member of New York State Paleontological Society
- Member of the American Natural History Museum
- Member of Sierra Club
- Member of the National Geographic Society

AFFILIATIONS

- American Institute of Professional Geologists
- Environmental Assessment Association, Certified Environmental Inspector and Specialist
- Huntington Historical Society
- Oyster Bay Historical Society
- Long Island Association
- Long Island Professional Geologists Association
- New York State Council of Professional Geologists

BRIAN C MCCABE

EDUCATION: STATE UNIVERSITY OF NEW YORK AT STONY BROOK
B.S, Geology, September, 1991, Minor in Marine Science.
M.Sc., Hydrogeology, Pending. Course work included classes in Geophysics, Chemical Hydrogeology, Organic Contaminant Hydrology, and Bio-Remediation.

EXPERIENCE:

SENIOR GEOLOGIST
LAUREL Environmental Associates, Ltd.

- Phase I Environmental Site Assessments.
- Phase II Environmental Assessments.
- Groundwater Contamination Studies.
- Underground Storage Tanks (UST'S): testing, removal, closure.
- Underground Injection Well Closure (UIC)
- Hazardous Site Remediation.
- Completed OSHA 40 Hour HAZWOPER Supervisors course, 8 Hour Refresher Courses.
- Completed ASTM Environmental Site Assessment training course for professionals.

January, 2012-present

PROJECT MANAGER, DEPARTMENT MANAGER: PROFESSIONAL SERVICES
Fenley & Nicol Environmental Inc.

In charge of Environmental Services Group. Scope of work within group includes the following:

- Phase I Environmental Assessments.
- Phase II Environmental Assessments.
- Groundwater Contamination Studies.
- Underground Storage Tanks (UST'S): testing, removal, closure.
- Underground Injection Well Closure (UIC)
- Hazardous Site Remediation.
- Construction and operation of remediation system.

In addition to performing any of the above-mentioned work, personally responsible for project management, of professional staff project, which, included review of proposals and reports generated by the professional service department.

Certified: OSHA Forty Hour HAZWOPER Course
Preston Groundwater Remediation Course
ASTM 1527-05 Environmental Site Assessment training course
Waterloo, Groundwater modeling I training course
Exxon-Mobil, LPS training
LIRR Track Safety training

September, 1997-July, 2012

FIELD TECHNICIAN, AND LABORATORY SUPERVISER
Kemron Environmental Services, Inc.

FIELD TECHNICIAN – Collected waste water and Indoor Air Quality (IAQ) samples.
LABORATORY SUPERVISER, - Supervised and performed the analysis of asbestos air and bulk samples utilizing Phase Contrast and Polarized Light Microscopist, Performed on-site sampling and analysis of asbestos air and bulk samples at the Hess oil refinery in St. Croix during the cleanup of *Hurricane Hugo.* Also worked as GC/MS and HPLC technician. Perform air, bulk and water analysis for metals utilizing ICP and Flame AA instrumentation.
Part time from February 1990-May 1991
Full time from May 1991-September 1997

AFFILIATIONS

Long Island Geologists
United States Coast Guard Auxiliary

THOMAS H. JOHANSEN

EXPERIENCE

Geologist, Laurel Environmental Associates, Ltd., Huntington, NY
August 2008 – Present

- Phase I Environmental Site Assessments
- Phase II Subsurface Soil, Soil Vapor, and Groundwater Investigations
- Remediation/Phase III projects and reports
- Sub-Slab Soil Vapor and Indoor Air Quality (IAQ) studies
- Groundwater Quality Investigations
- Underground Injection Well Closure (UIC)
- Underground Storage Tank (UST) removals, abandonments, and spill closures
- Hazardous site remediation

FIELD SKILLS:

- Performs various methods of soil, soil vapor and groundwater sampling
- Experienced with truck-mounted, track mounted and portable Geoprobe® machines and tooling
- Supervises ground penetrating radar, magnetic and utility surveys
- Supervises leaching pool remediation
- Performs and supervises direct push and hollow stem auger monitoring well installation
- Experienced with various field screening and monitoring equipment such as Photo Ionization Detector and water quality instruments
- Experienced with magnetic and pipe locating equipment
- Completed OSHA 40-Hour HAZWOPER Training program, 8 Hour Refresher Courses to current.

EDUCATION

BS Geology, May 2008.

- Hofstra University, New York

RELATED COURSES

- Environmental Science I, Geology I & II, Hydrogeology, Petrography, GeoChemistry, Cartography, Sedimentation, Stratigraphy, Chemistry I & II, Physics I & II, Biology, Computer Science I, Calculus I & II.

CHRISTOPHER J. CONNOLLY

EDUCATION

BSc Music Technology and Audio Systems Design, May 2008

- University of Derby, Derbyshire, United Kingdom

RELATED COURSES

- Acoustics, Auditory Perception and Psychoacoustics, Micro-electronics, Sound Reinforcement, Electronic Communications Technology, C/C++ Programming, Quantitative Methods.

EXPERIENCE

Environmental Consultant, Vibrock Limited, Heanor, Derbyshire, United Kingdom
September 2008 – April 2010

- Conducted Occupational Personal Noise and Dust Monitoring
- Conducted Environmental Compliance Noise and Dust Monitoring
- Produced technical reports based on monitoring sessions

Environmental Scientist, Laurel Environmental Associates, Ltd., Huntington, NY
December 2010 – Present

- Assists in visual inspections of Phase I & II Environmental Site Assessments
- Writes Transaction screen and Phase I Environmental Site Assessments
- Assists in Phase II site operations

FIELD SKILLS:

- Assists in various methods of soil and groundwater sampling, groundwater monitoring, well purging & sampling.
- Assists with truck-mounted, track-mounted and portable Geoprobe® machines and tooling.
- Assists with ground penetrating radar, magnetic and utility surveys.
- Supervises leaching pool remediation.
- Completed OSHA 24-Hour HAZWOPER Training program
- Has conducted Nuisance Noise and Excessive Vibration monitoring assessments.
- Assists in air quality and dust sampling in residential and commercial spaces.
- Assists in environmental remediation projects.
- Experience with various forms of noise monitoring equipment such as; Casella and Cirrus Sound Level Meters, and Personal Dosimeter badges, personal and environmental particulate dust monitoring apparatus, such as; personal air flow pumps, cyclone filter heads, filters and weighing balance.
- Working knowledge of the aggregate industry including; Quarrying practices, machinery and equipment and concrete, asphalt and block production methods.
- Knowledge of noise and dust suppression, protection and reduction methods including; Personal Protective Equipment (hearing protection and dust masks), dust extraction, acoustic dampening and general safe work practices.

THE MANHATTAN

BROOKLYN, NEW YORK

Remedial Investigation Report

E-Designation Number: 13EH-A491K

Prepared for:

Chris Ceiliepk

415 Manhattan Avenue Realty Inc

6065 69th Lane

Maspeth, New York 11379

Prepared by:

Laurel Environmental

53 West Hills Road

Huntington Station, New York 11746

631 673 0612

August/2013

REMEDIAL INVESTIGATION REPORT
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1.0 Site Location Map

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4.0 Site Sketch with Sampling Locations

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APPENDICES

A. *LEA* Phase 1 Report, April 7, 2013

B. Redevelopment Plans

C. Health and Safety Plan

D. Soil Boring Geologic Logs

E. Soil and Groundwater Raw Laboratory Data

F. Soil Vapor Raw Laboratory Data

LIST OF ACRONYMS

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

CERTIFICATION

I, Scott Yanuck, 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 Manhattan, (NYC VCP Site No. site number: 13EH-A491K). 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 August 26, 2013 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 415 Manhattan Avenue in the Greenpoint section in Brooklyn, New York and is identified as Block 2723 and Lot 30 on the New York City Tax Map. Figure 1.0 shows the Site location. The Site is 2,500-square feet in area and is bounded by Manhattan Avenue to the east, commercial and residential dwellings to the north, south and west. A map of the site boundary is shown in Figure 3.0. Currently, the Site is used for multi-family residential uses and contains one (1) two-story walk-up concrete block and brick residential structure with a rear yard.

Summary of Proposed Redevelopment Plan

The new construction will encompass the entire lot (2,500 square feet in area) and will consist of a six-story multi-family residential apartment building with a below ground parking garage and main foyer. There will be a cellar 5’ 11” in depth with an elevator shaft located on the north side of the Subject Property. The parking garage, located on the west side of the property, will be excavated to a total depth of 19’ 2” below grade, and will be constructed as a closed-in structure, with the entrance located on the east side of the property facing Manhattan Avenue. The layout of the proposed site development is presented in Figure 5.0. 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

The Subject Property has been used for residential purposes since construction circa 1887.

On April 7, 2013 Thomas Johansen, a ***LEA*** Geologist and Site inspector conducted an on-site investigation of the Subject Property. The Subject Property maintains one (1) two-story walk-up three-family residential dwelling. The building has a footprint of approximately 800 square feet and is situated on a parcel approximately 2,500 square feet in area. The building was constructed

circa 1887 for residential purposes and fronts along Manhattan Avenue. The site is relatively flat, covered with the building, a mostly unpaved rear yard, concrete sidewalks and a side fire egress. Due to the age of the building, lead based paint may be present within the Subject Building. The majority of painted surfaces were being re-painted during ***LEA's*** inspection and were observed to be in excellent condition. No fill ports and/or vent pipes, which indicate the presence of underground storage tanks or aboveground storage tanks, were noted during our site investigation. The site is listed twice as an E-Designation site: E-138 Hazmat for underground gasoline storage tanks testing protocol and E-138-Air for operable window limitations. Both E-Designation listings were issued on May 11, 2005.

Summary of the Work Performed under the Remedial Investigation

Laurel Environmental Associates, Ltd. (LEA) performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed three soil borings across the entire project Site, and collected five soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells at strategic locations at the Site and collected three groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed three soil vapor probes around Site perimeter and collected three samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is fourteen feet.
2. Depth to groundwater ranged from 6.55 ft. below ground surface (bgs) to 6.43 ft. bgs at the Site.
3. Groundwater flow is generally from southeast to northwest beneath the Site.
4. Depth to bedrock is unknown at the Site, but is not expected to be encountered during construction activities.

5. The stratigraphy of the site, from the surface down, consists of at least twelve feet of well graded sands.

6. Soil/fill samples collected during the RI showed no detectable concentrations of PCBs. One Volatile Organic Compound (VOC), Acetone was detected (max. of 130 ppb) above Unrestricted Use Soil Cleanup Objectives (SCOs) in two of three soil borings. Trace levels of 2-Butanone and methylene chloride were detected in all samples, however, none exceeded Unrestricted Use SCOs. Several Semi-Volatile Organic Compounds (SVOCs) including; Acenaphthene (52,800 ppb), Benzo (a) anthracene (max of 97,200 ppb), Benzo (a) Pyrene (max of 102,000 ppb), Benzo (b) fluoranthene (max of 63,500 ppb), Benzo (k) fluoranthene (max of 117,000 ppb), Chrysene (max of 91,100 ppb), Dibenzo (a,h) anthracene (max of 26,000 ppb), Fluoranthene (184,000 ppb), Fluorene (39,100 ppb), Indeno (1,2,3-cd) pyrene (max of 46,700 ppb), Naphthalene (59,300 ppb), Phenanthrene (189,000 ppb), and Pyrene (150,000 ppb) were detected above their respective Unrestricted Use SCOs in two shallow soil samples. Of these compounds, Benzo (a) anthracene, Benzo (a) Pyrene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Fluoranthene, Indeno (1,2,3-cd) pyrene, Phenanthrene, and Pyrene also exceeded their Restricted Residential Use SCOs. Two pesticides including 4,4-DDE (max. of 11.1 ppb) and 4,4-DDT (max. of 11.3 ppb) were detected above their respective Unrestricted Use SCOs. Metals including; Arsenic, Barium, Cadmium, Chromium trivalente, copper, lead, magnesium, selenium, and zinc were detected above Unrestricted Use SCOs. Of these metals, Arsenic (max of 22.6 ppm), Barium (469 ppm), Cadmium (6.18), Copper (max of 2,800), Lead (max of 3,700), and Zinc (max of 4,890) were also detected above Restricted Residential Use SCOs. Most of metal exceedances were in shallow soils. High concentrations of PAH compounds indicates a hotspot area.

7. Groundwater samples collected during the RI showed no detectable PCBs, or pesticides. The only VOC detected was Acetone at low concentrations. Several SVOCs and Metals were detected in the groundwater samples collected from the site, but at levels well below NYSDEC 6NYCRR Part 703.5 Groundwater Quality Standards (GQS).

8. Soil vapor samples collected during the RI showed a wide variety of petroleum related and chlorinated VOCs at low concentrations. Tetrachloroethylene (PCE) was identified in one soil vapor sample at a maximum concentration of 0.28 ug/m^3. The PCE concentrations are all below the monitoring level ranges established within the State DOH soil vapor guidance matrix. TCE, 1,1,1-TCA and carbon tetrachloride were not detected in any of soil vapor samples.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Chris Cielepak has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 2,500 square foot site located at 415 Manhattan Avenue in the Greenpoint section of Brooklyn, New York. Residential use is proposed for the property. The RI work was performed between June 25, 2013 and July 2, 2013. 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 415 Manhattan Avenue in the Greenpoint section in Brooklyn, New York and is identified as Block 2723 and Lot 30 on the New York City Tax Map. Figure 1.0 shows the Site location. The Site is 2,500-square feet in area and is bounded by Manhattan Avenue to the east, commercial and residential dwellings to the north, south and west. A map of the site boundary is shown in Figure 3.0. Currently, the Site is used for multi-family residential uses and contains one (1) two-story walk-up concrete block and brick residential structure with a rear yard.

1.2 Proposed Redevelopment Plan

The new construction will encompass the entire lot (2,500 square feet in area) and will consist of a six-story multi-family residential apartment building with a below ground parking garage and main foyer. There will be a cellar (5’ 11” in depth) with an elevator shaft located on the north side of the Subject Property. The parking garage, located on the west side of the property, will be excavated to a total depth of 19’ 2” below grade and will be constructed as a closed-in structure with the entrance located on the east side of the property facing Manhattan Avenue. Layout of the proposed site development is presented in Appendix B. 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

Surrounding properties are residential and commercial in nature. Adjoining to the north is a non-descript commercial building. Adjoining to the south is a non-descript commercial building. Adjoining to the west are residential dwellings. Adjoining to the east is Manhattan Avenue and non-descript auto repair facilities. The sole nearby sensitive receptor is a Williamsburg Charter School located approximately 300-feet northwest.

Figure 5.0 shows the nearby sensitive receptors.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The Subject Property has been used for residential purposes since construction circa 1887.

2.2 Previous Investigations

No previous investigation was made available to Laurel Environmental Associates.

2.3 Site Inspection

On April 7, 2013, Thomas Johansen, a ***LEA*** Geologist and Site Inspector conducted the on-site investigation of the Subject Property. The Subject Property maintains one (1) two-story walk-up three-family residential dwelling. The building has a footprint of approximately 800 square feet and is situated on a parcel approximately 2,500 square feet in area. The building was constructed circa 1887 for residential purposes and fronts along Manhattan Avenue. The site is relatively flat, covered with the building, a mostly unpaved rear yard, concrete sidewalks and a side fire egress. Due to the age of the building, lead based paint may be present within the Subject Building. The majority of painted surfaces were being re-painted during ***LEA's*** inspection and were observed to be in excellent condition. No fill ports and/or vent pipes, which indicate the presence of underground storage tanks or aboveground storage tanks, were noted during our site investigation. The site is listed twice as an E-Designation site: E-138 Hazmat for underground gasoline storage tanks testing protocol and E-138-Air for operable window limitations. Both E-Designation listings were issued on May 11, 2005.

2.4 Areas of Concern

The AOCs identified for this site include:

1. Former USTs. Based upon the age of the building, heat was most likely supplied by coal prior to conversion to either an oil-fired system or natural gas.

2. E-Designations 138 for Hazmat and Air. Historically Olk Co. was adjoining to the south and, according to the NYCOER, is the source of this listing.

Phase 1 Report is presented in Appendix A. A map showing areas of concern is presented in Figure 4.0.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Scott A. Yanuck

3.2 Health and Safety

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

3.3 Materials Management

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

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Laurel Environmental Associates, Ltd. (LEA) performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.).
2. Installed three soil borings across the entire project Site, and collected five soil samples for chemical analysis from the soil borings to evaluate soil quality.
3. Installed three groundwater monitoring wells a strategic locations at the Site and collected three groundwater samples for chemical analysis to evaluate groundwater quality.
4. Installed three soil vapor probes around Site perimeter and collected three samples for chemical analysis.

4.1 Geophysical Investigation

As per a meeting with OER, no geophysical survey was deemed necessary at the subject property.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

Soil borings were installed at three boring locations at twelve (12) feet below grade at three predetermined locations, selected with input from OER on May 22, 2013. Using a Geoprobe 420M drill rig (utilized instead of the larger track rig due to access limitations), samples were collected utilizing 1.5” rods and macro-core sampling technology. The collected samples were cut open, photographed, field-screened by visual, olfactory and calibrated PID, and logged, prior to placing in sample containers. Soils from 0-8 foot depth were generally brown to dark brown, well graded rocky sands. Soils from the 8-12 foot range consisted of wet dark brown silty sands with a boggy odor. Groundwater was encountered at approximately 7-8 ft. bgs. Visual and olfactory field screening found no evidence of contamination, and 0.0ppm was registered on the PID for all samples.

Boring logs were prepared by a geologist and are attached in Appendix D. A map showing the location of soil borings and monitor wells is shown in Figure4.0

Groundwater Monitoring Well Construction

Three temporary pre-pack monitoring wells were installed at boring locations SB-1, SB-2, and SB-3. Groundwater samples were collected from each well (designated GW-1, GW-2, and GW-3) using an inertial pump consisting of a stainless steel check valve and ball. The screen interval was set at 6 to 11 feet.

Monitoring well locations are shown in Figure 3.0.

Survey

Soil borings and monitoring wells are identified on a site sketch (Figure 3.0), utilizing an aerial photograph, overlaid with a technical diagram constructed by ***LEA***.

Water Level Measurement

Groundwater levels were measured utilizing a Solinst model 102 Water Level Meter. Measurements were taken from the north point of each monitoring well.

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, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Soil samples were collected using a 1.5” Geoprobe macro-core sampling rods. A new liner is utilized for each 4-foot sampling interval. The rods and cutting shoes are decontaminated between boreholes using Alconox and rinsed with fresh water. One duplicate soil sample was collected as part of the required QA/QC protocol.

Five 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 Table 2.0. Figure 4.0 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Disposable polyethylene tubing was used in conjunction with an inertial pump to collect the groundwater sample, so no decontamination was necessary. Since the well was a pre-pack well which was installed and developed the same day, no additional purging was necessary.

Three groundwater samples were collected for chemical analysis during this RI. Groundwater sample collection data is reported in Table 2.0. Figure 4.0 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

A GeoProbe 420M was utilized to set soil vapor points at seven feet below grade, a depth just below the base of the proposed building slab. Once the sampling points were set in glass bead and sealed with bentonite above, a helium tracer gas was applied using the recommended bucket apparatus and a helium detector was used to confirm a sufficient seal at the surface.

Three soil vapor probes were installed and three soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 4.0. Soil vapor sample collection data is reported in Table 3.0. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

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 directed by Scott Yanuck
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was York Analytical Laboratories, Inc., (NYS ELAP License #10854)

Chemical Analytical Methods	Soil 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); 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 2.0, 3.0 and 4.0. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix E and F.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Kings County is located in the Atlantic Coastal Plain physiographic province that is characterized by low hills of unconsolidated sands, gravel, and silt. According to Franke (1972), regionally, the near-surface sediments consist of the Upper Glacial deposits that are characterized by southward sloping deposits of sand, gravel, and silt. The Upper Glacial deposits have a maximum thickness of 600 feet. They are underlain by the Magothy, Raritan, and Lloyd Formations. The Gardeners clay and the Jameco gravel separate the Upper Glacial deposits and the Magothy Formation along the southwest portion of Long Island. Due to less surfacial contamination and higher well yields, the Magothy aquifer is the main supply for drinking and industrial water. Consequently, the USEPA has identified it as a Sole Source Aquifer. The Subject Site is in the Upper Glacial aquifer. Pump test data suggests hydraulic conductivity between the Magothy and Upper Glacial aquifers. However, discontinuous clay lenses may prevent this interaction in some areas.

According to the United States Department of Agriculture Soil Survey Classification and Nomenclature System, this soil would likely be referred to as Urban Land, because the original composition and structure of the soil has been significantly altered by urbanization and development activities. Based on groundwater contour maps obtained from the United States Geological Survey, regional ground water flows in a northwesterly direction.

Stratigraphy

The site soils consist of approximately 4-5 feet of rocky sands and historical fill material followed by a mixture of silty sands.

Hydrogeology

According to groundwater contour maps provided by the NYSDEC, Topographic Quadrangles provided by the USGS, and previous work performed by ***LEA*** in the area, the Subject Property has an elevation of approximately 17 feet above mean sea level. Regional groundwater is estimated to be 6 feet below grade at the Subject Property and flowing in a northwesterly direction, towards the East River.

The average depth to groundwater is 6.49 ft. bgs and the range in depth is 6.43 to 6.55 bgs. Groundwater flow is from southeast to northwest.

5.2 Soil Chemistry

Soil/fill samples collected during the RI showed elevated levels of the Volatile Organic Compounds (VOCs) Acetone (typically a laboratory contaminant) at the 10-12' depth range from SB-1 and SB-2 at 130ppb and 57 ppb, respectively. Otherwise, few VOCs were detected in the samples and all were well below the NYSDEC Part 375 Unrestricted Use (Track 1) Soil Cleanup Objectives.

No chlorinated solvents (PCE, TCE, TCA or Carbon Tetrachloride) were detected in the samples collected from the Site. The Pesticides, 4,4-DDE (max 11.1ppb) and 4,4-DDT (max 11.3) were detected in SB-2 (0-2') and SB-3 (6'-8') at concentrations above the NYSDEC Part 375 Unrestricted Use (Track 1) Soil Cleanup Objectives.

Samples collected from 0-2 feet below grade showed elevated levels of several Semi-Volatile Organic Compounds (SVOCs) at concentrations exceeding their respective NYSDEC Track 1 Soil Cleanup Objectives, including; Acenaphthene (max 52,800ppb), Benzo (a) anthracene (max 97,200 ppb), Benzo (a) Pyrene (max 102,000 ppb), Benzo (b) fluoranthene (max 63,500 ppb), Benzo (k) fluoranthene (max 117,000 ppb), Chrysene (max 91,100 ppb), Dibenzo (a,h) anthracene (max 26,000 ppb), Fluoranthene (max 184,000 ppb), Fluorene (max 39,100 ppb), Indeno (1,2,3-cd) pyrene (46,700 ppb), Naphthalene (max 59,300 ppb), Phenanthrene (max 189,000 ppb), Pyrene (max 150,000 ppb).

Several metals were detected in the samples collected from the Site. Arsenic was detected in two of the five samples collected (max 22.6 ppm). Barium was detected in SB-1 (0-2') at 469ppm. Cadmium was detected in SB-1 and SB-2 (max 6.18ppm). Chromium was detected in all the samples collected (max 20.9ppm) Copper was detected in SB-1 and SB-2 (max 2,800ppm). Lead was detected in all the samples (max 3,700ppm). Magnesium was detected in SB-1 at 1,999ppm. Selenium was detected in SB-1 at 4.19ppm. Zinc was detected in SB-1 and SB-2 (max 4,890ppm).

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed

on soil samples is included in Table 1.0. Figure 4.0 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Soil Cleanup Objectives.

5.3 Groundwater Chemistry

The results of chemical testing of groundwater at the Site are as follows:

Several VOCs were detected in the groundwater samples collected from the site but at levels well below the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

Several SVOCs were detected in the groundwater samples collected from the site but at levels well below the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

Several Heavy Metals (filtered and unfiltered) were detected in the groundwater samples collected from the site but at levels well below the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 2.0. Exceedence of applicable groundwater standards are shown.

Figure 4.0 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

Soil vapor samples collected during the RI showed a wide variety of VOCs at low concentrations, while no standards exist for soil vapor, no compounds exceed the Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Final October 2006). Based on the low levels of VOCs the installation of a vapor barrier is not warranted at the Subject Site.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 3.0.

Figure 13 shows the location and posts the values for soil vapor samples with detected concentrations.

5.5 Prior Activity

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

5.6 Impediments to Remedial Action

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

Site-Specific Standards, Criteria and Guidance

- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes
- 6 NYCRR Part 375 - Inactive Hazardous Waste Disposal Sites
- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)
- STARS #1 - Petroleum-Contaminated Soil Guidance Policy
- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations
- Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (October 1994)
- Technical Guidance for Screening Contaminated Sediments (January 1999)
- NYSDOH Indoor Air Sampling & Analysis Guidance (August 8, 2001 or subsequent update)
- NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (draft October 2004 or subsequent final draft)
- DER Interim Strategy for Groundwater Remediation at Contaminated Sites in New York State
- 6 NYCRR Part 612 - Registration of Petroleum Storage Facilities (February 1992)
- 6 NYCRR Part 613 - Handling and Storage of Petroleum (February 1992)
- 6 NYCRR Part 614 - Standards for New and Substantially Modified Petroleum Storage Tanks (February 1992)
- 40 CFR Part 280 - Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks

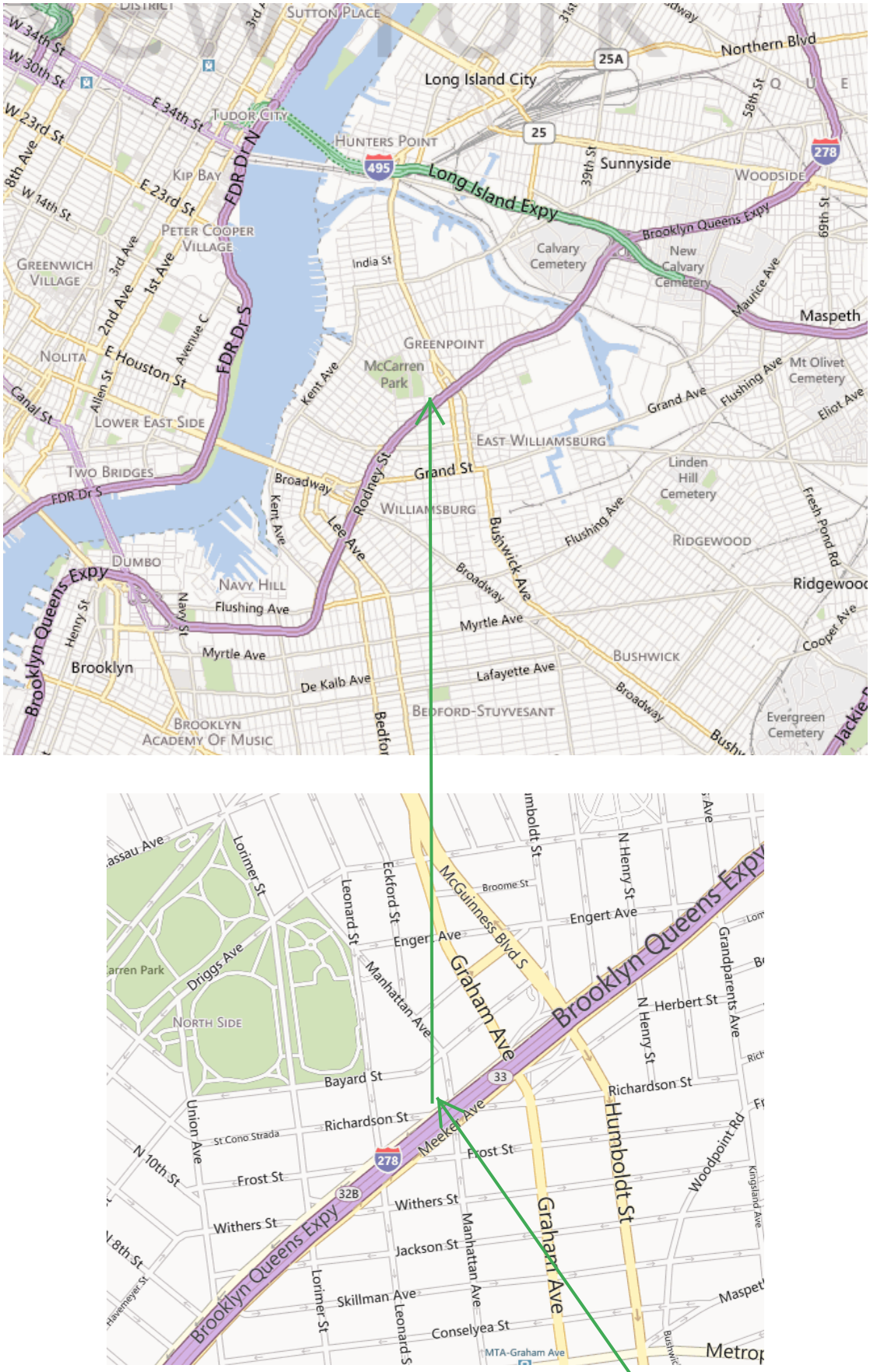


Figure 1.0 Site Location
415 Manhattan Avenue
Brooklyn, New York

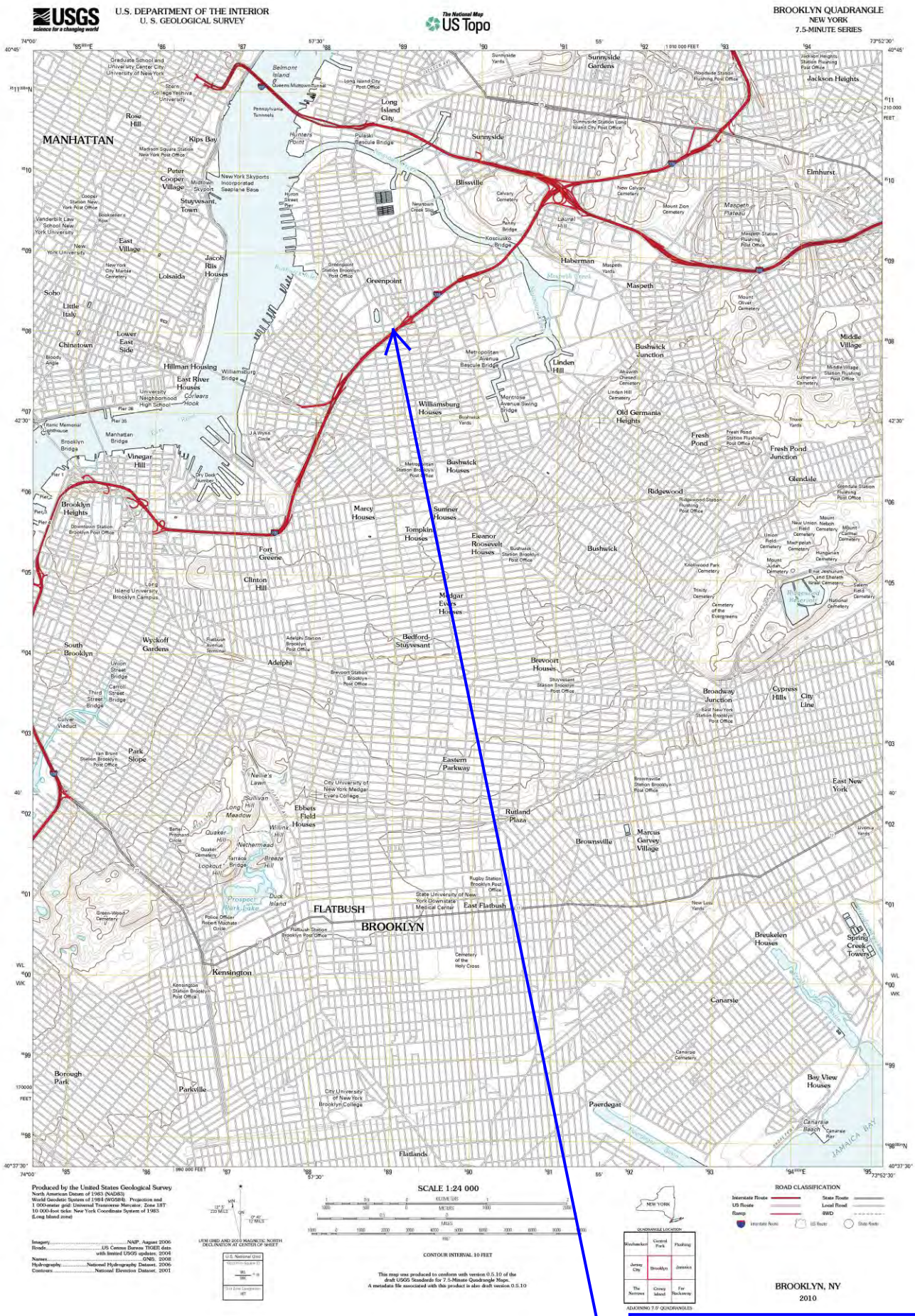
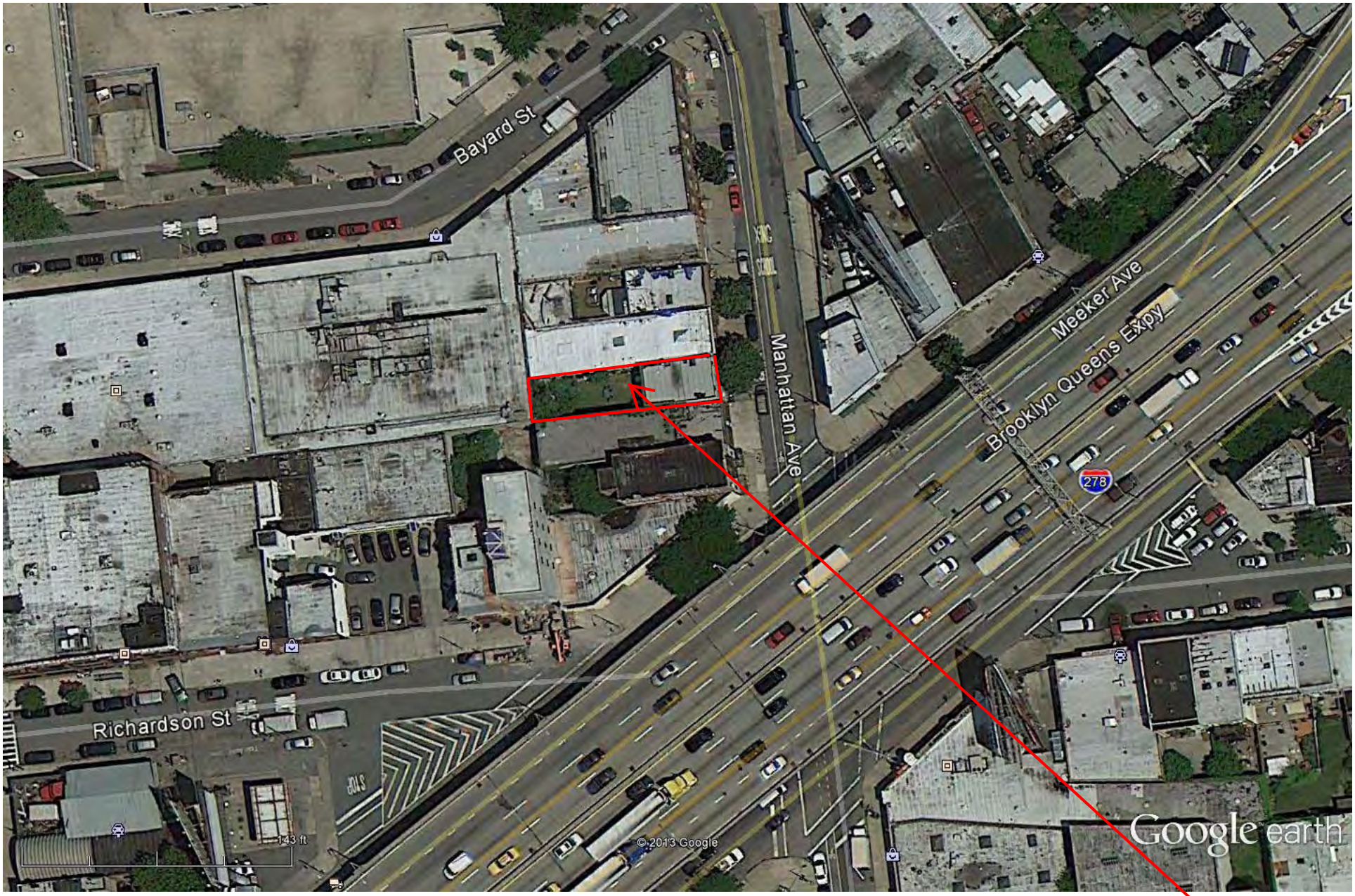


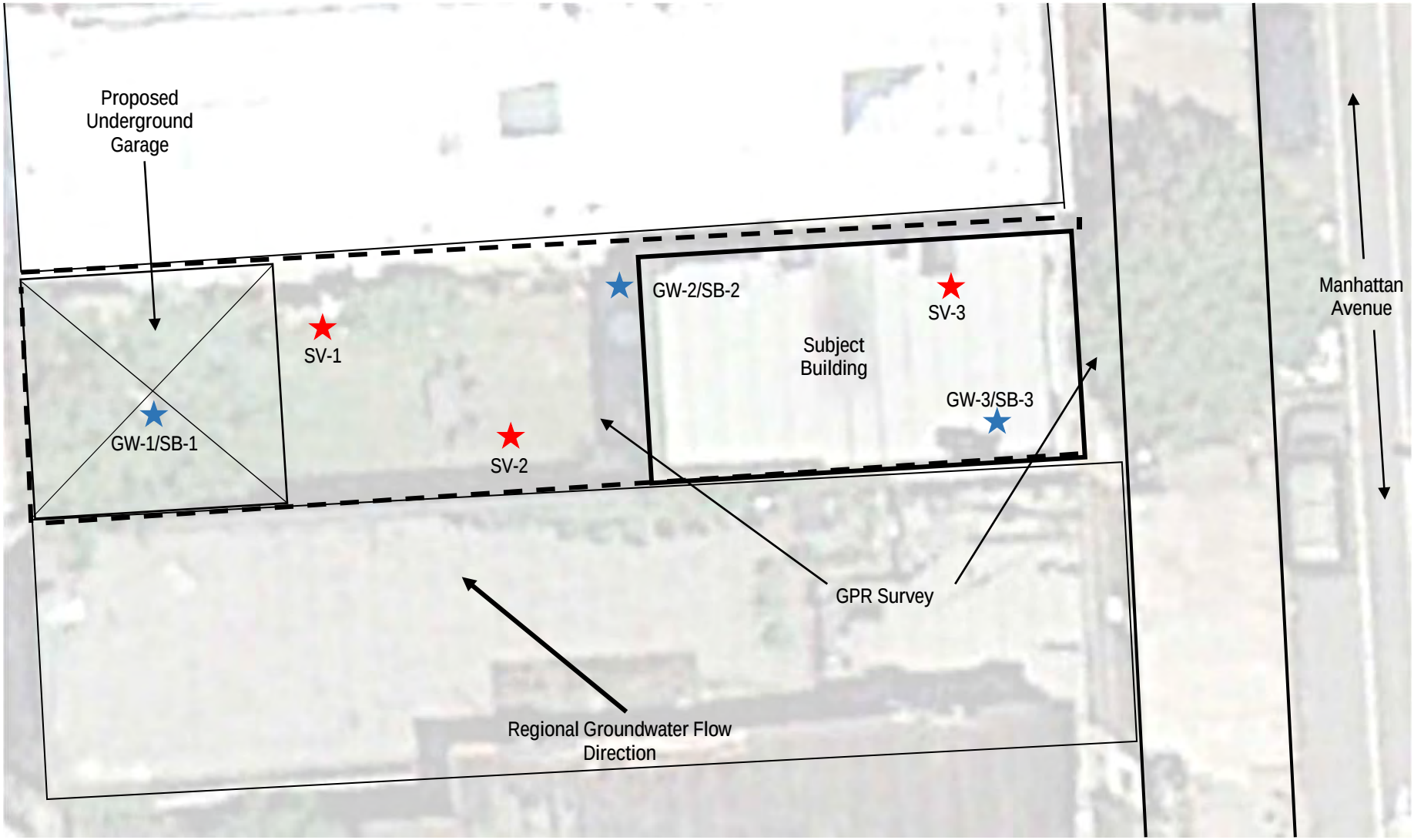
Figure 2.0 Current Topographic Map
415 Manhattan Avenue
Brooklyn, New York



feet 400

meters 100

Figure 3.0 Aerial Photograph
415 Manhattan Avenue
Brooklyn, New York



Laurel
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FAX: 631-427-5323

FIGURE 4.0
SITE SKETCH
WITH
SAMPLING LOCATIONS

415 MANHATTAN AVENUE
BROOKLYN, NEW YORK 11222

PROJECT #: 12-409

DRAWING DATE: 4-17-2013

DRAWN BY: THJ

CHECKED BY:

REVISIONS: 6-5-2013

N

NOT TO SCALE

LEA makes no guarantees as to the accuracy of this drawing and it should only be used for informational purposes.

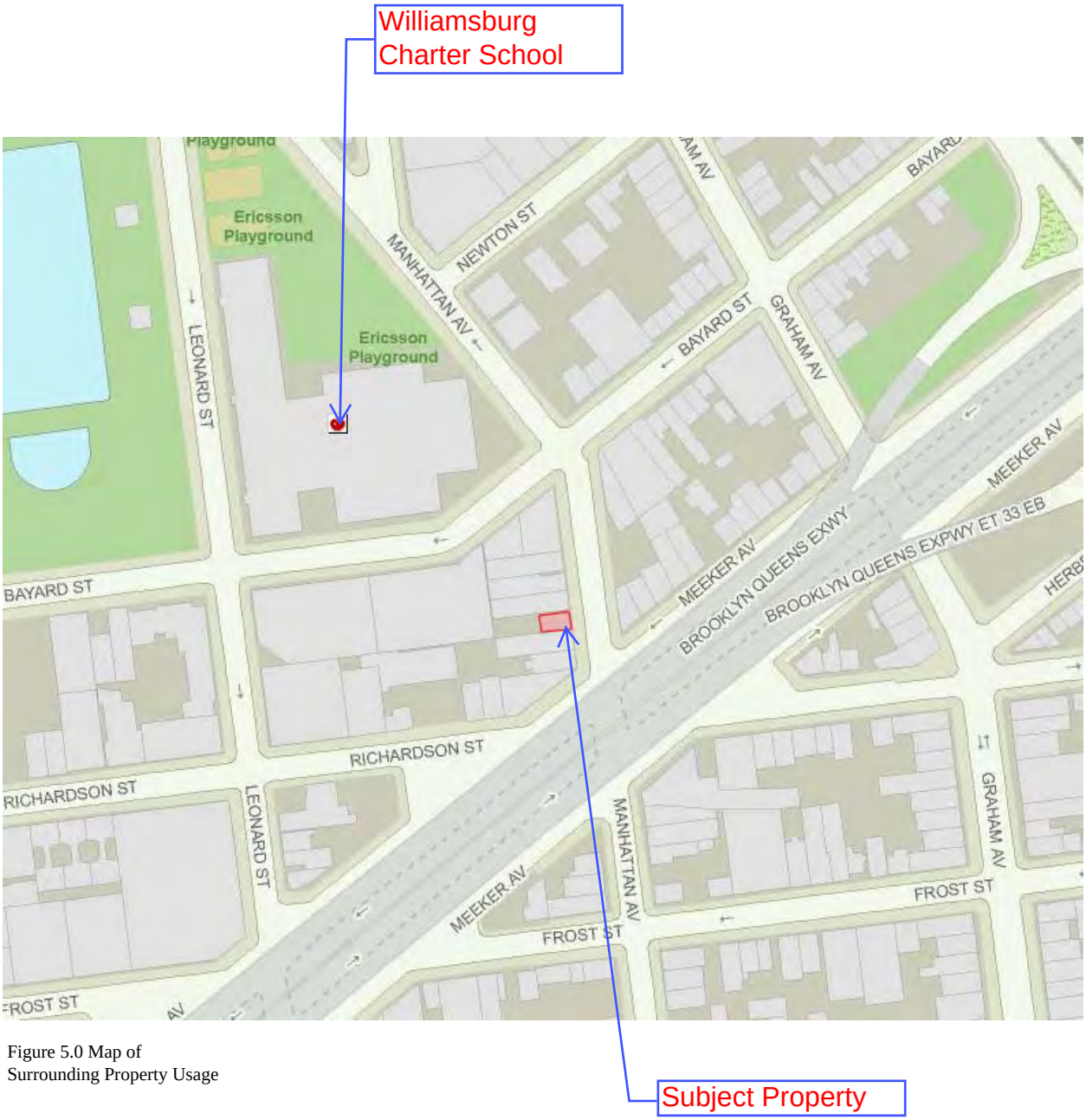

Figure 5.0 Map of
Surrounding Property Usage

SampleID YorkID Sampling Date DilutionFactor ClientMatrix RptUnits		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Commercial Soil mg/Kg	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Protection of GW Soil mg/Kg	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Industrial Soil mg/Kg	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential Soil mg/Kg	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential Soil mg/Kg	SB-1 (0-2') 13F0911-01 6/25/2013 9:45:00 AM 10 Soil mg/kg dry	
Compound	**CASNumber**						**Result**	**Q**
Volatile Organics, 8260 List		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	
1,1,1,2-Tetrachloroethane	630-20-6	~	~	~	~	~	0.0063	U
1,1,1-Trichloroethane	71-55-6	500	0.68	1000	100	100	0.0063	U
1,1,2,2-Tetrachloroethane	79-34-5	~	~	~	~	~	0.0063	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	76-13-1	~	~	~	~	~	0.0063	U
1,1,2-Trichloroethane	79-00-5	~	~	~	~	~	0.0063	U
1,1-Dichloroethane	75-34-3	240	0.27	480	19	26	0.0063	U
1,1-Dichloroethylene	75-35-4	500	0.33	1000	100	100	0.0063	U
1,1-Dichloropropylene	563-58-6	~	~	~	~	~	0.0063	U
1,2,3-Trichlorobenzene	87-61-6	~	~	~	~	~	0.0063	U
1,2,3-Trichloropropane	96-18-4	~	~	~	~	~	0.0063	U
1,2,4-Trichlorobenzene	120-82-1	~	~	~	~	~	0.0063	U
1,2,4-Trimethylbenzene	95-63-6	190	3.6	380	47	52	0.0063	U
1,2-Dibromo-3-chloropropane	96-12-8	~	~	~	~	~	0.0063	U
1,2-Dibromoethane	106-93-4	~	~	~	~	~	0.0063	U
1,2-Dichlorobenzene	95-50-1	500	1.1	1000	100	100	0.0063	U
1,2-Dichloroethane	107-06-2	30	0.02	60	2.3	3.1	0.0063	U
1,2-Dichloropropane	78-87-5	~	~	~	~	~	0.0063	U
1,3,5-Trimethylbenzene	108-67-8	190	8.4	380	47	52	0.0063	U
1,3-Dichlorobenzene	541-73-1	280	2.4	560	17	49	0.0063	U
1,3-Dichloropropane	142-28-9	~	~	~	~	~	0.0063	U
1,4-Dichlorobenzene	106-46-7	130	1.8	250	9.8	13	0.0063	U
1,4-Dioxane	123-91-1	130	0.1	250	9.8	13	0.13	U
2,2-Dichloropropane	594-20-7	~	~	~	~	~	0.0063	U
2-Butanone	78-93-3	500	0.12	1000	100	100	0.0063	U
2-Chlorotoluene	95-49-8	~	~	~	~	~	0.0063	U
4-Chlorotoluene	106-43-4	~	~	~	~	~	0.0063	U
Acetone	67-64-1	500	0.05	1000	100	100	0.0063	U
Benzene	71-43-2	44	0.06	89	2.9	4.8	0.0063	U
Bromobenzene	108-86-1	~	~	~	~	~	0.0063	U
Bromochloromethane	74-97-5	~	~	~	~	~	0.0063	U
Bromodichloromethane	75-27-4	~	~	~	~	~	0.0063	U
Bromoform	75-25-2	~	~	~	~	~	0.0063	U
Bromomethane	74-83-9	~	~	~	~	~	0.0063	U
Carbon tetrachloride	56-23-5	22	0.76	44	1.4	2.4	0.0063	U
Chlorobenzene	108-90-7	500	1.1	1000	100	100	0.0063	U
Chloroethane	75-00-3	~	~	~	~	~	0.0063	U
Chloroform	67-66-3	350	0.37	700	10	49	0.0063	U
Chloromethane	74-87-3	~	~	~	~	~	0.0063	U
cis-1,2-Dichloroethylene	156-59-2	500	0.25	1000	59	100	0.0063	U
cis-1,3-Dichloropropylene	10061-01-5	~	~	~	~	~	0.0063	U
Dibromochloromethane	124-48-1	~	~	~	~	~	0.0063	U
Dibromomethane	74-95-3	~	~	~	~	~	0.0063	U
Dichlorodifluoromethane	75-71-8	~	~	~	~	~	0.0063	U
Ethyl Benzene	100-41-4	390	1	780	30	41	0.0063	U
Hexachlorobutadiene	87-68-3	~	~	~	~	~	0.0063	U
Isopropylbenzene	98-82-8	~	~	~	~	~	0.0063	U
Methyl tert-butyl ether (MTBE)	1634-04-4	500	0.93	1000	62	100	0.0063	U
Methylene chloride	75-09-2	500	0.05	1000	51	100	0.017	J
n-Butylbenzene	104-51-8	500	12	1000	100	100	0.0063	U
n-Propylbenzene	103-65-1	500	3.9	1000	100	100	0.0063	U
Naphthalene	91-20-3	500	12	1000	100	100	0.0063	U
o-Xylene	95-47-6	~	~	~	~	~	0.0063	U

p- & m- Xylenes	179601-23-1	~	~	~	~	~	0.013	U
p-Isopropyltoluene	99-87-6	~	~	~	~	~	0.0063	U
sec-Butylbenzene	135-98-8	500	11	1000	100	100	0.0063	U
Styrene	100-42-5	~	~	~	~	~	0.0063	U
tert-Butylbenzene	98-06-6	500	5.9	1000	100	100	0.0063	U
Tetrachloroethylene	127-18-4	150	1.3	300	5.5	19	0.0063	U
Toluene	108-88-3	500	0.7	1000	100	100	0.0063	U
trans-1,2-Dichloroethylene	156-60-5	500	0.19	1000	100	100	0.0063	U
trans-1,3-Dichloropropylene	10061-02-6	~	~	~	~	~	0.0063	U
Trichloroethylene	79-01-6	200	0.47	400	10	21	0.0063	U
Trichlorofluoromethane	75-69-4	~	~	~	~	~	0.0063	U
Vinyl acetate	108-05-4	~	~	~	~	~	0.0063	U
Vinyl Chloride	75-01-4	13	0.02	27	0.21	0.9	0.0063	U
Xylenes, Total	1330-20-7	500	1.6	1000	100	100	0.019	U
Semi-Volatiles, PAH Target List		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	
2-Methylnaphthalene	91-57-6	~	~	~	~	~	2.40	U
Acenaphthene	83-32-9	500	98	1000	100	100	1.13	U
Acenaphthylene	208-96-8	500	107	1000	100	100	1.50	U
Anthracene	120-12-7	500	1000	1000	100	100	1.93	J,D
Benzo(a)anthracene	56-55-3	5.6	1	11	1	1	6.44	D
Benzo(a)pyrene	50-32-8	1	22	1.1	1	1	7.16	D
Benzo(b)fluoranthene	205-99-2	5.6	1.7	11	1	1	6.46	D
Benzo(g,h,i)perylene	191-24-2	500	1000	1000	100	100	3.86	D
Benzo(k)fluoranthene	207-08-9	56	1.7	110	1	3.9	5.72	D
Chrysene	218-01-9	56	1	110	1	3.9	6.16	D
Dibenzo(a,h)anthracene	53-70-3	0.56	1000	1.1	0.33	0.33	1.85	J,D
Fluoranthene	206-44-0	500	1000	1000	100	100	13.4	D
Fluorene	86-73-7	500	386	1000	100	100	1.50	U
Indeno(1,2,3-cd)pyrene	193-39-5	5.6	8.2	11	0.5	0.5	4.12	D
Naphthalene	91-20-3	500	12	1000	100	100	0.769	U
Phenanthrene	85-01-8	500	1000	1000	100	100	8.90	D
Pyrene	129-00-0	500	1000	1000	100	100	9.65	D
Pesticides/PCBs, EPA 8081/8082 List		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	
4,4'-DDD	72-54-8	92	14	180	2.6	13	0.00206	U
4,4'-DDE	72-55-9	62	17	120	1.8	8.9	0.00206	U
4,4'-DDT	50-29-3	47	136	94	1.7	7.9	0.00206	U
Aldrin	309-00-2	0.68	0.19	1.4	0.019	0.097	0.00206	U
alpha-BHC	319-84-6	3.4	0.02	6.8	0.097	0.48	0.00206	U
Aroclor 1016	12674-11-2	~	~	~	~	~	0.0213	U
Aroclor 1221	11104-28-2	~	~	~	~	~	0.0213	U
Aroclor 1232	11141-16-5	~	~	~	~	~	0.0213	U
Aroclor 1242	53469-21-9	~	~	~	~	~	0.0213	U
Aroclor 1248	12672-29-6	~	~	~	~	~	0.0213	U
Aroclor 1254	11097-69-1	~	~	~	~	~	0.0213	U
Aroclor 1260	11096-82-5	~	~	~	~	~	0.0213	U
beta-BHC	319-85-7	3	0.09	14	0.072	0.36	0.00206	U
Chlordane, total	57-74-9	~	~	~	~	~	0.00826	U
delta-BHC	319-86-8	500	0.25	1000	100	100	0.00206	U
Dieldrin	60-57-1	1.4	0.1	2.8	0.039	0.2	0.00206	U
Endosulfan I	959-98-8	200	102	920	4.8	24	0.00206	U
Endosulfan II	33213-65-9	200	102	920	4.8	24	0.00206	U
Endosulfan sulfate	1031-07-8	200	1000	920	4.8	24	0.00206	U
Endrin	72-20-8	89	0.06	410	2.2	11	0.00206	U
Endrin aldehyde	7421-93-4	~	~	~	~	~	0.00206	U
Endrin ketone	53494-70-5	~	~	~	~	~	0.00206	U
gamma-BHC (Lindane)	58-89-9	9.2	0.1	23	0.28	1.3	0.00206	U
Heptachlor	76-44-8	15	0.38	29	0.42	2.1	0.00206	U
Heptachlor epoxide	1024-57-3	~	~	~	~	~	0.00206	U
Methoxychlor	72-43-5	~	~	~	~	~	0.0103	U
Total PCBs	1336-36-3	1	3.2	25	1	1	0.00851	U

Toxaphene	8001-35-2	~	~	~	~	~	0.104	U
Metals, Target Analyte		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	
Aluminum	7429-90-5	~	~	~	~	~	5500	
Antimony	7440-36-0	~	~	~	~	~	47.4	
Arsenic	7440-38-2	16	16	16	16	16	22.6	
Barium	7440-39-3	400	820	10000	350	400	469	
Beryllium	7440-41-7	590	47	2700	14	72	0.125	U
Cadmium	7440-43-9	9.3	7.5	60	2.5	4.3	3.69	
Calcium	7440-70-2	~	~	~	~	~	3840	
Chromium	7440-47-3	~	~	~	~	~	20.9	
Cobalt	7440-48-4	~	~	~	~	~	7.42	
Copper	7440-50-8	270	1720	10000	270	270	615	
Iron	7439-89-6	~	~	~	~	~	30700	E
Lead	7439-92-1	1000	450	3900	400	400	3700	
Magnesium	7439-95-4	~	~	~	~	~	850	
Manganese	7439-96-5	10000	2000	10000	2000	2000	288	
Nickel	7440-02-0	310	130	10000	140	310	28.4	
Potassium	7440-09-7	~	~	~	~	~	597	
Selenium	7782-49-2	1500	4	6800	36	180	4.19	
Silver	7440-22-4	1500	8.3	6800	36	180	0.125	U
Sodium	7440-23-5	~	~	~	~	~	274	
Thallium	7440-28-0	~	~	~	~	~	0.400	U
Vanadium	7440-62-2	~	~	~	~	~	50.8	
Zinc	7440-66-6	10000	2480	10000	2200	10000	1450	E
Mercury by 7470/7471		mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	
Mercury	7439-97-6	2.8	0.73	5.7	0.81	0.81	0.0413	U
Total Solids		%	%	%	%	%	%	
% Solids	solids	~	~	~	~	~	79.9	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

B=analyte found in the analysis batch blank

D=result is from an analysis that required a dilution

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

~=this indicates that no regulatory limit has been established for this analyte

DISCLAIMER:

York Analytical Laboratories, Inc. is providing this information as a convenience to you. York makes no representations or warranties that these data are accurate, complete or represent the latest regulatory authority limits or analytes. York is not responsible for any errors or omissions in these specific regulations. Your use of these data constitute your understanding of these limitations and you agree to hold York harmless from any and all action that may arise from use of said information. As regulations change often, we encourage the user to review the regulatory limits and lists of interest to confirm these data

SB-1 (10-12')		SB-2 (0-2')		SB-2 (10-12')		SB-3 (6-8')		DUP-SB	
13F0911-02		13F0911-03		13F0911-04		13F0911-05		13F0911-12	
6/25/2013 9:45:00 AM		6/25/2013 9:45:00 AM		6/25/2013 9:45:00 AM		6/25/2013 12:00:00 PM		6/25/2013 3:00:00 PM	
5		50		5		5		5	
Soil		Soil		Soil		Soil		Soil	
mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.13	U	0.12	U	0.12	U	0.14	U	0.12	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.031		0.0061	U	0.0060	U	0.0068	U	0.020	
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.13		0.032		0.057	B	0.037	B	0.088	B
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.015	J	0.020	J	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U

0.013	U	0.012	U	0.012	U	0.014	U	0.012	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.0063	U	0.0061	U	0.0060	U	0.0068	U	0.0059	U
0.019	U	0.018	U	0.018	U	0.020	U	0.018	U
mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
0.242	U	11.8	J,D	0.231	U	0.260	U	0.227	U
0.181	J	52.8	D	0.109	U	0.123	U	0.268	J
0.151	U	7.34	U	0.145	U	0.163	U	0.142	U
0.437		66.9	D	0.165	U	0.185	U	0.569	
0.660		97.2	D	0.113	U	0.127	U	0.774	
0.646		102	D	0.119	U	0.134	U	0.730	
0.396		63.5	D	0.252	U	0.284	U	0.457	
0.104	U	41.9	D	0.100	U	0.112	U	0.102	J
0.480		117	D	0.301	U	0.339	U	0.530	
0.610		91.1	D	0.139	U	0.156	U	0.745	
0.126	U	26.0	D	0.121	U	0.136	U	0.142	J
1.62		184	D	0.177	U	0.198	U	1.70	
0.219	J	39.1	D	0.145	U	0.163	U	0.304	
0.254	J	46.7	D	0.137	U	0.154	U	0.296	J
0.0774	U	59.3	D	0.0741	U	0.0833	U	0.0941	J
1.42		189	D	0.157	U	0.177	U	1.83	
1.46		150	D	0.123	U	0.138	U	1.60	
mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.0111	D	0.00199	U	0.00620	D	0.00195	U
0.00208	U	0.0370	D	0.00199	U	0.0113	D	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
0.0214	U	0.0208	U	0.0205	U	0.0230	U	0.0201	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00830	U	0.00807	U	0.00795	U	0.00894	U	0.00781	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.00208	U	0.00202	U	0.00199	U	0.00224	U	0.00195	U
0.0104	U	0.0101	U	0.00994	U	0.0112	U	0.00976	U
0.00856	U	0.00832	U	0.00819	U	0.00921	U	0.00805	U

0.105	U	0.102	U	0.101	U	0.113	U	0.0988	U
mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
11000		5440		6070		4890		7840	
0.277	U	11.9		0.265	U	0.298	U	0.260	U
3.23		18.1		1.22		5.95		1.87	
91.7		205		28.6		94.1		27.5	
0.126	U	0.122	U	0.121	U	0.135	U	0.118	U
0.126	U	6.18		0.121	U	0.135	U	0.118	U
1670		14500		1450		5930		872	
16.4		17.1		12.0		9.51		15.3	
6.19		6.21		6.68		6.63		5.10	
20.3		2880	E	11.7		38.2		12.4	
18800		23400		18300		16900		16700	
88.2		1530		4.66		107		6.72	
1990		1550		1470		851		1770	
376		276		295		171		118	
15.3		27.5		13.1		16.9		13.2	
812		649		669		616		824	
1.54		2.95		2.35		2.67		1.53	
0.126	U	0.122	U	0.121	U	0.135	U	0.118	U
189		271		139		280		134	
0.403	U	0.391	U	0.386	U	0.433	U	0.379	U
22.9		19.0		21.1		21.1		24.9	
74.5		4890	E	24.6		91.9		105	
mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry		mg/kg dry	
0.0415	U	0.0404	U	0.0398	U	0.0447	U	0.0390	U
%		%		%		%		%	
79.5		81.8		83.0		73.8		84.5	

SampleID YorkID Sampling Date DilutionFactor ClientMatrix RptUnits		NYSDEC TOGS Standards and Guidance Values - GA Water ug/L	GW-1 13G0148-01 7/2/2013 9:00:00 AM 1 Water ug/L		GW-2 13G0148-02 7/2/2013 10:30:00 AM 1 Water ug/L		GW-3 13G0148-03 7/2/2013 1:00:00 PM 1 Water ug/L	
Compound	**CASNumber**		**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Semi-Volatiles, EPA TCL List		ug/L	ug/L		ug/L		ug/L	
1,2,4-Trichlorobenzene	120-82-1	5	2.53	U	2.60	U	2.99	U
1,2-Dichlorobenzene	95-50-1	3	2.55	U	2.62	U	3.02	U
1,3-Dichlorobenzene	541-73-1	3	2.68	U	2.75	U	3.16	U
1,4-Dichlorobenzene	106-46-7	3	2.27	U	2.33	U	2.68	U
2,4,5-Trichlorophenol	95-95-4	1	1.96	U	2.01	U	2.32	U
2,4,6-Trichlorophenol	88-06-2	1	1.79	U	1.84	U	2.12	U
2,4-Dichlorophenol	120-83-2	5	1.94	U	1.99	U	2.29	U
2,4-Dimethylphenol	105-67-9	50	1.64	U	1.68	U	1.94	U
2,4-Dinitrophenol	51-28-5	10	2.31	U	2.37	U	2.73	U
2,4-Dinitrotoluene	121-14-2	5	1.65	U	1.69	U	1.95	U
2,6-Dinitrotoluene	606-20-2	5	1.65	U	1.69	U	1.95	U
2-Chloronaphthalene	91-58-7	10	2.26	U	2.32	U	2.67	U
2-Chlorophenol	95-57-8	1	1.84	U	1.88	U	2.17	U
2-Methylnaphthalene	91-57-6	~	2.83	U	2.91	U	3.35	U
2-Methylphenol	95-48-7	1	1.19	U	1.22	U	1.41	U
2-Nitroaniline	88-74-4	5	1.72	U	1.77	U	2.04	U
2-Nitrophenol	88-75-5	1	2.42	U	2.48	U	2.86	U
3,3'-Dichlorobenzidine	91-94-1	5	1.30	U	1.34	U	1.54	U
3- & 4-Methylphenols	65794-96-9	~	1.15	U	1.18	U	1.36	U
3-Nitroaniline	99-09-2	5	1.72	U	1.77	U	2.04	U
4,6-Dinitro-2-methylphenol	534-52-1	~	1.66	U	1.71	U	1.96	U
4-Bromophenyl phenyl ether	101-55-3	~	1.36	U	1.40	U	1.61	U
4-Chloro-3-methylphenol	59-50-7	1	1.94	U	1.99	U	2.29	U
4-Chloroaniline	106-47-8	5	3.06	U	3.14	U	3.61	U
4-Chlorophenyl phenyl ether	7005-72-3	~	2.51	U	2.58	U	2.97	U
4-Nitroaniline	100-01-6	5	2.75	U	2.82	U	3.25	U
4-Nitrophenol	100-02-7	1	1.70	U	1.75	U	2.01	U
Acenaphthene	83-32-9	20	1.82	U	1.86	U	2.15	U
Acenaphthylene	208-96-8	~	1.78	U	1.83	U	2.11	U
Anthracene	120-12-7	50	1.22	U	1.25	U	1.44	U
Benzo(a)anthracene	56-55-3	0.002	1.34	U	1.38	U	1.59	U
Benzo(a)pyrene	50-32-8	0.002	1.33	U	1.37	U	1.58	U
Benzo(b)fluoranthene	205-99-2	0.002	1.45	U	1.48	U	1.71	U
Benzo(g,h,i)perylene	191-24-2	~	1.75	U	1.80	U	2.07	U
Benzo(k)fluoranthene	207-08-9	0.002	1.88	U	1.93	U	2.22	U
Benzoic acid	65-85-0	~	8.92	U	9.16	U	10.5	U
Benzyl alcohol	100-51-6	~	1.49	U	1.53	U	1.76	U
Benzyl butyl phthalate	85-68-7	50	0.874	U	0.897	U	1.03	U
Bis(2-chloroethoxy)methane	111-91-1	5	1.82	U	1.86	U	2.15	U
Bis(2-chloroethyl)ether	111-44-4	1	1.54	U	1.58	U	1.82	U
Bis(2-chloroisopropyl)ether	108-60-1	5	3.07	U	3.15	U	3.62	U
Bis(2-ethylhexyl)phthalate	117-81-7	5	4.90	U	5.03	U	5.79	U
Chrysene	218-01-9	0.002	1.51	U	1.55	U	1.78	U
Di-n-butyl phthalate	84-74-2	50	2.10	U	2.16	U	2.48	U
Di-n-octyl phthalate	117-84-0	50	1.15	U	1.18	U	1.36	U
Dibenzo(a,h)anthracene	53-70-3	~	1.60	U	1.64	U	1.89	U
Dibenzofuran	132-64-9	~	2.47	U	2.54	U	2.92	U
Diethyl phthalate	84-66-2	50	2.63	U	2.69	U	3.10	U
Dimethyl phthalate	131-11-3	50	1.96	U	2.01	U	2.32	U
Fluoranthene	206-44-0	50	1.27	U	1.31	U	1.50	U
Fluorene	86-73-7	50	1.88	U	1.93	U	2.22	U
Hexachlorobenzene	118-74-1	0.04	1.30	U	1.34	U	1.54	U

Hexachlorobutadiene	87-68-3	0.5	2.86	U	2.94	U	3.38	U
Hexachlorocyclopentadiene	77-47-4	5	2.59	U	2.66	U	3.07	U
Hexachloroethane	67-72-1	5	3.12	U	3.20	U	3.68	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	1.74	U	1.79	U	2.06	U
Isophorone	78-59-1	50	2.75	U	2.82	U	3.25	U
N-nitroso-di-n-propylamine	621-64-7	~	2.63	U	2.69	U	3.10	U
N-Nitrosodiphenylamine	86-30-6	50	5.13	U	5.26	U	6.06	U
Naphthalene	91-20-3	10	2.04	U	2.09	U	2.41	U
Nitrobenzene	98-95-3	0.4	1.73	U	1.78	U	2.05	U
Pentachlorophenol	87-86-5	1	1.49	U	1.53	U	1.76	U
Phenanthrene	85-01-8	50	1.41	U	1.44	U	1.66	U
Phenol	108-95-2	1	1.13	U	1.16	U	1.33	U
Pyrene	129-00-0	50	1.77	U	1.82	U	2.10	U
Metals, Target Analyte		ug/L	ug/L		ug/L		ug/L	
Aluminum	7429-90-5	~	294		1020		250	
Antimony	7440-36-0	3	3	U	3	J	3	U
Arsenic	7440-38-2	25	4		14		9	
Barium	7440-39-3	1000	140		228		136	
Beryllium	7440-41-7	3	1	U	1	U	1	U
Cadmium	7440-43-9	5	2	U	2	U	2	U
Calcium	7440-70-2	~	106000		109000		126000	
Chromium	7440-47-3	50	2	U	2	J	2	U
Cobalt	7440-48-4	~	2	J	2	J	2	J
Copper	7440-50-8	200	2	J	65		2	J
Iron	7439-89-6	~	10200		762		4730	
Lead	7439-92-1	25	22		144		21	
Magnesium	7439-95-4	35000	11600		7660		16200	
Manganese	7439-96-5	300	318		380		531	
Nickel	7440-02-0	100	1	J	1	J	1	J
Potassium	7440-09-7	~	23600		20300		36100	
Selenium	7782-49-2	10	7	U	7	U	7	U
Silver	7440-22-4	50	2	U	2	U	2	U
Sodium	7440-23-5	20000	14900		16200		53000	
Thallium	7440-28-0	~	3	U	3	U	3	U
Vanadium	7440-62-2	~	2	J	12		2	J
Zinc	7440-66-6	2000	25		308		29	
Metals, Dissolved - Target Analyte (TAL)		ug/L	ug/L		ug/L		ug/L	
Aluminum	7429-90-5	~	10	U	10	U	10	U
Antimony	7440-36-0	3	3	U	3	J	3	U
Arsenic	7440-38-2	25	4	U	4	U	4	U
Barium	7440-39-3	1000	121		142		117	
Beryllium	7440-41-7	3	1	U	1	U	1	U
Cadmium	7440-43-9	5	2	U	2	U	2	U
Calcium	7440-70-2	~	108000		111000		128000	
Chromium	7440-47-3	50	2	U	2	U	2	U
Cobalt	7440-48-4	~	2	J	2	J	2	J
Copper	7440-50-8	200	2	U	2	U	2	U
Iron	7439-89-6	~	59		10	U	32	
Lead	7439-92-1	25	2	U	6		2	U
Magnesium	7439-95-4	35000	9340		8170		16800	
Manganese	7439-96-5	300	381		453		539	
Nickel	7440-02-0	100	1	J	1	J	1	J
Potassium	7440-09-7	~	19200		20000		38100	
Selenium	7782-49-2	10	10		7	J	12	
Silver	7440-22-4	50	2	U	2	U	2	U
Sodium	7440-23-5	20000	12600		16200		55800	
Thallium	7440-28-0	~	3	U	3	U	3	U
Vanadium	7440-62-2	~	2	U	2	J	2	U
Zinc	7440-66-6	2000	2	J	158		2	J
Mercury by 7470/7471		ug/L	ug/L		ug/L		ug/L	

Mercury	7439-97-6	0.7	0.2	U	0.5		0.2	U
Mercury, Dissolved		ug/L	ug/L		ug/L		ug/L	
Mercury	7439-97-6	0.7	0.03900	U	0.03900	U	0.03900	U
NOTES:								
Any Regulatory Exceedences are color coded by Regulation								
Q is the Qualifier Column with definitions as follows:								
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimatec								
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SampleID YorkID Sampling Date DilutionFactor ClientMatrix RptUnits		NYSDEC TOGS Standards and Guidance Values - GA Water ug/L	GW-1 (7-12') 13F0911-06 6/25/2013 9:45:00 AM 1 Water ug/L		GW-2 (7-12') 13F0911-07 6/25/2013 9:45:00 AM 1 Water ug/L		GW-3 (7-12') 13F0911-08 6/25/2013 12:00:00 PM 1 Water ug/L	
Compound	**CASNumber**		**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Volatile Organics, 8260 List		ug/L	ug/L		ug/L		ug/L	
1,1,1,2-Tetrachloroethane	630-20-6	5	2.5	U	2.5	U	2.5	U
1,1,1-Trichloroethane	71-55-6	5	2.5	U	2.5	U	2.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	2.5	U	2.5	U	2.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	76-13-1	5	2.5	U	2.5	U	2.5	U
1,1,2-Trichloroethane	79-00-5	1	2.5	U	2.5	U	2.5	U
1,1-Dichloroethane	75-34-3	5	2.5	U	2.5	U	2.5	U
1,1-Dichloroethylene	75-35-4	5	2.5	U	2.5	U	2.5	U
1,1-Dichloropropylene	563-58-6	5	2.5	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	87-61-6	5	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	2.5	U	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	5	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	0.6	2.5	U	2.5	U	2.5	U
1,2-Dichloropropane	78-87-5	1	2.5	U	2.5	U	2.5	U
1,3,5-Trimethylbenzene	108-67-8	5	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	2.5	U	2.5	U	2.5	U
2,2-Dichloropropane	594-20-7	5	2.5	U	2.5	U	2.5	U
2-Butanone	78-93-3	50	2.5	U	2.5	U	2.5	U
2-Chlorotoluene	95-49-8	5	2.5	U	2.5	U	2.5	U
4-Chlorotoluene	106-43-4	5	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	3.7	J	2.5	U	3.3	J
Benzene	71-43-2	1	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	2.5	U	2.5	U	2.5	U
Bromochloromethane	74-97-5	5	2.5	U	2.5	U	2.5	U
Bromodichloromethane	75-27-4	50	2.5	U	2.5	U	2.5	U
Bromoform	75-25-2	50	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	2.5	U	2.5	U	2.5	U
Carbon tetrachloride	56-23-5	5	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	2.5	U	2.5	U	2.5	U
Chloroform	67-66-3	7	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3	5	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethylene	156-59-2	5	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropylene	10061-01-5	0.4	2.5	U	2.5	U	2.5	U
Dibromochloromethane	124-48-1	50	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	~	2.5	U	2.5	U	2.5	U
Dichlorodifluoromethane	75-71-8	5	2.5	U	2.5	U	2.5	U
Ethyl Benzene	100-41-4	5	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	2.5	U	2.5	U	2.5	U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	2.5	U	2.5	U	2.5	U
Methylene chloride	75-09-2	5	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	2.5	U	2.5	U	2.5	U
n-Propylbenzene	103-65-1	5	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	2.5	U	2.5	U	2.5	U
p- & m- Xylenes	179601-23-1	5	5.0	U	5.0	U	5.0	U

p-Isopropyltoluene	99-87-6	5	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	2.5	U	2.5	U	2.5	U
Tetrachloroethylene	127-18-4	5	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethylene	156-60-5	5	2.5	U	2.5	U	2.5	U
trans-1,3-Dichloropropylene	10061-02-6	0.4	2.5	U	2.5	U	2.5	U
Trichloroethylene	79-01-6	5	2.5	U	2.5	U	2.5	U
Trichlorofluoromethane	75-69-4	5	2.5	U	2.5	U	2.5	U
Vinyl acetate	108-05-4	~	2.5	U	2.5	U	2.5	U
Vinyl Chloride	75-01-4	2	2.5	U	2.5	U	2.5	U
Xylenes, Total	1330-20-7	5	7.5	U	7.5	U	7.5	U

NOTES:

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~=this indicates that no regulatory limit has been established for this analyte

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DUP-GW 13F0911-09 6/25/2013 12:00:00 PM 1 Water ug/L		Field Blank 13F0911-10 6/25/2013 11:00:00 AM 1 Water ug/L		Trip Blank 13F0911-11 6/25/2013 6:00:00 AM 1 Water ug/L	
Result	Q	Result	Q	Result	Q
ug/L		ug/L		ug/L	
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
4.5	J	3.6	J	3.9	J
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
5.0	U	5.0	U	5.0	U

2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
2.5	U	2.5	U	2.5	U
7.5	U	7.5	U	7.5	U

Table 3.0

Compounds	NYSDOH Maximum Sub-Slab Value (ug/m^3)	SV-1	SV-2	SV-3
PCE	100	<0.19	<0.18	0.28
TCE	5	<0.095	<0.091	<0.11

Table 4.0

Analytical Methods Summary Table

Matrix	Number of Samples	Analytical Parameters Measured	Analytical Methods
Soil	5	VOCs, SVOCs, Metals, Pesticides, PCBs	8260, 8270, 6010B, 7470, 8081/8082
Groundwater	3	VOCs, SVOCs, Metals, Pesticides, PCBs	8260, 8270, 6010B, 7470, 8081/8082
Soil Vapor	3	VOCs	TO-15

APPENDIX A

LEA Phase 1 Report, April 17, 2013

PHASE I
ENVIRONMENTAL
SITE ASSESSMENT

MULTI-FAMILY RESIDENTIAL
415 MANHATTAN AVENUE
BROOKLYN, NEW YORK 11222

PREPARED FOR:

MR. CHRIS CIELEPAK
415 MANHATTAN AVENUE REALTY INC.
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MASPETH, NEW YORK 11379

PREPARED BY:

LAUREL ENVIRONMENTAL ASSOCIATES, LTD.
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HUNTINGTON STATION, NEW YORK

APRIL 15, 2013
***LEA* PROJECT # 12-409**

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415 Manhattan Avenue, Brooklyn, New York

LAUREL ENVIRONMENTAL ASSOCIATES, LTD.
ENVIRONMENTAL CERTIFICATION

***LEA* Project ID #:**	**12-409**
Report:	Phase I Environmental Site Assessment, ASTM E1527-05
Inspection Date:	April 7, 2013
Resource Date:	February 2013
Report Date:	April 15, 2013
Site:	415 Manhattan Avenue, Brooklyn, New York 11222 Located on the west side of Manhattan Avenue; north of the Brooklyn Queens Expressway and south of Bayard Street.
Weather Conditions:	35°F; Sunny
Inspection Limitations:	None
Client:	Chris Cielepak, 415 Manhattan Ave Realty Inc.

Report Prepared By:

Thomas H. Johansen
Environmental Scientist

Carla M. Sullivan, QA/QC
VP, Senior Geologist

ENVIRONMENTAL PROFESSIONAL CERTIFICATION

I declare that, to the best of my professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in § 312.10 of 40 Code of Federal Regulations (CFR) 312.

The Environmental Professional who directed this project has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

SCOTT A. YANUCK
Environmental Assessment
12200
Certified Site Assessor
Environmental Specialist

Scott A. Yanuck
Principal

4/15/13
Date

EXECUTIVE SUMMARY AND FINDINGS

On-site:

1. The Subject Property maintains one (1) two-story walk-up three-family residential dwelling. The building has a footprint of approximately 800 square feet and is situated on a parcel approximately 2,500 square feet in area. The building was constructed circa 1887 for residential purposes and fronts along Manhattan Avenue. The site is relatively flat, covered with the building, a mostly unpaved rear yard, concrete sidewalks and a side fire egress. The Subject Property is located in a residential and commercial area of the Williamsburg Section of Brooklyn, New York.

2. The Building maintains a basement, first, and second floors all utilized for apartment space. During ***LEA's*** site inspection the building was vacant and undergoing cosmetic changes-painting and sheet rock repair. The basement maintains a kitchen, bathroom, storage closets, and a bedroom. The utility meters and natural gas fired burners are also located in the basement. The first and second floors were observed to maintain a kitchen, multiple bedrooms and storage closets along with bathrooms. There is a large open back yard with two small concrete-paved areas located along the back of the building and the rear property boundary.

3. Due to the age of the building, lead-based paint may be present within the Subject Building. The majority of the painted surfaces were being re-painted during ***LEA's*** inspection and were observed to be in excellent condition. A lead based survey should be conducted prior to demolition or renovations.

4. No friable or non-friable suspect asbestos containing materials were noted during the inspection other than roofing materials. However, due to proposed demolition, an asbestos survey must be conducted prior to demolition.

5. No fill ports and/or vent pipes, which indicate the presence of underground storage tanks (USTs) or aboveground storage tanks (ASTs), were noted at the Subject Property at the time of the site inspection. Based upon our site reconnaissance, interviews, and review of state and local records, ***LEA*** identified no evidence of existing USTs or ASTs at the Subject Property. Based upon the age of the building, heat was most likely supplied by coal prior to conversion to either an oil-fired system or natural gas.

6. This site is listed twice as an E-Designated site: E-138 - Hazmat for underground gasoline storage tanks testing protocol and E-138 - Noise for air quality operable window limitations. Both E-Designation listings were issued on May 11, 2005.

Off-site:

1. There is one NPL listed site located within a one-mile radius of the Subject Property. Newtown Creek, ID# NYN000206282, is located 4,730 feet hydraulically down-gradient. Remediation is underway but not yet complete. Due to the hydraulic location relative to the Subject Property this site should not present a recognized environmental condition.

2. There is one CERCLIS listed site located within a ½-mile radius of the Subject Property. City Barrel, ID# NYD068298835, located 198 feet hydraulically side-gradient, is listed as having no further remedial action planned. Due to the hydraulic location and status of this facility, it should not present a recognized environmental condition to the Subject Property.

3. There are eighteen (18) listed IHWD sites within a one-mile radius of the Subject Property, all of which

are located hydraulically side and/or down-gradient and should not present recognized environmental condition to the Subject Property.

4. There is one listed HSWD site located within a one-mile radius of the Subject Property. City Barrel, Registry ID# N, located 188 feet hydraulically side-gradient, has an unknown remedial status. Based upon the hydraulic location this facility, relative to the Subject Property, it should not present a recognized environmental condition.

5. There are eight active NYSDEC listed spills and six active NYSDEC listed leaking USTs located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

6. There is one site located within a ¼-mile of the Subject Property listed as an Air Discharge Site. Elli Woodworking Industries, ID# 36047P0003, located 595 feet north of the Subject Site, is listed as releasing sip source VOCs. The facility is in operation and with active violations regarding both emissions and procedural compliance. Due to the resource affected and lack of traceability, no determination can be made as to the environmental threat to the Subject Property.

7. There is one property located within a ⅛-mile radius listed as a Civil & Administrative Enforcement Docket sites. NYC BD of ED-Junior High School, ID #NY0000379990 is in violation of asbestos. This case was concluded in 1999 and should not present a recognized environmental condition at the Subject Property.

Based on the findings of this investigation, ***Laurel Environmental Associates, Ltd. (LEA)*** has discovered the following recognized environmental conditions at the Subject Property, 415 Manhattan Avenue, Brooklyn, New York 11222.

Recognized Environmental Conditions	***Potential Impacts***
• E-Designation	High Risk
• Potential former USTs	Low Risk
• Possible Asbestos Containing Materials	Low Risk
• Lead based paints	Low Risk

EXECUTIVE RECOMMENDATIONS

Based on the above conclusions ***LEA*** recommends the following:

1. Conduct a Geophysical Survey to check for possible USTs or other anomalies at the site.
2. Utilizing a 420M Limited access Geoprobe conduct at least five soil borings within the property boundary to determine the soil conditions.
3. Utilizing a 420M Geoprobe collect groundwater from three locations to determine groundwater quality and flow direction.
4. Conduct a soil vapor survey, with two subslab, one indoor and one outdoor air samples to determine the soil vapor and air quality on-site.
5. An asbestos survey must be conducted prior to demolition.
6. Submit all samples to a NYS Certified laboratory.
7. Review results and write a report with remedial objectives clearly outlined.
8. Submit data and report the NYC OER offices for review.

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REPORT SPECIFICATIONS

This report contains (57) pages of text.

Copies and circulation of this report are as follows:

(3) Two bound copies and one electronic copy to Chris Cielepak

(1) One copy in the confidential client file at ***Laurel Environmental Associates, Ltd.***

This report is prepared for the exclusive use of the principal(s) noted above and is considered private and confidential. ***LEA*** shall not release this report or any of the findings of this report to any person or agency except with the authorization of the named principal(s).

The accuracy of the findings obtained through this environmental audit was considered to be of paramount importance during the formulation of this report. However, the accuracy of this report is limited to the information available from interviews, records, and plans released by the property owner or his representatives, and the respective regulatory agencies; their attorneys and information officers, whose interest in issues presented herein is unknown to ***LEA***.

1.0 INTRODUCTION

Laurel Environmental Associates, Ltd. was retained by Chris Cielepak to conduct a Phase I Environmental Site Assessment (ESA) of the residential property located at 415 Manhattan Avenue, Brooklyn, New York 11222 (please see Figure 1.0, Site Location).

The purpose of this Phase I ESA is to determine if any recognized environmental conditions exist within the property in question. Recognized Environmental Conditions (RECs) would include, but not be limited to: hazardous/toxic wastes or raw chemicals stored, dumped, or spilled on the site; underground storage of hazardous materials; friable asbestos in building materials/structures; and identification of potential off-site sources of hazardous waste contamination, such as industrial facilities adjoining the Subject Site.

The conclusions of this Phase I ESA are based on findings at the time of ***LEA's*** site visit and review of readily ascertainable historical records, regulatory documents, and databases made available within a reasonable time period. Due to limited availability, ***LEA*** is not able to make any determinations with respect to portions of the Subject Property and structures which were not inspected or regulatory documents not provided within a timely fashion.

1.1 ASTM STANDARD PRACTICE E-1527-05

1.1.1 Purpose

The purpose of the American Society for Testing and Material (ASTM) Standard Practice for Environmental Site Assessments, E-1527-05, as well as Practice E-1528-06, is to define good commercial and customary practice in the United States of America for conducting an *ESA* of a parcel of *commercial real estate* with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and *petroleum products*. As such, this practice is intended to permit a *user* to satisfy one of the requirements to qualify for the *innocent landowner defense* to CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC § 9601(35)(B). An evaluation of *business environmental risk* associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this practice.

1.1.2 Definition of Recognized Environmental Conditions

In defining a standard of good commercial and customary practice for conducting an *environmental site assessment* of a parcel of *property*, the goal of the processes established by this practice is to identify *recognized environmental conditions*. The term *recognized environmental conditions* means the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, groundwater, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not *recognized environmental conditions*.

It is not generally within the scope of this report to perform intrusive or aggressive testing of suspect materials observed at the site. Materials will be identified as environmentally suspect; however, a representative sampling procedure is required to fully assess the occurrence of the following materials: electrical devices containing Poly-Chlorinated Biphenyls (PCBs); the presence of radon gas; lead-based paint; asbestos containing materials; and mold.

1.2 SCOPE OF WORK

To complete the Environmental Site Assessment, the following tasks were performed in conformance with American Society for Testing and Material (ASTM) Standard Practice for Environmental Site Assessments, E-1527-05:

1. A detailed walk-through inspection of the Subject Property or representative areas of the property.
2. An interview with the owner and facility manager concerning past and/or present operations conducted at the Subject Property.
3. Comparison of fair market value and listed sale price is not applicable as the Property is not for sale.
4. An environmental lien search was not provided by the client.
5. The presence of suspect asbestos containing materials (ACM) was noted.
6. The presence of suspect lead-based paints was noted.
7. A review of New York City building department, fire marshal, and/or tax assessor's office records to identify past owners, possible uses of the property, and construction details.
8. A review of state and federal regulatory agency documents concerning the location of known hazardous waste sites within proximity of the Subject Property.
9. A review of files/documents maintained by state and local regulatory agencies to investigate potential environmental hazards associated with the Subject Property when such information exists.
10. Major sources of electromagnetic fields were identified.
11. Identification of surrounding property use.
12. A review of City Directories.
13. Sanborn Fire Insurance Maps review from 1887 to 2007.
14. A review of historical aerial photographs from 1984 to 1994.
15. A review of historical topographical maps from 1900 and 1967.
16. An identification of data failure and gaps.
17. Approximate the depth to groundwater and direction of regional groundwater flow beneath the Subject Property.
18. List recommendations for further study, as required (added to standard ASTM scope of work).

Findings, conclusions, and recommendations presented in Sections 8.0 through 10.0 (pages 41 through 45), are based on the careful consideration of the results of the above research. Any recommendations made are formulated with respect to maintaining or protecting the collateral value of the property and providing protection from toxic tort lawsuits.

Business environmental risk can have a material or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate. It is not necessarily limited to those environmental issues required to be investigated in the ASTM Standard Practice for Environmental Site Assessments, E-1527-05. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations, some of which are identified on the following page.

There may be environmental issues or conditions at the Subject Property that parties may wish to assess in connection with commercial real estate that are outside the scope of this practice. As noted by the legal analysis in Appendix X1 of the ASTM Standard Practice for Environmental Site Assessments, E-1527-05, some substances may be present on a property but are not included in CERCLA's definition of hazardous substances (42 USC § 9601(14)) or do not otherwise present potential CERCLA liability. In any case, they are beyond the scope of this report. The following listed concerns are several non-scope considerations that entities may want to assess in connection with commercial real estate. No implication is intended as to the relative importance of inquiry into such non-scope considerations and this list of non-scope considerations is not intended to be all-inclusive, but can be completed upon request.

1) Lead in Drinking Water
2) Regulatory Compliance
3) Cultural and Historical Resources
4) Industrial Hygiene
5) Health and Safety
6) Ecological Resources
7) Endangered Species
8) Indoor Air Quality, and
9) Mold Sampling of Air and Surfaces

1.3 CONFLICT CERTIFICATION

Laurel Environmental Associates, Ltd. has no present or contemplated future ownership interest or financial interest in the real estate that is the subject of this Environmental Assessment Report. ***LEA*** has no personal interest with respect to the subject matter of the Environmental Site Assessment or the parties involved, and ***LEA*** has no relationship with the property or the owners thereof which would prevent an independent and unbiased analysis of the environmental or other conditions of the property.

1.4 VIABILITY OF PHASE I ESA

An updated Phase I ESA should be performed if it appears that the property transaction will not close by the Phase I ESA Report Viability Date. Pursuant to Section 4.6 of ASTM E1527-05, Phase I ESAs are considered viable for 180 days. In calculating the Report Viability Date, ***LEA*** used the date that was the earliest of the following four tasks: the interview of those present owners identified in Section 10 of ASTM E1527-05, the government record review, and the visual inspection of the Subject Property and adjoining properties.

1.5 SIGNIFICANT ASSUMPTIONS

Information regarding the Subject Property was reasonably ascertainable and therefore, no significant assumptions have been made, unless otherwise noted in a specific section of this report.

1.6 USER RELIANCE

This report was prepared solely for the use of the client, Chris Cielepak, and is not intended for use by third parties. Unauthorized third parties shall indemnify and hold ***LEA*** harmless against any liability for any loss arising out of, or related to, reliance by any third party on any work performed hereunder, or the contents of this report.

1.7 DATA GAPS

Any data gaps identified herein, as defined by ASTM Practice E 1527-05 § 3.2.20, are not considered to have significantly affected the ability to identify recognized environmental conditions in connection with the Subject Property and do not alter the conclusions of this report.

1.8 LIMITATIONS

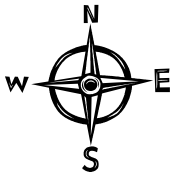
To the best of ***LEA's*** knowledge, the information contained in this report is true and accurate. Due diligence has been exercised by ***LEA*** personnel in the compilation of the information contained herein, appropriate to environmental professionals engaged in investigations of this sort. ***LEA*** makes no guarantees regarding the accuracy of information gained from other sources.

The Subject Property location and boundaries as understood by ***LEA*** are depicted in the maps appended to this report. It is the responsibility of the reader to verify that the location and boundaries depicted herein are correct.

1.9 SITE DETAILS AND INSPECTION OVERVIEW

Site Details and Inspection Overview†		
Site Address	415 Manhattan Avenue, Brooklyn, New York 11222	
Cross Streets	Richardson Street and Bayard Street	
Site Owner	Guidice, Tenants In	
Site Occupant	Vacant	
Tax Lot	Block: 2723 Lot: 30	
Municipality	Williamsburg Section of Kings County	
Zoning	Mixed-Use	
USGS Quadrangle	Brooklyn	
Physical Location	Latitude 40° 43' 08.28" North Longitude 73° 56' 49.62" West	
NAICS Code Usage	531110 – Multi-Family Residential	
Land Size	Approximately 2,500 square feet	
Building Footprint	Approximately 800 square feet	
Site Elevation	14 feet	
Site Topography	Unremarkable	
Date of Construction	Circa 1887	
Current Heating System	Natural Gas-Fired Burners	
Utilities	**Electric**	Consolidated Edison
	Natural Gas	Consolidated Edison
	Water	City of New York
	Sanitary System	Municipal
Chemical Storage*	Absent	
Drum Storage	Absent	
Petroleum Storage Tanks	Absent	
Suspect Asbestos	Absent	
Water Damage/Mold Growth	Absent	

†Based on areas available for inspection, not all areas may have been accessible.
*Other than typical housekeeping and/or janitorial supplies.



Map of Kings County

★ = Approximate site location

2.0 SITE DESCRIPTION

Thomas H. Johansen, a ***LEA*** Geologist and Site Inspector completed the inspection of the Subject Property on April 7, 2013. The inspection was conducted with Karen (a representative of the property owner). The property was walked through and any indication of an environmental hazard was noted. Operations conducted at the Subject Property were observed, photographs were taken of the Subject Property, associated structures, and adjoining properties. Please refer to Appendix A of this report.

2.1 BUILDING AND PROPERTY INSPECTION

The Subject Property maintains one (1) two-story walk up three family residential dwelling with a footprint of approximately 800 square feet situated on a parcel approximately 2,500 square feet in area. The building was constructed circa 1887 for residential purposes and fronts along Manhattan Avenue. The site is relatively flat, covered with the building, a partially paved rear yard, concrete sidewalks and a side fire egress. The Subject Property is located in a residential and commercial area of the Williamsburg Section of Brooklyn, New York.

The Building maintains a basement, first, and second floors all utilized for apartment space. During ***LEA's*** site inspection the building was vacant and undergoing cosmetic changes, limited to painting and sheetrock repair. The basement maintains a kitchen, bathroom, storage closets, and a bedroom. The utility meters and natural gas fired burners are also located in the basement. The first and second floors were observed to maintain kitchens, multiple bedrooms and storage closets along with bathrooms. There is a large open back yard with two small concrete-paved areas located along the back of the building and the rear property boundary.

The building is serviced with public water from the City of New Yorkand with electricity and natural gas from Consolidated Edison. The Subject Building is heated by three natural gas fired burners located in the basement.

2.2 GENERAL HOUSEKEEPING PRACTICES

Housekeeping was noted to be fair throughout the building and grounds-typical of a vacant building undergoing minor renovations.

2.3 VEGETATION

The Subject Property maintains a grass yard located on the west side of the Subject Property, observed to be relatively healthy with no signs of obvious distress.

2.4 CLASS V INJECTION WELLS

Class V injection wells are used to inject non-hazardous fluids underground. Most Class V wells are used to dispose of wastes into or above underground sources of drinking water and can pose a threat to groundwater quality, if not managed properly. Most Class V wells are shallow disposal systems that depend on gravity to drain fluids directly into the ground. There are over 20 well sub-types that fall into the Class V category and these wells are used by individuals and businesses to inject a variety of non-hazardous fluids underground. The United States Environmental Protection Agency (USEPA) estimates that there are more than 650,000 Class V wells in operation nationwide. Most of these Class V wells are unsophisticated shallow disposal systems that include storm water drainage wells, cesspools, and septic system leach fields. However, the Class V well category also includes more complex wells that are typically deeper and are often used at commercial and/or industrial facilities.

Other more sophisticated Class V well types could include aquifer storage and recovery wells or geothermal electric power wells - that are used to inject geothermal fluids extracted from subsurface hydrothermal systems. Complex Class V wells also include wells that are used for pilot Geologic Sequestration (GS) projects that are experimental in nature. On December 10, 2010, the USEPA finalized regulations for GS projects. These new regulations include the creation of a new class of wells, Class VI. The USEPA understands that some of the wells permitted as Class V experimental technology wells may no longer be used for experimental purposes. Following the final rule, Class V wells that are not being used for experimental purposes must be re-permitted as Class VI wells and will be subject to Class VI requirements.

Class V wells are a concern because they pose a risk to underground sources of drinking water. Because of this they are regulated by the Underground Injection Control (UIC) program under the Authority of the Safe Drinking Water Act.

2.4.1 Septic Systems

Sanitary waste has been handled by public sewer since construction of the Subject Building circa 1887. Based on the historical usage as a residence, any discharge into a possible on-site sanitary system does not pose a significant environmental condition.

2.4.2 Storm Water Drainage

Storm water and roof run-off is handled by natural drainage and runoff to Manhattan Avenue.

2.4.3 Floor Drains

No floor drains were noted in the Subject Building during the on-site inspection.

2.5 CURRENT SITE OPERATIONS

The Subject Property was recently vacated and undergoing renovations.

2.6 PAST SITE OPERATIONS

The Subject Property has been used for residential purposes since construction circa 1887.

2.7 CHEMICAL USE AND STORAGE

No chemical storage was noted within the Subject Building or on the grounds during the on-site inspection. Former chemical storage is assumed to have been limited to typical housekeeping supplies.

2.7.1 Biohazardous Waste

No biohazardous waste is generated or stored at the Subject Property.

2.8 DRUM STORAGE

No drum storage was noted during the site inspection.

2.9 UNDERGROUND AND ABOVEGROUND STORAGE TANKS

The Subject Property was inspected for tank fill ports, vent pipes, and other signs of aboveground storage tanks (ASTs) and/or underground storage tanks (USTs). No fill ports and/or vent pipes, which indicate the presence of USTs or ASTs, were noted at the Subject Property at the time of the site inspection. Based upon our site reconnaissance, interviews, and review of state and local records, ***LEA*** identified no evidence of existing USTs or ASTs at the Subject Property. Based upon the age of the building, heat was most likely supplied by coal prior to conversion to either an oil-fired system or natural gas.

2.9.1 Emergency Generators

No emergency generators and associated tanks were observed during our site reconnaissance.

2.10 PCBs in Electrical Transformers and Fluorescent Lighting Ballasts

There are three types of transformers defined in the Poly-Chlorinated Biphenyls (PCBs) regulations:

- PCB Transformer: Any transformer containing 500 parts per million (ppm) PCBs or greater.
- Non-PCB Transformer: Any transformer containing less than 50 ppm PCBs.
- PCB Contaminated Transformer: Any transformer containing 50-499 ppm PCBs. These transformers are not subject to parts of the regulations, such as marking requirements, and if drained of liquid, to disposal requirements. Any liquid drained from these transformers must be stored and disposed of in accordance with the regulations.

Transformers often contain dielectric liquid for the primary purpose of increasing resistance of the unit to arcing and acting as a heat transfer media, helping to cool the coils. The majority of transformers are filled with mineral oil, but a small percentage of these liquid-filled transformers contain PCB Askarel coolant liquid. The term "Askarel" is a generic term used for a group of nonflammable synthetic chlorinated hydrocarbons. All types of Askarels sold prior to 1979 contained 60 to 100 percent PCBs. Askarel transformers were manufactured in a variety of sizes, i.e. 3 to 3,000 gallons of PCB liquid, and are generally used in hazardous locations where flammability is of concern. PCB transformers are no longer produced because of the USEPA ban on the manufacture of new equipment containing PCBs.

Prior to the banning of PCB manufacturing in 1976, the compounds were used in small amounts during the production of fluorescent light ballasts. According to USEPA regulations, light ballasts containing less than three pounds of PCBs are exempt from special hazardous waste transportation and disposal and may be disposed of as municipal wastes; however, removal is not required by law. To determine if the light ballasts contain PCBs, the light fixtures would have to be dismantled, the make and model number obtained, and the manufacturer contacted. If the lighting is to remain, maintenance personnel should be advised of the possibility that the ballasts may contain PCBs. Workers should exercise caution when handling the ballasts, taking care not to cause leaks. Protective gloves and clothing should be worn when handling ballasts.

There are no pad or pole-mounted transformers located at the Subject Property. The building is illuminated with fluorescent and incandescent lighting. Light ballasts may contain PCBs given the buildings age.

2.11 FRIABLE AND NON-FRIABLE SUSPECT ASBESTOS CONTAINING MATERIALS

The USEPA designated material containing more than 1% asbestos to be considered as an Asbestos Containing Material (ACM). Where asbestos containing material is determined to be "Friable" (capable of being crushed by hand pressure and having a high potential to release airborne fibers), it is the recommendation of the USEPA that strong response action be taken. Such actions may take the form of removal, encapsulating, repair, enclosure, or an operations and maintenance program. The response action is determined depending on the severity and nature of the individual problem.

No friable or non-friable suspect asbestos containing materials were noted during the inspection other than roofing materials. However, due to proposed demolition of the building, an asbestos survey should be conducted and must be conducted prior to demolition.

A full asbestos inspection was not completed, as it is beyond the scope of this report.

2.12 SUSPECT LEAD-BASED PAINT

Use of lead in household paint was banned by the USEPA effective January 1, 1978. The USEPA and the U.S. Department of Housing and Urban Development (HUD) consider lead-based paint as containing a lead concentration equal to or greater than 1.0 milligram per square centimeter (mg/cm^2) or 0.5% lead by weight, as defined by Title X of the 1992 Housing and Community Development Act.

Due to the age of the building, lead-based paint may be present within the Subject Building. The majority of the painted surfaces were being re-painted during ***LEA's*** inspection and were observed to be in excellent condition. A lead based survey should be conducted prior to demolition or renovations.

A full lead-based paint inspection was not completed, as it is beyond the scope of this report. Based on ***LEA's*** limited observations, no suspect lead-based paint surfaces were considered to be peeling or chipping at the time of the site inspection. Caution is recommended if renovations and/or remolding of this facility are to take place. Worker safety should be considered during any future site renovations and/or demolition.

2.13 WATER DAMAGE AND MOLD GROWTH

Humidity or wetness, caused by water leaks, spills from plumbing failures, or condensation, can cause mold growth on interior and exterior surfaces; including but not limited to walls, ceilings, carpets, or furniture. Mold is a living organism that produces mold spores through reproduction. These spores are tiny particles that drift through the air until finding wet, humid areas in which they thrive. Although mold does not affect everyone it can cause health problems when inhaled. Mold can trigger asthma attacks, and some produce toxins that may be hazardous if people are exposed to large quantities of these molds. Mold spores and related *mycotoxins* can also pose a serious health threat to individuals who have compromised immune systems.

A full mold inspection was not requested or completed as part of this assessment, as it is beyond the scope of this report. Based on ***LEA's*** limited observations, there was no visible evidence of mold and/or mold related odors at the time of the site inspection. It should be noted that mold may be present in hidden areas not observed during ***LEA's*** site reconnaissance. Of particular concern would be areas that experience water damage and areas of high humidity. Caution should be taken following any future water release within the Subject Building. Water leaks and water damage should be addressed immediately to help prevent the formation of mold spores. Visual evidence of mold should be addressed immediately by professional remediation contractors hired to address such issues.

2.14 WETLANDS AND NYSDEC ECOLOGICAL ZONE

For regulatory purposes under the Clean Water Act, the term wetlands means "those areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include streams, swamps, marshes, bogs, and similar areas". The New York State Official Tidal Wetlands Inventory is maintained by the New York State Department of Environmental Conservation (NYSDEC) Bureau of Marine Resources in the Tidal Wetlands Inventory and Geographic Information System (GIS) Unit. The statutory definition of a tidal wetland can be found in New York's Environmental Conservation Law, Article 25, entitled "Tidal Wetlands Act."

According to maps provided by the NYSDEC, the Subject Property does not reside within a fresh water or tidal wetlands area. An inspection of the Subject Property by ***LEA*** did not observe the presence of wetlands within its boundaries. There are no documented wetlands located within a ¼-mile radius of the Subject Property.

ZONE I - COASTAL LOWLANDS

Geology	This zone is a terminal moraine of the great ice sheet. Topographic relief is low.
Elevation	Ranges from sea level to 200 feet
Soils	The soils are glacial outwash and deltaic sands medium to moderately coarse-textured on gravel and recent alluvium. The soils tend to the strongly acid and are of low fertility.
Vegetation	All of the Coastal Lowlands are included in the oak natural vegetation zone. Much of the forest is scrubby due to the poor soils. Oak is the principal hardwood tree, while pitch pine is the principal conifer.
Land Use	This zone continues to experience a rapid expansion of urban and suburban development.

This Data Set shows boundaries of the Ecological Regions (Ecozones) of New York State and has been modified by ***LEA***.

2.15 RADON

Radon is a heavy, colorless, odorless, radioactive gas formed by the radioactive decay of radium. Radon is associated with specific geologic formations that contain granite, uranium minerals, certain shales, and phosphate related minerals. Radon, being a gas, can migrate to and accumulate in confined spaces such as building basements. Continued exposure to radon gas has been associated with increased lung cancer risk and possible genetic damage.

The USEPA has set a maximum action level of 4 picocuries per liter (pCi/l) in air. At concentrations above this level, the USEPA recommends remedial measures to lower the concentrations.

According to monitoring data completed by the NYS Department of Health, Bureau of Radiation Protection, the Kings County has an average indoor radon concentration of 0.6 pCi/l. Given this information, radon is not considered a significant environmental concern within the Subject Building.

2.16 ELECTROMAGNETIC FIELDS

Although there are currently no regulations concerning the proximity of residential structures to major sources of electromagnetic fields (EMFs) such as overhead high tension wires, high levels of EMFs are an unresolved public health issue. Some recent studies have linked the presence of elevated EMFs to an increased risk of certain cancers and other illnesses. Although studies are ongoing and no definitive conclusions have been reached, the existing evidence indicates that potential health risks may exist for individuals who are exposed to these fields. In any case, the general perception of a risk associated with major sources of EMFs can reduce the marketability and value of real estate.

No high tension wires or substations were noted on or adjacent to the Subject Property.

2.17 NEIGHBORING PROPERTIES

The properties surrounding the Subject Site are residential and commercial in nature. Property usage directly adjoining or nearby is as follows:

North of the Subject Site:	***Current Usage***	***Past Usage***
• Nondescript mixed-use, adjoining	Mixed use	Mixed use
• Dwelling	Residential	Residential
South of the Subject Site:		
• Dwelling, adjoining	Residential	Residential
East of the Subject Site:		
• Manhattan Avenue, adjoining	Roadway	Roadway
• Tony's Auto Body	Commercial	Commercial
West of the Subject Site:		
• Dwellings	Residential	Residential
• Kalmon Dolgin, adjoining	Real Estate Office	Commerical

Due to the mixed nature the surrounding properties, they may have the potential to present a recognized environmental condition at the Subject Property. None of the adjoining properties are currently listed on the NYSDEC or the USEPA databases.

3.0 CLIENT PROVIDED DOCUMENTS

The following section summarizes information provided by the client, Chris Cielepak, with regard to this Phase I ESA. ***LEA*** staff completed the Questionnaire pertaining to the site inspection, which can be found in Appendix H of this report. The Questionnaire is intended to assist in gathering information that may be pertinent to identifying recognized environmental conditions relating to the Subject Property.

3.1 TITLE RECORDS

Land title records provide information on previous ownership of a property. Typically, deeds signifying transfer of a land parcel are recorded in county files and can be researched to determine the identity of past owners. A "Chain of Title" is a continuous record of ownership for a specific parcel. Title record information associated with the Subject Property has not been provided to ***LEA*** by Chris Cielepak, and is beyond the scope of this report.

3.2 ENVIRONMENTAL LIENS, ACTIVITY, AND USE LIMITATIONS

Chris Cielepak has provided no information regarding environmental liens, activity, or use limitations in connection with the Subject Property.

3.3 SPECIALIZED KNOWLEDGE

Chris Cielepak has provided no specialized knowledge that pertains to recognized environmental conditions in connection with the Subject Property. ***LEA*** was not provided with or made aware of previous environmental assessments or other documentation that is material to recognized environmental conditions in connection with the Subject Property, except as present.

3.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

Chris Cielepak has provided ***LEA*** with no commonly known or reasonably ascertainable information within the local community about the environmental integrity of the Subject Property.

3.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

Chris Cielepak has provided no information to ***LEA*** regarding valuation reduction for environmental issues in connection with the Subject Property.

3.6 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

Chris Cielepak provided ***LEA*** with contact information for access to the Subject Property. The site inspection was conducted assisted by Karen, a representative of the property owner.

3.7 REASON FOR PERFORMING THIS PHASE I ESA

Chris Cielepak retained ***LEA*** to complete this Phase I Environmental Site Assessment in connection with a real estate transaction.

4.0 REVIEW OF REGULATORY AGENCY RECORDS AND DOCUMENTS

To determine if the Subject Property was listed, known, or suspected of being a hazardous waste site, federal and state databases were reviewed. In addition, a Freedom of Information Letter (FOIL) was sent to the New York City Department of Environmental Protection (NYCDEP) requesting a review of any records that may have been maintained by the agencies concerning the Subject Property.

The records search was conducted by Toxics Targeting, Inc. meeting the specific requirements of ASTM Standard Practice for Environmental Site Assessments, E-1527-05, including those associated with governmental databases, search distances, and data currency.

4.1 USEPA NATIONAL PRIORITY LIST AND CERCLA SITES

4.1.1 USEPA NPL Superfund Sites

The USEPA maintains a database of unmanaged and/or forsaken hazardous waste sites. The database is known as the National Priority List (NPL). Sites included in this list are given priority by the USEPA for remedial action under the Federal Superfund Program. A particular site will be included on the NPL if it equals or exceeds an established "hazard classification system" score, or if it was designated as a top environmental priority site, in a particular State. A site is classified as an NPL site if all of the following criteria are satisfied:

1. The U.S. Department of Health & Human Services issues a health advisory recommending that people be evacuated from the site to avoid exposure.
2. The USEPA determines that the site was a potentially significant environmental hazard.
3. The USEPA determines that site remediation was more cost-effective than removal.

There is one NPL listed site located within a one-mile radius of the Subject Property. Newtown Creek, ID# NYN000206282, is located 4,730 feet hydraulically down-gradient. Remediation is underway but not yet complete. Due to the hydraulic location relative to the Subject Property this site should not present a recognized environmental condition.

4.1.2 USEPA CERCLA Sites

The USEPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 was designed to allow the federal government to directly address any potential release of hazardous waste that may endanger public health or welfare; in order to "provide for liability, compensation, clean-up, and emergency response for hazardous substances released into the environment and clean-up of inactive hazardous waste disposal sites".

Examination of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database indicates that the Subject Site is not listed in the CERCLIS database. There is one CERCLIS listed site located within a ½-mile radius of the Subject Property. City Barrel, ID# NYD068298835, located 198 feet hydraulically side-gradient, is listed as having no further remedial action planned. Due to the hydraulic location and status of this facility, it should not present a recognized environmental condition to the Subject Property.

4.2 NYSDEC INACTIVE HAZARDOUS WASTE DISPOSAL SITES

The NYSDEC publishes a quarterly and annual report entitled "Inactive Hazardous Waste Disposal Sites in New York State" (IHWD), 2011, which lists all properties that have been found to contain, or are suspected of containing, significant amounts of hazardous or toxic contamination in one form or another.

The Subject Property is not listed as an IHWD site. There are eighteen (18) listed IHWD sites within a one-mile radius of the Subject Property, all of which are located hydraulically side and/or down-gradient and should not present recognized environmental condition to the Subject Property.

4.3 NYSDEC HAZARDOUS SUBSTANCE WASTE DISPOSAL SITES

The NYSDEC Hazardous Substance Waste Disposal Sites (HSWD) database was reviewed to determine if the Subject Property or any site located within a one-mile radius of the Subject Property is listed as a HSWD Site. This database lists properties that are currently under study by the NYSDEC Division of Hazardous Waste Remediation, for inclusion into the IHWD program, as described in section 4.2.

The Subject Property is not listed as a HSWD site. There is one listed HSWD site located within a one-mile radius of the Subject Property. City Barrel, Registry ID# N, located 188 feet hydraulically side-gradient, has an unknown remedial status. Based upon the hydraulic location this facility, relative to the Subject Property, it should not present a recognized environmental condition.

4.4 NYS BROWNFIELDS SITES

The New York State (NYS) Brownfields Program was developed for sites that are abandoned, idle, or under-used industrial and/or commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination. Programs included in the 2011 Brownfields Cleanup Program (BCP) are the Voluntary Cleanup Program (VCP) and the Environmental Restoration Program (ERP).

After a thorough investigation, it was determined that neither the Subject Property nor any property within a one-mile radius is listed as a Brownfields site.

4.5 NYS LANDFILLS AND SOLID WASTE FACILITIES

The database of NYS Landfills and Solid Waste facilities identified no such sites located within a ½-mile radius of the Subject Property.

4.6 NYSDEC SPILL AND LEAKING UST FILE

The NYSDEC Spill File was investigated for records of spills and leaking USTs located within a ½-mile radius of the Subject Property. A summary is presented in the table below:

NYSDEC Active Spills and Leaking USTs
Brooklyn, New York, within a ½-mile radius of the Subject Property

NYSDEC Spill #	Spill Type	Spill Name	Spill Location	Distance (feet)/ Direction from Site*
9703488	Leaking UST/spill to soil	Engine Co. 229 FDNY-DDC	76 Richardson Street	558/side
9007766	Leaking UST/spill to soil	Mobil S/S #17-FX9	550 Humboldt Street	996/side
1011266	Leaking UST/spill to soil	Sunoco Service Station	550 Humboldt Street	996/side
1205075	Spill to soil	John Huley	498 Leonard Street	1,245/down
0750535	Leak to soil	N 11th Street Sidewalk	204-214 North 11th Street	1,810/side
8908110	Spill to soil	Mobil	51 Kingsland Avenue	1,825/side
0703695	Spill to soil	Commercial Property	454 Driggs Avenue	1,930/down
0503901	Spill to soil	Property	55 Roebling Street	2,084/side
0330060	Spill to soil	Wolf Petroleum Corp	2 Bushwick Avenue	2,099/side
0208256	Spill to soil	99 Cent Store (Dollar Up Store)	640 Manhattan Avenue	2,164/down
0611495	Spill to soil	169-175 North 10th Street	169-175 North 10th Street	2,222/side
9502757	Leaking UST/spill to soil	Hess-Merit Station 32522	810 Metropolitan Avenue	2,241/side
9103785	Leaking UST/spill to soil	Feeder 61	Meeker Avenue & Leonard Street	564/side
0808463	Spill to soil	Construction Site	95 Bedford Avenue	2,130/side

*Direction noted is in relation to the hydraulic gradient of the groundwater flow.

4.6.1 NYSDEC On-Site Listed Spills and Leaking Underground Storage Tanks

There are no closed or active NYSDEC listed spills or leaking underground storage tanks (USTs) located at the Subject Property.

4.6.2 NYSDEC Off-Site Listed Spills

There are eight active NYSDEC listed spills located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

4.6.3 NYSDEC Off-Site Listed Leaking Underground Storage Tanks

There are six active NYSDEC listed leaking USTs located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

4.7 NYSDEC REGISTERED CHEMICAL BULK STORAGE, MAJOR OIL STORAGE, AND PETROLEUM BULK STORAGE FACILITIES

The NYSDEC publishes a listing of all registered Chemical Bulk Storage (CBS), Major Oil Storage (MOS), and Petroleum Bulk Storage (PBS) Facilities in New York State, every year. This listing was investigated to determine whether the Subject Property or any adjoining properties are listed as such facilities.

After a thorough investigation, it was determined that neither the Subject Property nor any adjoining property is listed at the NYSDEC as a CBS, MOS, or PBS Facility.

4.8 NYS AND USEPA RCRA HAZARDOUS WASTE GENERATORS, TRANSFER, STORAGE, AND DISPOSAL SITES AND CORRACT SITES

Resource Conservation and Recovery Act (RCRA) 42 U.S.C. §6901 et seq. (1976) The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

4.8.1 NYS and USEPA RCRA Generators

The NYS and USEPA listing of Resource Conservation and Recovery Act (RCRA) Hazardous Waste Generators, dated 2011, was reviewed to determine whether the Subject Property or any adjoining properties are listed as State Facilities. After a thorough investigation, it was determined that neither the Subject Property nor any adjoining property is listed as a RCRA Hazardous Waste Generator.

4.8.2 NYS and USEPA RCRA TSD Sites and CORRACT Sites

The NYS and USEPA 2011 listing of Resource Conservation and Recovery Act (RCRA) Facilities with Corrective Actions (CORRACTs) and the NYSDEC 2010 listing of RCRA Treatment, Storage, and Disposal (TSD) Sites was reviewed to determine whether the Subject Property or properties within a one-mile radius are listed as state or federal facilities. After a thorough investigation, it was determined that neither the Subject Property nor any property within a one-mile radius is listed as a RCRA TSD or CORRACT site.

4.9 USEPA EMERGENCY RESPONSE NOTIFICATION SYSTEM

The USEPA maintains a database of all spills to which the agency has responded. This database was investigated to determine the presence of an emergency response at the Subject Property.

After an investigation according to street address, it was determined that the Subject Property is not listed on the ERNS database.

4.10 USEPA TOXIC RELEASE INVENTORY SITES

Section (§) 313 of the Emergency Planning and Community Right-to-Know Act (also known as Title III) of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (Public Law 99-499) requires the USEPA to establish an inventory of toxic chemical emissions from certain facilities. The reporting requirement applies to owners and operators of facilities that have ten or more full-time employees that are in Standard Industrial Classification (SIC) codes 20 through 39 (i.e., manufacturing facilities) and that manufacture, import, process, or otherwise use a listed toxic chemical in excess of specified threshold quantities. Inclusion in the list does not necessarily indicate that there has been a release of a toxic material to the environment at the site, only that listed chemicals have been used.

After a thorough investigation, it was determined that neither the Subject Property nor any property within a ¼-mile radius is listed as a TRI Facility.

4.11 NYS WASTEWATER DISCHARGE SITES

Wastewater treatment is one of the most common forms of pollution control. Its basic function is to speed up the natural purification processes. In many instances wastewater treatment is a two-stage process. In the primary stage of wastewater treatment, solids are allowed to settle and are then removed from wastewater. The secondary stage allows biological processes to further purify wastewater. The NYSDEC database identifies nearby Wastewater Discharge Facilities.

After a thorough investigation, it was determined that neither the Subject Property nor any property within a ⅛-mile radius is listed as a Wastewater Discharge Site.

4.12 USEPA AIR DISCHARGE SITES

The USEPA Aerometric Information Retrieval System (AIRS) database lists information on each air emission facility and indicates the type of air pollutant emission. Compliance information is also provided on each pollutant as well as the facility itself.

There is one site located within a ¼-mile of the Subject Property listed as an Air Discharge Site. Elli Woodworking Industries, ID# 36047P0003, located 595 feet north of the Subject Site, is listed as releasing sip source VOCs. The facility is in operation and with active violations regarding both emissions and procedural compliance. Due to the resource affected and lack of traceability, no determination can be made as to the environmental threat to the Subject Property.

4.13 USEPA CIVIL AND ADMINISTRATIVE ENFORCEMENT DOCKET FACILITIES

This Civil and Administrative Enforcement Docket database is the USEPA's system for tracking administrative and judiciary cases filed on behalf of the agency by the Department of Justice.

There is one property located within a ⅛-mile radius listed as a Civil & Administrative Enforcement Docket sites. NYC BD of ED-Junior High School, ID #NY0000379990 is in violation of asbestos. This case was concluded in 1999 and should not present a recognized environmental condition at the Subject Property.

4.14 FEDERAL ENGINEERING CONTROL AND INSTITUTIONAL CONTROL REGISTRIES

The completion of site cleanup activities may include the implementation of engineering controls or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the instructional controls.

Neither the Subject Property nor any property located within a ½-mile radius of the Subject Property was identified on Federal Engineering Control or Institutional Control Registries.

4.15 TRIBAL LANDS

There are no Tribal Lands within a one-mile radius of the Subject Property. This was further confirmed by a search of Federal and State Tribal Land records, please refer to Figure 8.0.

4.16 ORPHAN SITES

Orphan Sites are facilities that have been identified on the Toxics Targeting Inc. (TTI) Environmental Database Report; however, due to poor or inadequate address information, the facilities could not be mapped by TTI with relation to the Subject Property. Orphan Sites identified on the Database Report were reviewed, and none appear to be located at the Subject Property.

4.17 REGULATORY AGENCY DOCUMENTS REQUESTS

On February 26, 2013, ***LEA*** mailed a request to the New York City Department of Environmental Protection (NYCDEP) to view any records pertaining to the environmental condition of the Subject Property under the Freedom of Information Act (FOIA).

On April 8, 2013, ***LEA*** received a response dated March 22, 2013, from the NYCDEP stating that no files are maintained pertinent to the environmental condition of the Subject Property.

5.0 SITE HISTORY

According to the New York City Department of Building records, the NYCDEP, and Select Phone Directory listings, past and present uses of the Subject Property are as follows:

1887	According to Sanborn Fire Insurance Maps, the Subject Building was constructed circa 1887 as a two-story residential dwelling.
1920	According to the NYC Building Department, the estimated construction date for the Subject Property is circa 1920.
2005	The Subject Property was given to NYC E-Designation Listings: E-138 HAZMAT (for underground gasoline storage tanks) and E-138 AIR (for air quality-operable window limitations).

Prospective Purchaser Representative Interview:
Is not applicable as the property is not for sale.

Owner Interview:
According to Chris Cielepak's (property owner) partner Hubert (last name not provided), the plan is to construct a multi-family residential apartment on the Subject Property along with an underground parking facility. Prior to redevelopment, the property will be rented out on a month to month basis.

Historical Usage Summary:
The Subject Property has been occupied since at least 1887 for multi-family residential purposes. Past usage of the Subject Site should not present a recognized environmental condition at the Subject Property.

5.1 CITY DIRECTORIES

City directories are reference books published yearly for most major metropolitan areas and contain listings of businesses and landowners by name and address. City directories are useful in determining the historical use and/or occupant(s) of a given property. ***LEA*** contacted Environmental Data Resources, Inc. (EDR) to provide a summary of City Directories available to them for addresses located along Manhattan Avenue. The EDR City Directory Abstract included listings from 1928-2012

A synopsis of EDR's City Directory is as follows:

Year	Listing
1928	- Cacioppo Jos Electrician - Spiro Allen
1960	- Bianculli Mary - Marotta Albert
1970	- Bianculli Mary
1976	- Casanova Stephanie
1985	- Casanova Stephanie
1992	- Slavov Aniela - Talalaj Czeslaw
1997	- Aleksandrowtcz Stanislaw - Pompa Gustav - Slavov Aniela
2000	- Alexander Plecenik - Aniela Slavov - August Wicek - Ryszard Clesielska
2005	- Plecenik Alexander - Wiacek Augustyn

5.2 SANBORN FIRE INSURANCE MAP REVIEW

Sanborn® Fire Insurance Maps are an additional source of historical use information available for most developed areas. The maps were used for insurance purposes and indicate structures by name, type of construction, property usage, and address. ***LEA*** contracted EDR for a search of Sanborn Fire Insurance Maps adequate for the Subject Property and surrounding areas. According to Sanborn Historical Maps reviewed from 1887 - 2007, past uses of the Subject Site and surrounding properties are as follows:

Date	Subject Property	Surrounding Properties			
		North	South	East	West
1887	Maintains a two-story dwelling with the same footprint as seen today	Undeveloped; Dwellings	Undeveloped; Meeker Avenue	Manhattan Avenue; Stable; Stores	Undeveloped
1905	Maintains the same two-story dwelling. A stable is now located on the northwest quadrant of the Property	Dwellings	Junkyard; Stores; Meeker Avenue	Manhattan Avenue; Stores; Bottle Storage	Undeveloped
1916	No Change	Barrel Storage; Dwellings	Rags & Paper; Dwellings; Stores; Meeker Avenue	Manhattan Avenue; Stores	Undeveloped
1942	The Subject Property doubled in size, expanding west. The stable is gone and replaced by a shed labeled 'old'	1 ½-story Garage; Stores and Dwellings	No Change	No Change	Lumber Yard
1951	No change to the Building. The 'old shed' is gone.	Dwellings and Stores	No Change	No Change	Dry Kilns; Wood Working Shop
1965	No Change	Factory; Stores; Dwellings	No Change	No Change	Parking
1978 To Present	No Change	No Change	No Change	No Change	Manufacturing

5.3 HISTORICAL TOPOGRAPHIC MAP REVIEW

Historical Topographic Maps are an additional source of useful information regarding historical site usage. The maps are generated and updated by the United States Geological Survey (USGS). Scale for the maps ranged from 1:24,000 to 1:62,500. The general elevation of the Subject Site and surrounding areas was noted as approximately 17 feet above sea level. ***LEA*** maintains Historical Topographic Maps in their Historical Database adequate for the Subject Property and surrounding areas.

A review of a historical topographical map from 1900 and 1967 did not show detailed information as to historical structures and usage of the Subject Property.

5.4 HISTORICAL AERIAL PHOTOGRAPH REVIEW

Aerial Photographs are often taken annually or bi-annually by government agencies or private entities and may be used to evaluate changes in land use patterns at specified dates to identify visible areas of potential environmental concern. A search for historical aerial photographs depicting the Subject Property and vicinity was conducted by ***LEA***. It should be noted that the scale of the available aerial photographs precludes the distinct identification of structures and/or land uses on or in the vicinity of the Subject Property.

A review of an aerial photograph from 1994 showed the following:

Based upon the scale of the aerial photographs, on-site operations could not be identified.

5.5 NYC ACRIS RECORDS

The NYC Automated City Register Information System (ACRIS) maintains property records and document images for the five boroughs from 1966 to the present. The database was searched and is included in the table below.

Reel/Pg/File	CRFN	Lot	Partial	Recorded / Filed	Document Type	Pages	Party1	Party2
	2013000022506	30	ENTIRE LOT	1/16/2013 2:35:27 PM	DEED	5	GUIDICE, ROSEMARIE B	GUIDICE, ROSEMARIE B
	2005000508690	30	ENTIRE LOT	9/13/2005 9:13:57 AM	DEED	4	415 MANHATTAN AVENEUE CORP.	GUIDICE, TENANTS IN COMMON , MICHAEL
5913/1414		30	ENTIRE LOT	11/25/2002	DEED	3	GUIDICE, MICHAEL	415 MANHATTAN AVE CORP
1942/1269		30	ENTIRE LOT	12/24/1986	MORTGAGE	7	GUIDICE, MICHAEL	POLISH &SLAVIC FED CRED
1942/1267		30	ENTIRE LOT	12/24/1986	DEED	2	CASANOVA, STEPHANIE/EXEC	GUIDICE, MICHAEL
610/1558		30	ENTIRE LOT	1/29/1973	DEED	2	MAROTTA ALBERT	CASANOVA STEPHANIE
562/681		30	ENTIRE LOT	6/13/1972	MORTGAGE	4	MAROTTA ALBERT	BIANCULLI MARY
562/679		30	ENTIRE LOT	6/13/1972	DEED	2	BIANCULLI MARY	MAROTTA ALBERT
273/278		30	ENTIRE LOT	10/21/1966	MORTGAGE	8	SANTELLI JOHN O	SANTORELLI ROSE M

5.6 LITTLE E DESIGNATION SITES

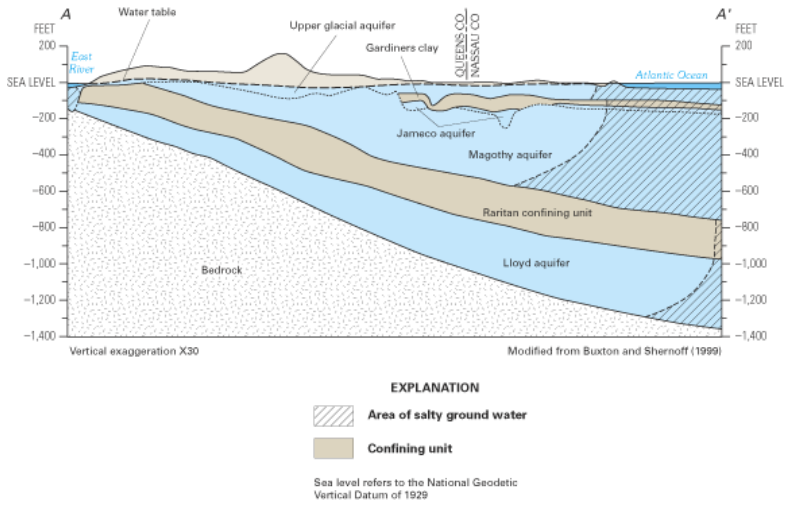
Lots designated with an "E" on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts. The NYC records were searched thoroughly and ***LEA*** has determined the Subject Property is designated as a Little "E" site. This site is listed twice as an E-Designation site: E-138, Hazmat for underground gasoline storage tanks testing protocol and E-138-Noise for air quality operable window limitations. Both E-Designation listings were issued on May 11, 2005.

6.0 FAIR MARKET VALUE

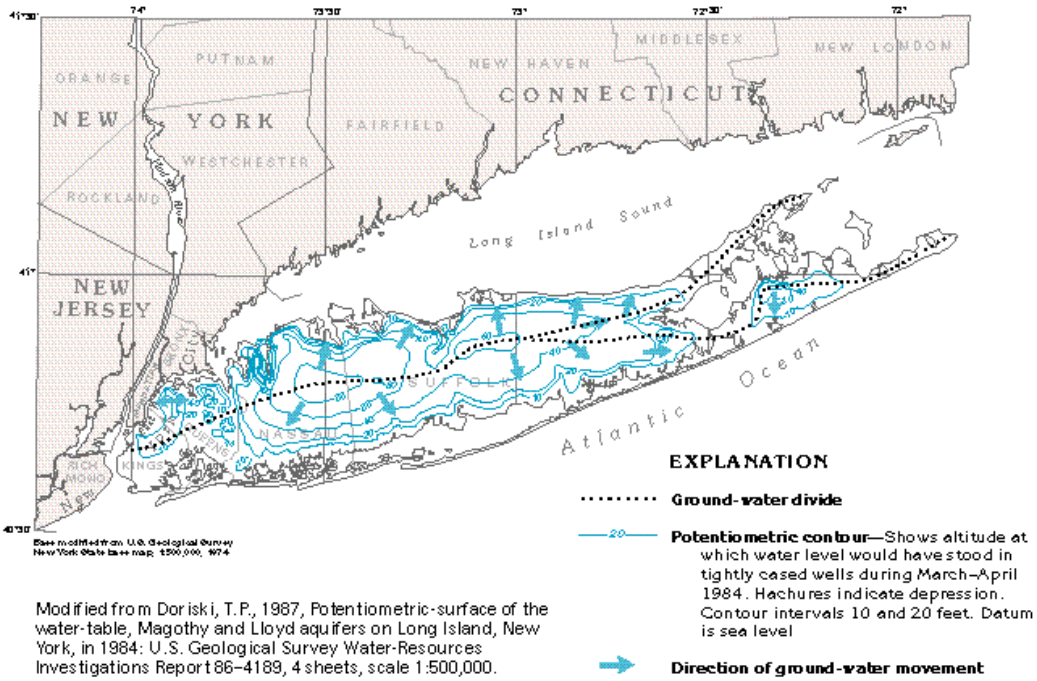
The Subject Property is not for sale; therefore an evaluation of the environmental integrity of the property cannot be made based upon market value.

7.0 SITE HYDROGEOLOGY

Kings County is located in the Atlantic Coastal Plain physiographic province that is characterized by low hills of unconsolidated sands, gravel, and silt. According to Franke (1972), regionally, the near-surface sediments consist of the Upper Glacial deposits that are characterized by southward sloping deposits of sand, gravel, and silt. The Upper Glacial deposits have a maximum thickness of 600 feet. They are underlain by the Magothy, Raritan, and Lloyd Formations. The Gardeners clay and the Jameco gravel separate the Upper Glacial deposits and the Magothy Formation along the southwest portion of Long Island. Due to less surfacial contamination and higher well yields, the Magothy aquifer is the main supply for drinking and industrial water. Consequently, the USEPA has identified it as a Sole Source Aquifer. The Subject Site is in the Upper Glacial aquifer. Pump test data suggests hydraulic conductivity between the Magothy and Upper Glacial aquifers. However, discontinuous clay lenses may prevent this interaction in some areas.



According to groundwater contour maps provided by the NYCDEP and the NYSDEC, Topographic Quadrangles provided by the USGS, and previous work performed by ***LEA*** in the area, the Subject Property has an elevation of approximately 17 feet above mean sea level. Regional groundwater is estimated to be less than ten feet below grade at the Subject Property and flowing in a northwesterly direction, towards the East River. A site specific hydrogeologic study is warranted to confirm localized on-site groundwater flow direction, which is beyond the scope of this report.



Modified from Doriski, T.P., 1987, Potentiometric-surface of the water-table, Magothy and Lloyd aquifers on Long Island, New York, in 1984: U.S. Geological Survey Water-Resources Investigations Report 86–4189, 4 sheets, scale 1:500,000.

Figure 72. The potentiometric surface of the upper glacial aquifer slopes gently to the north and south from a central high, except in the western part of the island where ground-water withdrawals have lowered the water table and created cones of depression.

7.1 GROUNDWATER USE

No active drinking water wells were noted at the Subject Property or at any of the adjoining sites during the site inspection, although it remains possible that private wells exist. The Subject Building, as well as the buildings in the vicinity of the Subject Site, is served with municipal water from the City of New York. Groundwater is not utilized for any purpose at the Subject Site. ***LEA*** did not observe any monitoring wells at the Subject Property at the time of our site reconnaissance.

8.0 SUMMARY OF FINDINGS FROM RECONNAISSANCE AND RESEARCH

Based on the completion of the Phase I Environmental Site Assessment, ***Laurel Environmental Associates, Ltd.*** has come to the following conclusions:

- The Subject Property maintains one (1) two-story walk up three family residential dwelling with a footprint of approximately 800 square feet situated on a parcel approximately 2,500 square feet in area. The building was constructed circa 1887 for residential purposes and fronts along Manhattan Avenue. The site is relatively flat, covered with the building, a partially paved rear yard, concrete sidewalks and a side fire egress. The Subject Property is located in a residential and commercial area of the Williamsburg Section of Brooklyn, New York.

- The building is serviced with public water from the City of New Yorkand with electricity and natural gas from Consolidated Edison. The Subject Building is heated by three natural gas fired burners located in the basement.

- Housekeeping was noted to be fair throughout the building and grounds-typical of a vacant building undergoing minor renovations.

- The Subject Property maintains a grass yard located on the west side of the Subject Property, observed to be relatively healthy with no signs of obvious distress.

- Sanitary waste has been handled by public sewer since construction of the Subject Building circa 1887. Based on the historical usage as a residence, any discharge into a possible on-site sanitary system does not pose a significant environmental condition.

- Storm water and roof run-off is handled by natural drainage and runoff to Manhattan Avenue.

- No floor drains were noted in the Subject Building during the on-site inspection.

- The Subject Property was recently vacated and undergoing renovations.

- The Subject Property has been used for residential purposes since construction circa 1887.

- No chemical storage was noted within the Subject Building or on the grounds during the on-site inspection. Former chemical storage is assumed to have been limited to typical housekeeping supplies.

- No biohazardous waste is generated or stored at the Subject Property.

- No drum storage was noted during the site inspection.

- No fill ports and/or vent pipes, which indicate the presence of USTs or ASTs, were noted at the Subject Property at the time of the site inspection. Based upon our site reconnaissance, interviews, and review of state and local records, LEA identified no evidence of existing USTs or ASTs at the Subject Property. Based upon the age of the building, heat was most likely supplied by coal prior to conversion to either an oil-fired system or natural gas.

- No emergency generators and associated tanks were observed during our site reconnaissance.

- There are no pad or pole-mounted transformers located at the Subject Property. The building is illuminated with fluorescent and incandescent lighting. Light ballasts may contain PCBs given the buildings age.

- No friable or non-friable suspect asbestos containing materials were noted during the inspection other than roofing materials. However, due to proposed demolition of the building, an asbestos survey should be conducted and must be conducted prior to demolition.

- Due to the age of the building, lead-based paint may be present within the Subject Building. The majority of the painted surfaces were being re-painted during LEA's inspection and were observed to be in excellent condition. A lead based survey should be conducted prior to demolition or renovations.

- Based on ***LEA's*** limited observations, there was no visible evidence of mold and/or mold related odors at the time of the site inspection.

- According to maps provided by the NYSDEC, the Subject Property does not reside within a fresh water or tidal wetlands area. An inspection of the Subject Property by LEA did not observe the presence of wetlands within its boundaries. There are no documented wetlands located within a ¼-mile radius of the Subject Property.

- According to monitoring data completed by the NYS Department of Health, Bureau of Radiation Protection, the Kings County has an average indoor radon concentration of 0.6 pCi/l. Given this information, radon is not considered a significant environmental concern within the Subject Building.

- No high tension wires or substations were noted on or adjacent to the Subject Property.

- Due to the mixed nature the surrounding properties, they may have the potential to present a recognized environmental condition at the Subject Property. None of the adjoining properties are currently listed on the NYSDEC or the USEPA databases.

- There is one NPL listed site located within a one-mile radius of the Subject Property. Newtown Creek, ID# NYN000206282, is located 4,730 feet hydraulically down-gradient. Remediation is underway but not yet complete. Due to the hydraulic location relative to the Subject Property this site should not present a recognized environmental condition.

- Examination of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database indicates that the Subject Site is not listed in the CERCLIS database. There is one CERCLIS listed site located within a ½-mile radius of the Subject Property. City Barrel, ID# NYD068298835, located 198 feet hydraulically side-gradient, is listed as having no further remedial action planned. Due to the hydraulic location and status of this facility, it should not present a recognized environmental condition to the Subject Property.

- The Subject Property is not listed as an IHWD site. There are eighteen (18) listed IHWD sites within a one-mile radius of the Subject Property, all of which are located hydraulically side and/or down-gradient and should not present recognized environmental condition to the Subject Property.

- The Subject Property is not listed as a HSWD site. There is one listed HSWD site located within a one-mile radius of the Subject Property. City Barrel, Registry ID# N, located 188 feet hydraulically side-gradient, has an unknown remedial status. Based upon the hydraulic location this facility, relative to the Subject Property, it should not present a recognized environmental condition.

- After a thorough investigation, it was determined that neither the Subject Property nor any property within a one-mile radius is listed as a Brownfields site.

- The database of NYS Landfills and Solid Waste facilities identified no such sites located within a ½-mile radius of the Subject Property.

- There are no closed or active NYSDEC listed spills or leaking underground storage tanks (USTs) located at the Subject Property.

- There are eight active NYSDEC listed spills located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

- There are six active NYSDEC listed leaking USTs located within a ½-mile radius of the Subject Property. Due to the geographic and hydraulic locations, relative to the Subject Property, magnitude of spill and/or resource affected, none should present a recognized environmental condition.

- After a thorough investigation, it was determined that neither the Subject Property nor any adjoining property is listed at the NYSDEC as a CBS, MOS, or PBS Facility.

- After a thorough investigation, it was determined that neither the Subject Property nor any adjoining property is listed as a RCRA Hazardous Waste Generator.

- After a thorough investigation, it was determined that neither the Subject Property nor any property within a one-mile radius is listed as a RCRA TSD or CORRACT site.

- After an investigation according to street address, it was determined that the Subject Property is not listed on the ERNS database.

- After a thorough investigation, it was determined that neither the Subject Property nor any property within a ¼-mile radius is listed as a TRI Facility.

- After a thorough investigation, it was determined that neither the Subject Property nor any property within a ⅛-mile radius is listed as a Wastewater Discharge Site.

- There is one site located within a ¼-mile of the Subject Property listed as an Air Discharge Site. Elli Woodworking Industries, ID# 36047P0003, located 595 feet north of the Subject Site, is listed as releasing sip source VOCs. The facility is in operation and with active violations regarding both emissions and procedural compliance. Due to the resource affected and lack of traceability, no determination can be made as to the environmental threat to the Subject Property.

- There is one property located within a ⅛-mile radius listed as a Civil & Administrative Enforcement Docket sites. NYC BD of ED-Junior High School, ID #NY0000379990 is in violation of asbestos. This case was concluded in 1999 and should not present a recognized environmental condition at the Subject Property.

- Neither the Subject Property nor any property located within a ½-mile radius of the Subject Property was identified on Federal Engineering Control or Institutional Control Registries.

- There are no Tribal Lands within a one-mile radius of the Subject Property. This was further confirmed by a search of Federal and State Tribal Land records, please refer to Figure 8.0.

- On April 8, 2013, **LEA** ***received*** a response dated March 22, 2013, from the NYCDEP stating that no files are maintained pertinent to the environmental condition of the Subject Property.

- Past usage of the Subject Site should not present a recognized environmental condition at the Subject Property.

- A review of a historical topographical map from 1900 and 1967 did not show detailed information as to historical structures and usage of the Subject Property.

- Based upon the scale of the aerial photographs, on-site operations could not be identified.

- The Subject Property is not for sale; therefore an evaluation of the environmental integrity of the property cannot be made based upon market value.

- According to groundwater contour maps provided by the NYCDEP and the NYSDEC, Topographic Quadrangles provided by the USGS, and previous work performed by LEA in the area, the Subject Property has an elevation of approximately 17 feet above mean sea level. Regional groundwater is estimated to be less than ten feet below grade at the Subject Property and flowing in a northwesterly direction, towards the East River.

9.0 CONCLUSIONS

Based on the information developed and provided as part of this Phase I Environmental Site Assessment, ***LEA*** has reached the following conclusions regarding recognized areas of environmental concern at the Subject Property, 415 Manhattan Avenue, Brooklyn, New York 11222:

Recognized Environmental Conditions	***Potential Impacts***
• E-Designation	High Risk
• Potential former USTs	Low Risk
• Possible Asbestos Containing Materials	Low Risk
• Lead based paints	Low Risk

10.0 RECOMMENDATIONS

Based on the above conclusions ***LEA*** recommends the following:

1. Conduct a Geophysical Survey to check for possible USTs or other anomalies at the site.
2. Utilizing a 420M Limited access Geoprobe conduct at least five soil borings within the property boundary to determine the soil conditions.
3. Utilizing a 420M Geoprobe collect groundwater from three locations to determine groundwater quality and flow direction.
4. Conduct a soil vapor survey, with two subslab, one indoor and one outdoor air samples to determine the soil vapor and air quality on-site.
5. An asbestos survey must be conducted prior to demolition.
6. Submit all samples to a NYS Certified laboratory.
7. Review results and write a report with remedial objectives clearly outlined.
8. Submit data and report the NYC OER offices for review.

Opinion of Impacts

The environmental professionals who have conducted the site visit and reviewed the results of the data collection effort have concluded that the aforementioned are "recognized environmental conditions". The recognized environmental conditions have been quantified based on a range of qualitative impacts on the soil, water, and air resources or structures on the Subject Property.

As per our contractual agreement, ***LEA*** has provided recommendations for further study above. It is up to the user of this report, based on the individuals risk tolerance, fiduciary responsibility, or the applicable law, to determine the extent of further inquiry.

11.0 LIMITATIONS

The purpose of this investigation was to identify potential sources of contamination at the Subject Property and to satisfy all appropriate inquiry standards set forth in Section 9601 (35)(b) of CERCLA. The findings and conclusions set forth in this report are based upon information that was available to ***LEA*** during the inspection of the property and review of selected records and documents. If new information becomes available concerning the environmental integrity of the Subject Property after this date, or if the Subject Property is used in a manner other than that which is identified in this report, the findings and conclusions contained herein may have to be modified. Additionally, while this investigation was performed in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry, ***LEA*** cannot guarantee that the property is completely free of hazardous substances or other materials or conditions that could subject Chris Cielepak to potential liability. The presence or absence of any such condition can only be confirmed through the collection and analysis of air, soil, and/or groundwater samples, which was beyond the scope of this investigation.

Limiting Conditions:

The preceding Environmental Site Assessment is subject to the following conditions and to such other conditions and limiting conditions as are set forth in the report.

1. ***Laurel Environmental Associates, Ltd.*** assumes no responsibility for hidden or latent conditions or misrepresentation by the property owner, his representatives, public information officials, or any authority consulted in connection with the compilation of this report.

2. This report is prepared for the sole and explicit purpose of assessing the potential liability with respect to the suspected presence of hazardous materials that may pose a potential health or environmental threat. It is also prepared for evaluating collateral risk associated with the same. This report is not intended to have any direct bearing on the value of the property.

3. The Environmental Site Assessment and the Environmental Site Assessment Report are for the sole use of the Principal Parties. No disclosure or reproduction shall be made of the preceding report without the prior written consent of ***Laurel Environmental Associates, Ltd.***

4. ***Laurel Environmental Associates, Ltd.*** or any representative of ***Laurel Environmental Associates, Ltd.*** is not required to give testimony with reference to the opinions expressed herein without prior written arrangement.

5. ***Laurel Environmental Associates, Ltd.*** cannot be liable for information known only to the site owner or operator and not shared with ***Laurel Environmental Associates, Ltd***.

12.0 TERMS AND CONDITIONS

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify, to the extent feasible pursuant to the processes described herein to recognize environmental conditions, which are significant adverse environmental concerns in connection with the Subject Property. This practice is intended to permit the user to satisfy one of the requirements to qualify for the innocent landowner defense to CERCLA liability: that is, to undertake "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice." It also is intended to assist the user in developing information about the environmental condition of the Subject Property. This Phase I ESA is site specific in that it relates only to the environmental assessment of the property indicated herein.

12.1 SPECIAL TERMS AND CONDITIONS

This Phase I ESA was prepared essentially in accordance with ASTM Standards on Environmental Site Assessments: Phase I Environmental Site Assessment Process as set forth in E1527-05. No *environmental site Assessment* can wholly eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with a *property*. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for *recognized environmental conditions* in connection with a *property*, and this practice recognizes reasonable limits of time and cost.

12.2 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

This Phase I ESA was not intended to be in strict accordance with ASTM, be all inclusive, identify all potential concerns, or eliminate the possibility that the Subject Property may have environmental problems. Although ***Laurel Environmental Associates, Ltd.*** has taken great care to identify such concerns or problems, it is possible that conditions un-permitted, undocumented, not observed, or otherwise concealed on the Subject Property could exist. Additional information which was not found or made available to ***LEA,*** may result in a modification of the conclusions and recommendations presented.

12.3 LIMITING CONDITIONS AND METHODOLOGY USED

This Phase I ESA was prepared in a manner consistent with the level of skill ordinarily exhibited by members of the environmental auditing profession in this geographic region. No representations, expressed or implied, and no warranty or guarantee is included or intended in connection with this report. ***LEA*** cannot be responsible for any unauthorized use of, any misrepresentation of the information, or the information contained in this report. The information contained in this report has been obtained from readily ascertainable public sources, interviews, and from visual observations of the Subject Property, that may have been limited by secured areas, overgrown vegetation, or by other obstructions. Although great care has been taken by ***LEA*** in compiling and checking the information contained in this report to ensure that it is current and accurate, ***LEA*** disclaims any and all liability for any errors, omissions, or inaccuracies of such information and data, whether attributable to an advertence or otherwise, and for any consequences arising there-from. It is understood that ***LEA*** makes no representations or warranties of any kind, including, but not limited to, the warranties of fitness for a particular purpose of merchantability, nor should any such representation or warranty be implied with the respect to customer, it is employees or agents use thereof. ***LEA*** shall not be liable for any special, consequential, or exemplary damages resulting in whole or in part from customer use of the data. This report does not constitute a legal opinion.

13.0 REFERENCES

American Society for Testing and Materials Phase I Standards, ASTM E1527-05. 2006

Bing, http://www.bing.com/maps/, Site Location, February 2013

Doriski, T.P., 1987. Potentiometric surface of the water table, Magothy and Lloyd aquifers on Long Island, New York in 1984: U.S. Geological Survey Water Resource Investigations Report 86-4189, 4 sheets, scale 1:500,000

EDR Sanborn Fire Insurance Maps, Reviewed February 2013

Franke, O.L., 1972. Regional Rates of Ground Water Movement on Long Island, New York: U.S. Geological Survey Prof. Paper 800-C

Franke, O.L. and McClymonds, N.E., 1972. Summary of hydrologic situation on Long Island, New York as a guide to water management alternatives: U.S. Geological Survey Prof. Paper 627-F, 59p

Google Earth 2009, Aerial Photographs, February 2013

Hubert (last name not provided) Interview during the site inspection, February 2013

Microsoft Research Maps, http://msrmaps.com/Default.aspx, Topographic Maps, February 2013

NYC ACRIS, Reviewed February 2013

NYC Department of Buildings, Reviewed, February 2013

NYCDEP FOIL, Request, February 2013

NYSDEC Ecological Regions (Ecozones) of New York State: Original boundaries and information taken from Will et al (1982) and Dickinson (1983) and modified by John Ozard of the New York State Department of Environmental Conservation.

RealQuest® records, http://www.realquest.com/jsp/rq.jsp?&client=&action=switch&page=main, Reviewed February 2013

Select Phone, Version 2.4, Northeast, Info USA, Reviewed, February 2013

Toxics Targeting, Inc. Environmental Report, Received February 2013 Search of all Federal, State and local databases to meet ASTM E1527-05 requirements

USFWS, Wetlands On-line Mapper, http://wetlandsfws.er.usgs.gov/wtlnds/launch.html, February 2013

USGS, Brooklyn, New York Topographical Quadrangle Map, 1969, Photorevised 1979

14.0 DEFINITIONS

Abandoned Property – *property* that can be presumed to be deserted, or an intent to relinquish possession or control can be inferred from the general disrepair or lack of activity thereon such that a reasonable person could believe that there was an intent on the part of the current owner to surrender rights to the *property*.

Activity and use limitations – legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances in the soil or ground water on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or ground water on the property.

Actual knowledge – the knowledge actually possessed by an individual who is a real person, rather than an entity. Actual knowledge is to be distinguished from constructive knowledge that is knowledge imputed to an individual or entity.

Adjoining properties – any real property or properties the border of which is contiguous or partially contiguous with that of the property; or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them.

Aerial photographs – photographs taken from an aerial platform with sufficient resolution to allow identification of development and activities of areas encompassing the property. Aerial photographs are often available from government agencies or private collections unique to a local area.
See 8.3.4.1 of this practice.

All appropriate inquiry – that inquiry constituting "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in CERCLA, 42 USC § 9601(35) (B), that will qualify a party to a *commercial real estate* transaction for one of the threshold criteria for satisfying the LLPs to CERCLA liability (42 USC § 9601(35)(A) & (B) §9607(b) (3), §9607(q); and §9607(r)), assuming compliance with other elements of the defense.
See Appendix X1 of this practice.

Approximate minimum search distance – the area for which records must be obtained and reviewed pursuant to Section 8 subject to the limitations provided in that section. This may include areas outside the property and shall be measured from the nearest property boundary. This term is used in lieu of radius to include irregularly shaped properties.

Bona Fide prospective purchaser liability protection – (42 U.S.C. §9607(r) – a person may qualify as a bona fide prospective purchaser if, among other requirements, such person made "all appropriate inquiries into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practice." Knowledge of contamination resulting from all appropriate inquiry would not generally preclude this liability protection. A person must make all appropriate inquiry on or before the date of purchase. The facility must have been purchased after January 11th, 2002.
See ASTM E1527-05 Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

Brownfields amendments – amendments to CERCLA pursuant to the Small Business Liability Relief and Brownfields Revitalization Act, Pub. L. No. 107-118 (2002), 42 U.S.C. §§9601 *et seq*.

Building department records – those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property. Often building department records are located in the building department of a municipality or county. See 8.3.4.7.

Commercial real estate - any real *property* except a *dwelling* or *property* with no more than four dwelling units exclusively for residential use (except that a dwelling or property with no more than four dwelling units exclusively for residential use is included in this term when it has a commercial function, as in the building of such dwelling for profit). This term includes but is not limited to undeveloped real property and real property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential use when it has a commercial function, as in the building of such dwellings for profit.

Commercial real estate transactions – a transfer of title to or possession of real property, except that it does not include transfer of title to or possession of real property with respect to an individual dwelling or building containing fewer than five dwelling units, nor does it include the purchase of a lot or lots to construct a dwelling for occupancy by a purchaser, but a commercial real estate transaction does include real property purchased or leased by person or entities in the business of building or developing dwelling units.

Comprehensive Environmental Response, Compensation and Liability Information Systems (CERCLIS) – the list of sites compiled by USEPA that USEPA has investigated or is currently investigating for potential hazardous substance contamination for possible inclusion on the National Priorities List.

Construction debris – concrete, brick, asphalt, and other such building materials discarded in the construction of a building or other improvement to property.

Contaminated public wells – public wells used for drinking water that have been designated by a government entity as contaminated by hazardous substance (for example, chlorinated solvents), or as having water unsafe to drink without treatment.

Contiguous property owner liability protection-(42 U.S.C. §9607(q))-a person may qualify for the *contiguous property owner liability protection* if, among other requirements, such person owns real property that is contiguous to, and that is or may be contaminated by hazardous substance from other real property that is not owned by that person. Furthermore, such person conducted *all appropriate inquiry* at the time of acquisition of the property and did not know or have reason to know that the property was or could be contaminated by a *release* or threatened release from the contiguous property. The all appropriate inquiry must not result in knowledge of contamination. If it does, then such person did "know" or "had reason to know" of contamination and would not be eligible for the *contiguous property owner liability protection*.
See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

CORRACTS list – a list maintained by EPA of hazardous waste treatment, storage, or disposal facilities and other RCRA-regulated facilities (due to past interim status or storage of hazardous waste beyond 90 days) that have been notified by the U.S. Environmental Protection Agency to undertake corrective action under RCRA.

Data Failure – a failure to achieve the historical research objectives in 8.3.1 through 8.3.2.2 even after reviewing the standard historical sources in 8.3.4.1 through 8.3.4.8 that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.
See 8.3.2.3 of this practice.

Data gap – a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to interview the key site manager, regulatory officials, etc.)
See 12.7 of this practice.

Demolition debris – concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to property.

Drum – a container (typically, but not necessarily, holding 55 gal (208 L) of liquid) that may be used to store hazardous substance or petroleum products.

Drywells – underground areas where soil has been removed and replaced with pea gravel, coarse sand, or large rocks. Dry wells are used for drainage, to control storm runoff, for the collection of spilled liquids (intentional and non-intentional) and wastewater disposal (often illegal).

Dwelling-structure or portion thereof used for residential habitation.

Engineering controls – physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or ground water on the property.

Environmental lien – a charge, security, or encumbrance upon title to a *property* to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of *hazardous substances* or *petroleum products* upon a *property*, including (but not limited to) liens imposed pursuant to CERCLA 42 USC§ §9607(1) & 9607 (r) and similar state or local laws.

ERNS list – USEPA's emergency response notification system list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. Notification requirements for such releases or spills are codified in 40 CFR Parts 302 and 355.

Federal Registration (FR) - publication of the United State government published daily (except for federal holidays and weekends) containing all proposed and final regulations and some other activities of the federal government. When regulations become final, they are included in the Code of Federal Regulations (CFR), as well as published in the Federal Register.

Fill dirt - dirt, soil, sand, or other earth, that is obtained off-site, which is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real property. It does not include material that is used in limited quantities for normal landscaping activities.

Fire insurance maps – maps produced for private fire insurance map companies that indicate uses of properties at specified dates and that encompass the property. These maps are often available at local libraries, historical societies, private resellers, or from the map companies who produces them.

Good faith – the absence of any intention to seek an unfair advantage or to defraud another party; an honest and sincere intention to fulfill one's obligations in the conduct or transaction concerned.

Hazardous substance – a substance defined as a hazardous substance pursuant to CERCLA 42 USC§ 9601(14), as interpreted by USEPA regulations and the courts: "(A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, (42 USC § 6921) (but not including any waste the regulation of which under RCRA (42 USC §§ 6901 *et seq.*) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 USC § 7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of USEPA) has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas)."

Hazardous waste – any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of RCRA, as amended, (42 USC § 6921) (but not including any waste the regulation of which under RCRA (42 USC §§ 6901-6992k.) has been suspended by Act of Congress). RCRA is sometimes also identified as the Solid Waste Disposal Act. RCRA defines a hazardous waste, in 42 USC § 6903, as: "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may- (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed."

IC/EC registries – database of institutional controls or engineering controls that may be maintained by a federal, state or local environmental agency for purposes of tracking sites that may contain residual contamination and AULs. The names for these may vary from program and state to state, and include terms such as Declaration of Environmental Use Restriction database (Arizona), list of "deed restrictions" (California), environmental real covenants list (Colorado), Brownfields site list (Indiana, Missouri, Pennsylvania).

Institutional controls – a legal or administrative restriction (for example, "deed restrictions", restrictive covenants, easements or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances in the soil or ground water on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.

Interviews – those portions of this practice that are contained in Section 5.0 thereof and address questions to be asked of past and present owners, operators, and occupants of the property and question to be asked of local government officials.

Landfill – a place, location, tract of land, area, or premises used for disposal of solid waste as defined by state solid waste regulations. The term is synonymous with the term *solid waste disposal site* and is also known as a garbage dump, trash dump, or similar term.

Local government agencies – those agencies of municipal or county government having jurisdiction over the property. Municipal and county government agencies include but are not limited to cities, parishes, townships and similar entities.

Local street directories – directories published by private (or sometimes government) sources that show ownership, occupancy, and/or use of sites by reference to street addresses. Often local street directories are available at libraries, or historical societies, and/or local municipal offices.
See 8.3.4.6 of this practice.

LUST sites – state lists of leaking underground storage tank sites. RCRA gives USEPA and states, under cooperative agreements with USEPA, authority to clean up release from UST systems or require owner and operators to do so. (42 U.S.C. §6991b).

Major occupants – those tenants, subtenants, or other persons or entities each of which uses at least 40% of the Subject Property.

Material safety data sheet (MSDS) – written or printed material concerning a hazardous substance which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200.

National Contingency Plan (NCP) – the National Oil and Hazardous Substance Pollution Contingency Plan, found at 40 CFR Part 300 that is the USEPA's blueprint on how hazardous substances are to be cleaned up pursuant to CERCLA.

Occupants – those tenants, subtenants, or other persons or entities using the Subject Property or a portion of the Subject Property.

Owner – generally the fee owner of record of the *property.*

Petroleum exclusion – the exclusion from CERCLA liability provided in 42 USC § 9601(14), as interpreted by the courts and USEPA: "The term (hazardous substance) does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas)."

Petroleum products – those substances included within the meaning of the *petroleum exclusion* to CERCLA, 42 USC § 9601(14), as interpreted by the courts and USEPA, that is: petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under Subparagraphs (A) through (F) of 42 USC § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to *Standard Definitions of Petroleum Statistics*.

Pits, ponds, or lagoons – man-made or natural depressions in a ground surface that are likely to hold liquids or sludge containing *hazardous substances* or *petroleum products*. The likelihood of such liquids or sludge being present is determined by evidence of factors associated with the pit, pond, or lagoon, including, but not limited to, discolored water, distressed vegetation, or the presence of an obvious wastewater discharge.

Property – the real property that is the subject of the *environmental site assessment* described in this practice. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

RCRA TSD Facilities – those facilities on which treatment, storage, and/or disposal of hazardous wastes take place, as defined and regulated by RCRA.

Solvent - a chemical compound that is capable of dissolving another substance and may itself be a *hazardous substance*, used in a number of manufacturing/industrial processes including but not limited to the manufacture of paints and coatings for industrial and household purposes, equipment clean-up, and surface degreasing in metal fabricating industries.

Sump – a pit, cistern, cesspool, or similar receptacle where liquids drain, collect, or are stored.

TSD facility – treatment, storage, or disposal facility (see RCRA TSD facilities).

Underground storage tanks (UST) – any tank, including underground piping connected to the tank, that is or has been used to contain *hazardous substances* or *petroleum products* and the volume of which is 10% or more beneath the surface of the ground.

Wastewater – water that (1) is or has been used in an industrial or manufacturing process, (2) conveys or has conveyed sewage, or (3) is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. Wastewater does not include water originating on or passing through or adjacent to a site, such as storm water flows, that has not been used in industrial of manufacturing processes, has not been combined with sewage, or is not directly related to manufacturing, processing, or raw materials storage areas at an industrial plant.

14.1 ADDITIONAL DEFINITIONS – SPECIFIC TO ESA

Business environmental risk – a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of *business environmental risk* issues may involve addressing one or more non-scope considerations, some of which are identified in Section 13.

Due diligence – the process of inquiring into the environmental characteristics of a parcel of *commercial real estate* or other conditions, usually in connection with a commercial real estate transaction. The degree and kind of due diligence vary for different properties and differing purposes.

Environmental compliance audit – the investigative process to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations. This term should not be used to describe Practice E 1528 or 1527, although an environmental compliance audit may include an *environmental site assessment* or, if prior audits are available, may be part of an environmental site assessment.

Environmental professional – (1) a person who possesses sufficient specific education, training and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases (see §312.1(c)), on, at, in, or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). (2) Such a person must: (i) hold a current Professional Engineer's or Professional Geologist's license or registration from a state, tribe, or US territory (or the Commonwealth of Puerto Rico) and have the equivalent of three (3) years of fulltime relevant experience; or (ii) be licensed or certified by the federal government, a state, tribe, or US territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries as defined in §312.21 and have the equivalent of three (3) years of full-time relevant experience; or (iii) have a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the

equivalent of five (5) years of full-time relevant experience; or (iv) have the equivalent of ten (10) years of full-time relevant experience. The person may be an independent contractor or an employee of the *user*.

Environmental site assessment (ESA) – the process by which a person or entity seeks to determine if a particular parcel of real *property* (including improvements) is subject to *recognized environmental conditions*. At the option of the user, an environmental site assessment may include more inquiry than that which constitutes *all appropriate inquiry* or, if the user is not concerned about qualifying for the LLPs, less inquiry than that constituting *all appropriate inquiry.* An environmental site assessment is different from an *environmental compliance audit.*

Historical recognized environmental condition – environmental condition which in the past would have been considered a *recognized environmental condition*, but which may or may not be considered a *recognized environmental condition* currently. The final decision rests with the *environmental professional* and will be influenced by the current impact of the *historical recognized environmental condition* on the property. If a past release of any hazardous substances or petroleum products has occurred in connection with the property and has been remediated, with such remediation accepted by the responsible regulatory agency (for example, as evidenced by the issuance of a no further action letter or equivalent), this condition shall be considered an *historical recognized environmental condition* and included in the findings section of the Phase I *Environmental Site Assessment* report. The *environmental professional* shall provide an opinion of the current impact on the property of this *historical recognized environmental condition* in the opinion section of the report. If this *historical recognized environmental condition* is determined to be a *recognized environmental condition* at the time the Phase I *Environmental Site Assessment* is conducted, the condition shall be identified as such and listed in the conclusions section of the report.

Innocent landowner defense – (42 USC § 9601(35) and § 9607(b) (3)). A person may qualify as one of three types of innocent landowners: (i) a person who :did not know and had no reason to know" that contamination existed on the property at the time the purchaser acquired the property; (ii) a government entity which acquired the property by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; and (iii) a person who :acquired the facility by inheritance or bequest." To qualify for the first type of innocent landowner LLP, such person must have made all appropriate inquiry on or before the date of purchase. Furthermore, the all appropriate inquiry must not have resulted in knowledge of the contamination. If it does, then such person did "know" or "had reason to know" of contamination and would not be eligible for the innocent landowner defense. See ASTM E1527-05 Appendix X1.

Key site manager – the person identified by the *owner* or *operator* of a *property* as having good knowledge of the uses and physical characteristics of the property.

Landowner Liability Protections (LLPs) – landowner liability protections under CERCLA; these protections include the bona fide prospective purchaser liability protection, contiguous property owner liability protection, and innocent landowner defense from CERCLA liability, See 42 USC § §9601(35)(A), 9601(40), 9607(b), 9607(q), 9607 (r).

Material threat – a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the *environmental professional*, is threatening and might result in impact to public health of the environment. An example might include an aboveground storage tank that contains a hazardous substance and which shows evidence of damage. The damage would represent a material threat if it is deemed serious enough that it may cause or contribute to tank integrity failure with a release of contents to the environment.

Obvious – that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while visually or physically observing the *property*.

Other historical sources – any source or sources other than those designated in 7.3.4.1 through 7.3.4.8 that are credible to a reasonable person and that identify past uses of the property. The term includes, but is not limited to: miscellaneous maps, newspaper archives, internet sites, community organizations, local libraries, historical societies, current owners or occupants of neighboring properties, and records in the files and/or personal knowledge of the *property owner* and/or *occupants*. See ASTM E1527-05 Sections 3.2.58 and 8.3.4.8.

Practically reviewable – information that is *practically reviewable* means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the *property* without the need for extraordinary analysis or irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the *property* or a geographic area in which the *property* is located are not generally *practically reviewable*. Most databases of public records are *practically reviewable* if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally practically reviewable. Listings in publicly available records which do not have adequate address information to be located geographically are not generally considered practically reviewable. For large databases with numerous facility records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not *practically reviewable* unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be *practically reviewable*. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the *property*, it is not *practically reviewable.*

Publicly available – information that is publicly available means that the source of the information allows access to the information by anyone upon request.

Reasonably ascertainable – for purposes of both Practice E 1527 and 1528, information that is *(1) publicly available*, (2) obtainable from its source within reasonable time and cost constraints, and *(3) practically reviewable*.

Recognized environmental conditions – the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not *recognized environmental conditions*.

User – the party seeking to use Practices E 1527 or E 1528 to complete an *environmental site assessment* of the *property*. A user may include, without limitation, a potential purchaser of *property*, a potential tenant of property, an *owner* of *property,* a lender, or a property manager.

Visually and/or physically observed – during a *site visit* pursuant to this practice, this term generally means observations made by vision while walking through a *property* and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term "walking through" is not meant to imply that disabled persons who cannot physically walk may not conduct a *site visit*; they may do so by the means at their disposal for moving through the *property* and the structures located in it.

14.2 ACRONYMS

AULs – Activity and Use Limitations
CERCLA-Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended, 42 USC § 9601 *et seq.*)
CERCLIS-Comprehensive Environmental Response, Compensation and Liability Information System (maintained by USEPA)
CFR-Code of Federal Regulations
CORRACTS-Facilities subject to Corrective Action under RCRA
ECs – Engineering Controls
USEPA-United States Environmental Protection Agency
EPCRA-Emergency Planning and Community Right to Know Act ((also known as SARA Title III), 42 USC § 11001 *et seq.*)
ERNS-Emergency Response Notification System
ESA-Environmental Site Assessment (different than an *environmental audit*; see 3.3.13)
FOIA-U.S. Freedom of Information Act (5 USC 552 *et seq.*)
FR-Federal Register
ICs – Institutional Controls
LLPs – Landowner Liability Protections under the Brownfields Amendments
LUST-Leaking Underground Storage Tank
MSDS-Material Safety Data Sheet
NCP-National Contingency Plan
NFRAP-Former CERCLIS sites where no further remedial action is planned under CERCLA
NPDES-National Pollutant Discharge Elimination System
NPL-National Priorities List
PCBs-Polychlorinated Biphenyls
PRP-Potentially Responsible Party (pursuant to CERCLA 42 USC § 9607(a))
RCRA-Resource Conservation and Recovery Act (as amended, 42 USC § 6901 *et seq.*)
SARA-Superfund Amendments and Reauthorization Act of 1986 (amendment to CERCLA)

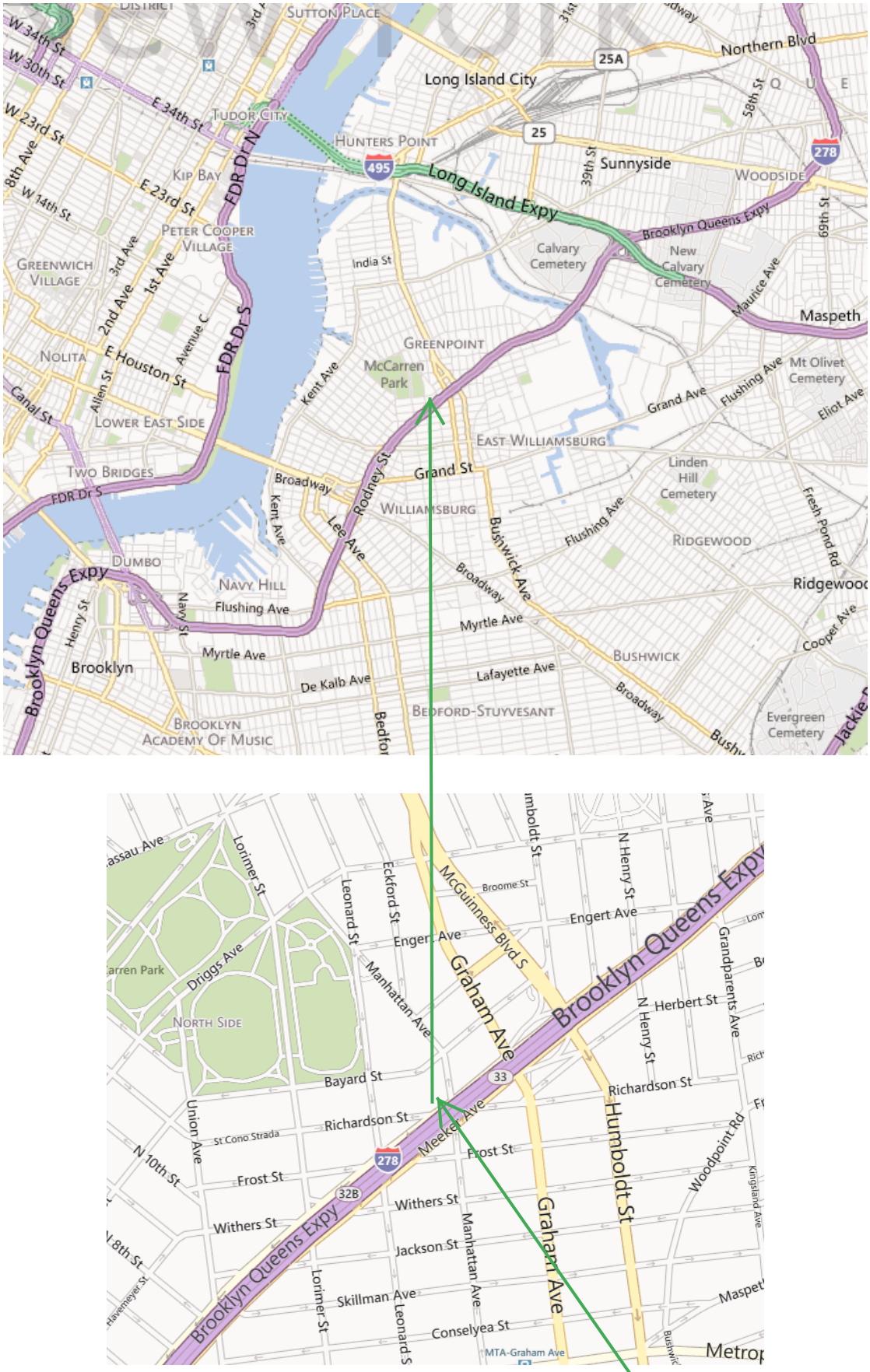


Figure 1.0 Site Location
415 Manhattan Avenue
Brooklyn, New York

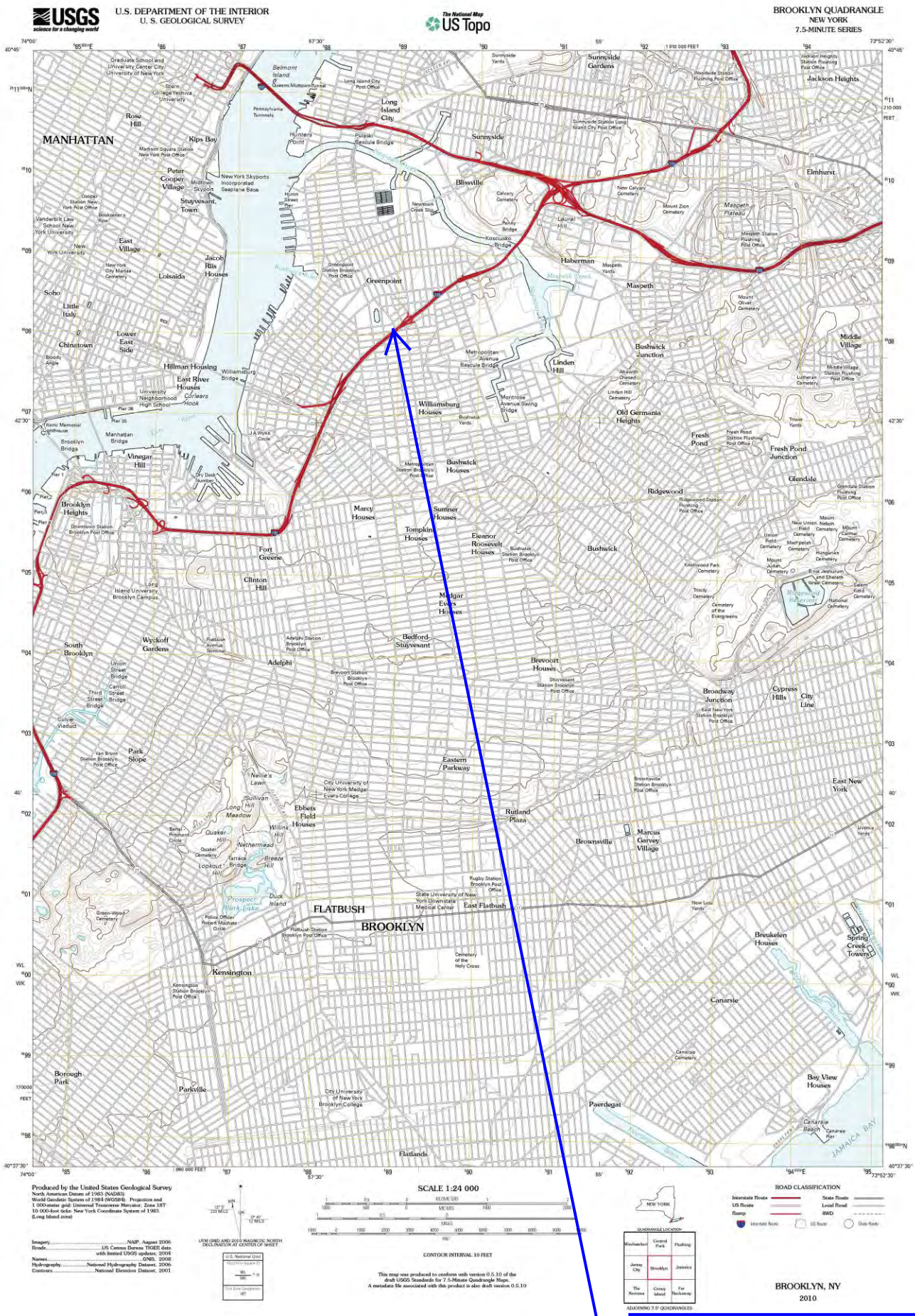


Figure 2.0 Current Topographic Map
415 Manhattan Avenue
Brooklyn, New York

Figure 3.0 Historical Topographic Map--1967
415 Manhattan Avenue
Brooklyn, New York

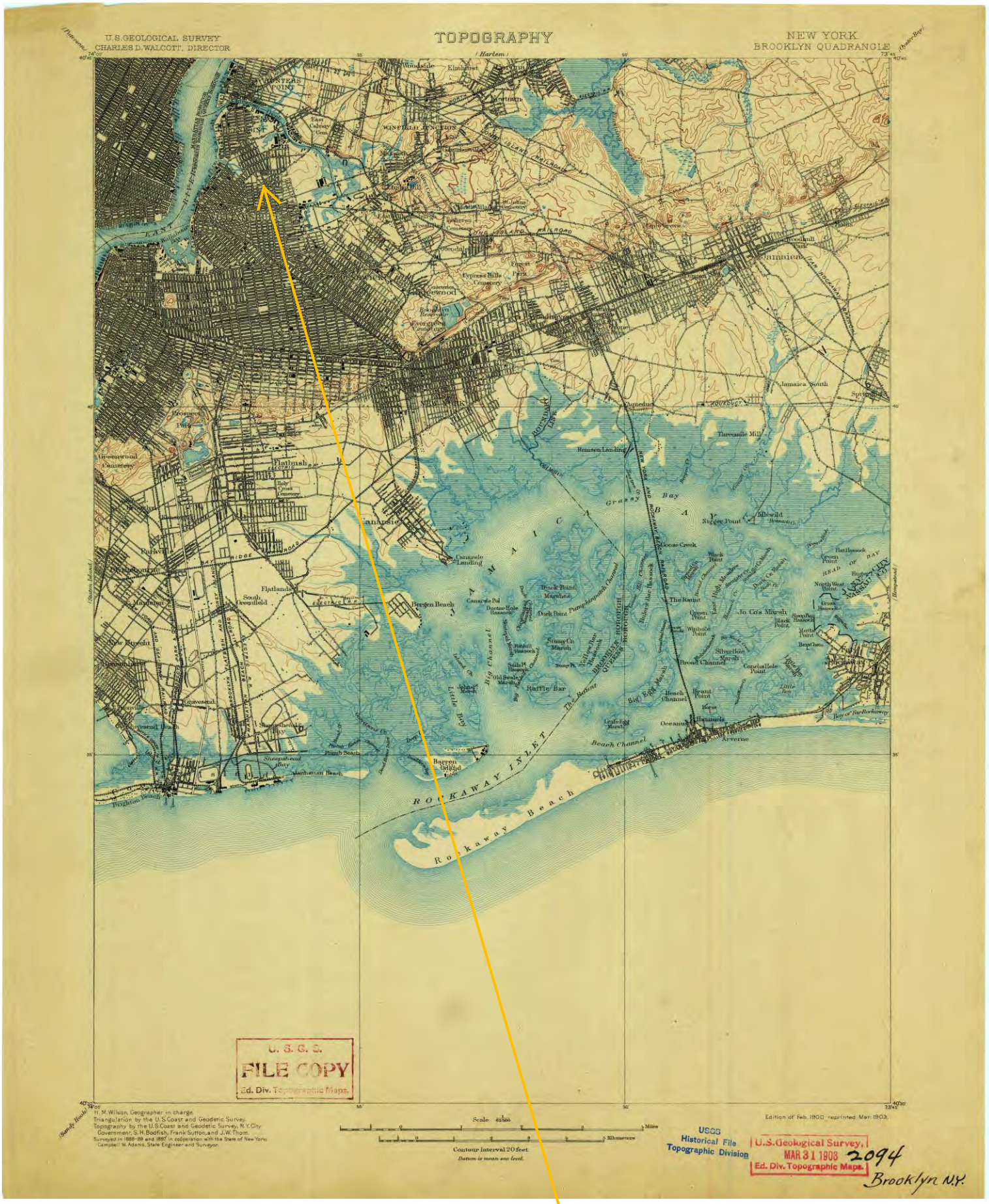
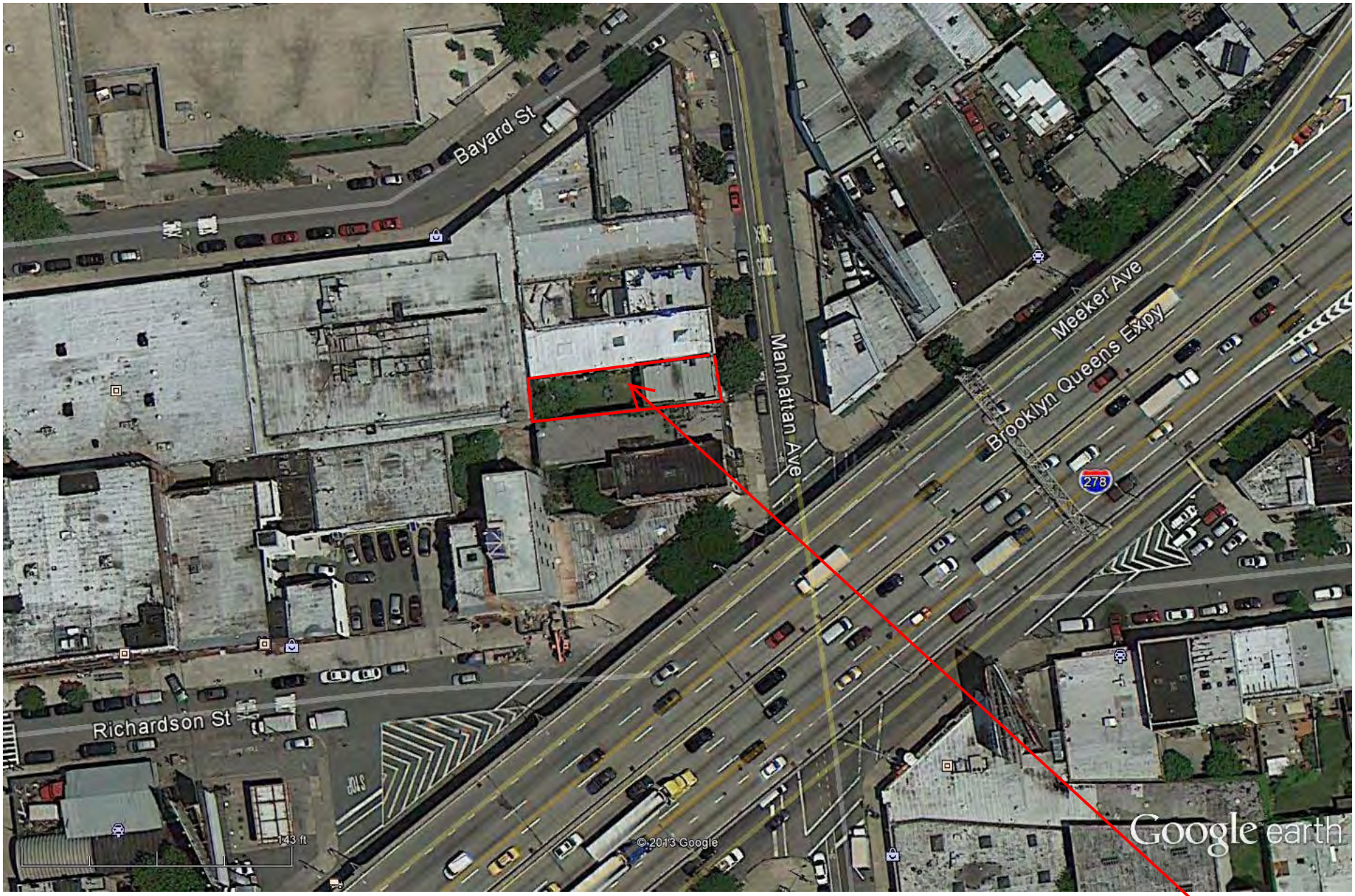


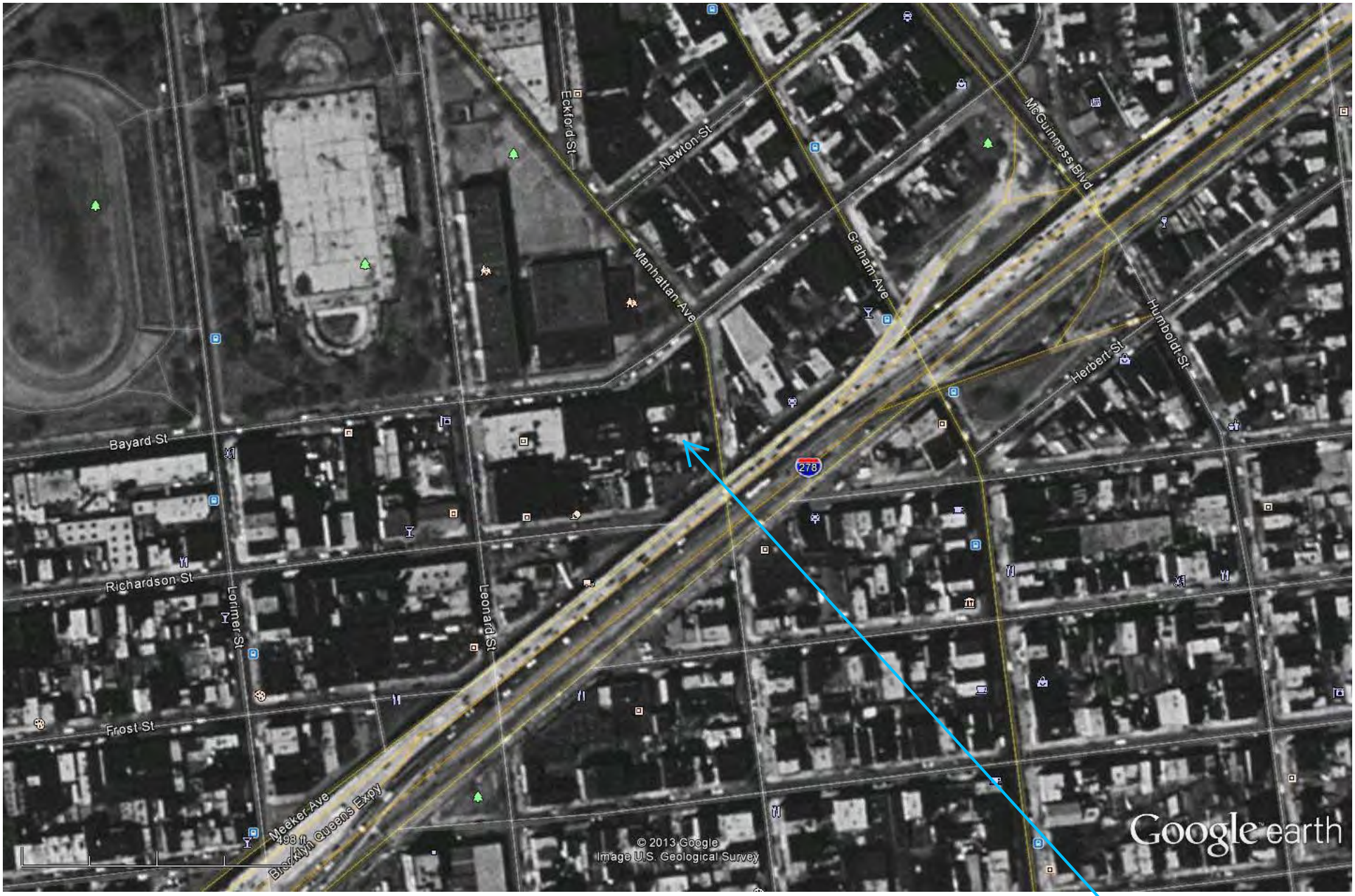
Figure 4.0 Historical Topographic Map--1900
415 Manhattan Avenue
Brooklyn, New York



feet 400

meters 100

Figure 5.0 Aerial Photograph
415 Manhattan Avenue
Brooklyn, New York



feet 1000

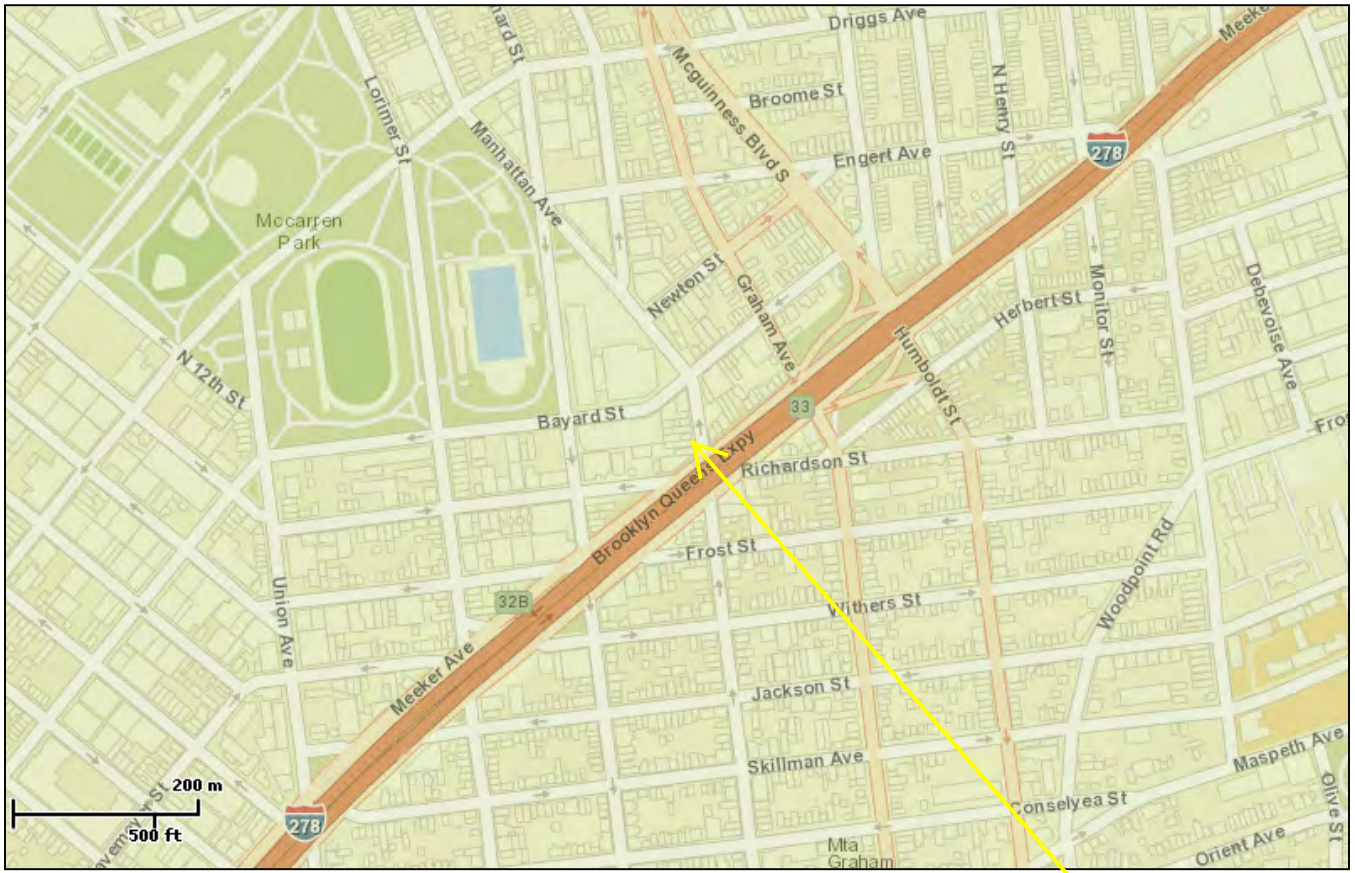
meters 400

Figure 6.0 Historical Aerial Photograph--1994
415 Manhattan Avenue
Brooklyn, New York

U.S. Fish and Wildlife Service

National Wetlands Inventory

Feb 28, 2013



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Status

- Digital
- Scan
- Non-Digital
- No Data

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Figure 7.0 Wetlands Map

415 Manhattan Avenue
Brooklyn, New York

Figure 8.0, Tribal Lands Map
Federal and State Recognized Indian Nation Lands, New York State

APPENDIX A

Site Photographs

Photo 1, View of the east side of the subject property

Photo 2, View of the west side of the subject property

Photo 3, View of the surrounding properties to the north

Photo 4, View of the surrounding properties to the east

Photo 5, View of the surrounding properties to the south

Photo 6, View of the surrounding properties to the west

Photo 7, View of the natural gas meters

Photo 8, View of gas-fired boilers

Photo 9, View of the hot water heaters

Photo 10, View of the electric meters

Photo 11, View of the basement space being renovated

Photo 12, Additional view of main floor renovations

Photo 13, View of the backyard

APPENDIX B

Regulatory Agency Records

NYCDEP FOIL Request & Response

NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Application for Records, Article 6 – New York State Public Officers Law, Freedom of Information Law

Complete Part I of this form. Please refer to instruction sheet for assistance in completing this form. If responsive records are located, you will be notified and informed of the required payment. Advance payment is required in check or money order payable to the City of New York before documents will be released. Either send the completed application to the Records Access Officer at NYC DEP, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373, or fax to (718) 595-6543. **DO NOT FAX AND MAIL.**

PART I. APPLICATION – Check type of record(s) requested:

- ☐ Bid/ Procurement (ACCO)
- ☐ Asbestos (BEC)
- ☒ Hazardous materials emergency response (BEC)
- ☐ Right To Know (BEC)
- ☒ Air permits/complaints/ inspections (BEC)
- ☐ Noise complaints/ inspections (BEC)
- ☒ Environmental Review/SEQRA (BEPA)
- ☒ Industrial Pretreatment/ sewer discharge violations (BWT)
- ☐ Water main/line repair/construction (BWSO)
- ☒ Sewer main/line repair/construction (BWSO)
- ☒ Water Quality (BWS/WQ)
- ☐ Watershed/ reservoir operations (BWS)
- ☒ Watershed area incident reports (DEP PD)
- ☐ Water bill accounts/ metering (BCS)
- ☐ Personnel records (HRM)
- ☐ Wastewater Treatment Plant operations (BWT)
- ☒ e designations

I hereby apply to inspect or X receive copies of the following records (use additional sheets as needed and attach):

Inspection records, violations, AST's + UST's Hazardous materials chemical storage permits, oil/pcb's/chemical/hazardous waste spills

Location: 415 manhattan Avenue, Brooklyn New York 11222

Time frame/date of records:

Name: Kristen Molfetta Phone: 631-673-0612 E-Mail: kmolfetta@laurelenv.com

Firm: Laurel Environmental Associates

Address: 53 West Hills Rd. Suite 1 City Huntington Station State NY Zip Code 11746

Signature: Kristen Molfetta Date: 2/26/13

PART II. DISPOSITION OF REQUEST (*TO BE COMPLETED BY THE DEPARTMENT*)

☐ APPROVED ☐ APPROVED IN PART - - To arrange for access to the records, please contact:

(Department Representative) (Bureau) (Phone No.)

Number of Pages: x$.25 per page = Cost:

☐ DENIED ☐ DENIED IN PART - - for reason(s) checked: References are to Sec. 87 of the Public Officers Law.

- ☐ Exempt: State/Fed. Statute (2(a))
- ☐ Invasion of personal privacy (2(b))
- ☐ Competitive position injury (2(d))
- ☐ Exempt: Law Enforcement (2(e))
- ☐ Inter/Intra-agency material (2(g))
- ☐ (Other)

Brief Description of records not subject to disclosure

A denial, in whole or in part, may be appealed within 30 days by writing to the NYCDEP FOIL Appeals Officer, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373

Environmental Protection

Carter H. Strickland, Jr.
Commissioner

John Rousakis
General Counsel
Bureau of Legal Affairs

Records Access Officer

59-17 Junction Boulevard
Flushing, NY 11373
T: (718) 595-3448
F: (718) 595-6543

March 1, 2013

Ms. Kristen Molfetta
Laurel Environmental Associates
53 West Hills Road, Suite 1
Huntington Station, NY 11746

Dear Ms. Molfetta:

Re: 415 Manhattan Avenue, Brooklyn

We hereby acknowledge receipt of your **Freedom of Information Law** request dated February 26, 2013.

Your request is important to us and will be handled as expeditiously as possible. You are advised, however, that because of the large increase in the volume of such requests, your response may be delayed.

Please be advised that the NYC Environmental Protection no longer handles e-designations requests. They are now handled by the Mayor's Office of Environmental Remediation. Listed below for your convenience is the address to submit your FOIL requests.

NYC Mayor's Office of Environmental Remediation
253 Broadway, 14th Floor
New York, New York 10007
212-788-8841

Enclosed with this letter are your original requests.

If you have any questions, please call Brenda Farren, Records Access Officer, at (718) 595-3448. Please refer to the ***FOIL log number(s)*** listed below when calling.

Sincerely,

Brenda Farren

Brenda Farren
FOIL Access Officer

FOIL log #(s) 94283, 94284, 94285, 94286

RECEIVED
3/5/13
laurel

Environmental Protection

Carter H. Strickland, Jr.
Commissioner

Vincent Sapienza
Deputy Commissioner
Bureau of Wastewater Treatment
vsapienza@dep.nyc.gov

96-05 Horace Harding Expressway
Corona, NY 11368
T: (718) 595-4906
F: (718) 595-6950

Date: 3/14/13

Re: Freedom of Information Law Request (FOIL) # 94285

Dear Sir or Madam:

I am writing in response to your FOIL request (see attached). This response specifically addresses only those aspects of your request related to the discharge of wastewater or other materials to a New York City public sewer. As this letter only pertains to records in the custody of the Division of Pollution Control and Monitoring, if your request was also directed to other divisions within the Bureau of Wastewater Treatment or to other bureaus within the Department of Environmental Protection, then you will receive a separate response from those divisions or bureaus.

Concerning your request, the **Division of Pollution Control and Monitoring**:

[ ] cannot identify the requested location because _____.

[X] after search, has not identified any records responsive to your request.

[ ] has identified records responsive to your request. Please telephone me at (718) 595-4756 to arrange for an appointment to review the information.

[ ] other _____

Sincerely,

Vitaly Weiler
FOIL Liaison
Division of Pollution Control and Monitoring

RECEIVED 3/19/13
Laurel

Environmental Protection

Carter H. Strickland Jr.
Commissioner

Angela Licata
Deputy Commissioner
of Sustainability
alicata@dep.nyc.gov

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

Steven A. Camaiore, P. E.
Director
Asbestos Control Program
718-595-4424

59-17 Junction Boulevard
8th Floor
Flushing, NY 11373

March 22nd, 2013

Ms. Kristen Molfetta
Laurel Environmental Associates
53 West Hills Road – Suite #1
Huntington, New York 11746

Dear Ms. Molfetta:

RE: 415 Manhattan Avenue
Phase 1

In response to your Freedom of Information Law request, dated March 1st, 2013. The Asbestos Control Program searched its files and has no records for the above-mentioned premise (s).

If you have any further questions, please do not hesitate to contact me at (718) 595-3677.

Sincerely,

Pauline Lewis for

Josianne Dieudonne

RECEIVED
4/8/13
Laurel

NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Application for Records, Article 6 – New York State Public Officers Law, Freedom of Information Law

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- ☒ Sewer main/line repair/construction (BWSO)
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- ☐ Watershed/ reservoir operations (BWS)
- ☒ Watershed area incident reports (DEP PD)
- ☐ Water bill accounts/ metering (BCS)
- ☐ Personnel records (HRM)
- ☐ Wastewater Treatment Plant operations (BWT)
- ☒ e designations

I hereby apply to · Inspect or X receive copies of the following records (use additional sheets as needed and attach):

Inspection records, violations, AST's + UST's Hazardous materials chemical storage permits, oil/pcb's/chemical/hazardous wastes spills

Location: 415 manhattan Avenue, Brooklyn New York 11222

Time frame/date of records:

Name: Kristen Molfetta Phone: 631-673-0612

Mail: kmolfetta@laureleny.com

Firm: Laurel Environmental Associates

Address: 53 West Hills Rd, Suite 1 City Huntington Station State NY Zip Code 11746

Signature: Kristen Molfetta Date: 2/26/13

PART II. DISPOSITION OF REQUEST (*TO BE COMPLETED BY THE DEPARTMENT*)

☐ APPROVED ☐ APPROVED IN PART - - To arrange for access to the records, please contact:

(Department Representative) (Bureau) (Phone No.)

Number of Pages: x$.25 per page = Cost:

☐ DENIED ☐ DENIED IN PART - - for reason(s) checked: References are to Sec. 87 of the Public Officers Law.

- ☐ Exempt: State/Fed. Statute (2(a))
- ☐ Invasion of personal privacy (2(b))
- ☐ Competitive position injury (2(d))
- ☐ Exempt: Law Enforcement (2(e))
- ☐ Inter/Intra-agency material (2(g))
- ☐ (Other)

Brief Description of records not subject to disclosure

A denial, in whole or in part, may be appealed within 30 days by writing to the NYCDEP FOIL Appeals Officer, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373

LOG# 94285

APPENDIX C

NYC Building Department Records

NYCityMap

Search for a location: *Enter an address, intersection, community district, ZIP code, etc...*

Advanced Search

Searched Locations

415 MANHATTAN AVENUE
BROOKLYN 11222

Hide Additional Information...

- Find Nearest

- Building & Property Information

Borough: Brooklyn **Block:** 2723 **Lot:** 30
Police Precinct: 94
Owner: GUIDICE, TENANTS IN

Address: 415 MANHATTAN AVENUE, BROOKLYN 11222
Lot Area: 2500 sf
Lot Frontage: 25' **Lot Depth:** 100
Year Built: 1920 (estimated)
Number of Buildings: 1
Number of Floors: 2
Gross Floor Area: 1,050 sf (estimated)
Residential Units: 2 **Total # of Units:** 2
Land Use: One and Two Family Buildings
Zoning: M1-2/R6A
Commercial Overlay:
Zoning Map #: 13A
Landmark Building: No
Historic District: No

Dept. of City Planning, PLUTO 12v2 © 2012 and other city agency sources

Links to More Information

Address Translator

Building ECB Violations

- Neighborhood Information

- Elected Official Information

NYC Buildings

NYC .gov always open

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Property Profile Overview

415 MANHATTAN AVENUE **BROOKLYN 11222** **BIN# 3067909**

MANHATTAN AVENUE 415 - 415

Health Area	: 200	**Tax Block**	: 2723
Census Tract	: 499	**Tax Lot**	: 30
Community Board	: 301	**Condo**	: NO
Buildings on Lot	: 1	**Vacant**	: NO

View DCP Addresses... Browse Block

View Zoning Documents View Challenge Results View Certificates of Occupancy

Cross Street(s):	MEEKER AVENUE, BAYARD STREET		
DOB Special Place Name:			
DOB Building Remarks:			
Landmark Status:		**Special Status:**	N/A
Local Law:	NO	**Loft Law:**	NO
SRO Restricted:	NO	**TA Restricted:**	NO
UB Restricted:	NO		
Little 'E' Restricted:	HAZMAT/AIR	**Grandfathered Sign:**	NO
Legal Adult Use:	NO	**City Owned:**	NO
Additional BINs for Building:	NONE		
Additional Designation(s):	GW - GREENPOINT-WILLIAMSBURG ANTI-HARASSMENT		

Special District: MX-8 - MIXED USE-8 (GREENPOINT-WILLIAMSBURG, BK)

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

Department of Finance Building Classification: B9-2 FAMILY DWELLING

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

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

OR Enter Action Type:

OR Select from List: Select...

AND Show Actions

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

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

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Complaints By Address

Click here for information on how to remove a Stop Work Order from your property

Page: 1 of 1

1 Total Complaints **View SWO Complaints** **BIN: 3067909**

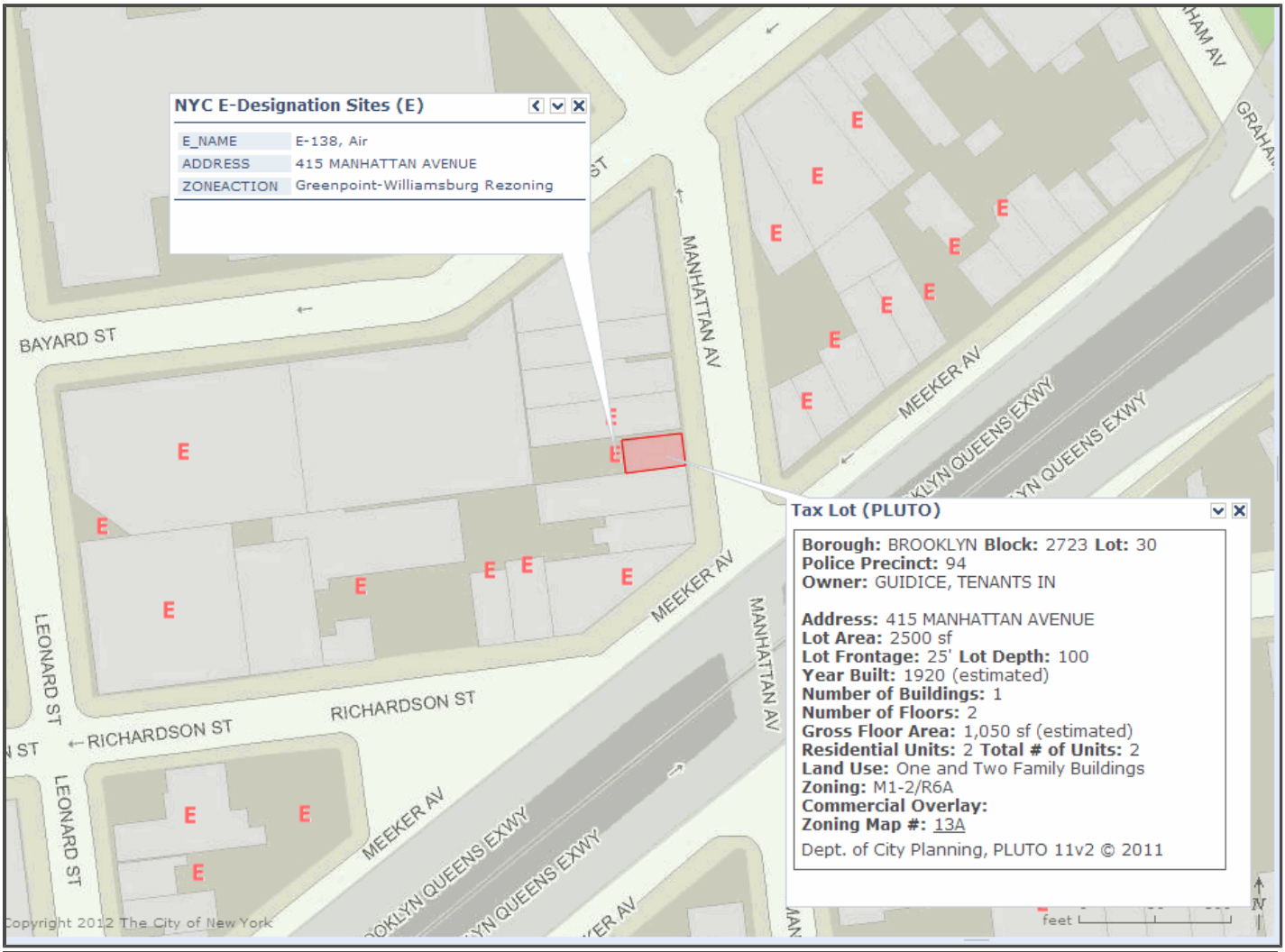
Looking for a list of complaint category codes or disposition codes?
(Adobe Acrobat Reader required)

Complaint Number	Address	Date Entered	Category	Inspection Date	Disposition	Status
3078917	415 MANHATTAN AVENUE	05/11/2000	05	05/17/2000	I2	RES

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

E-designation2

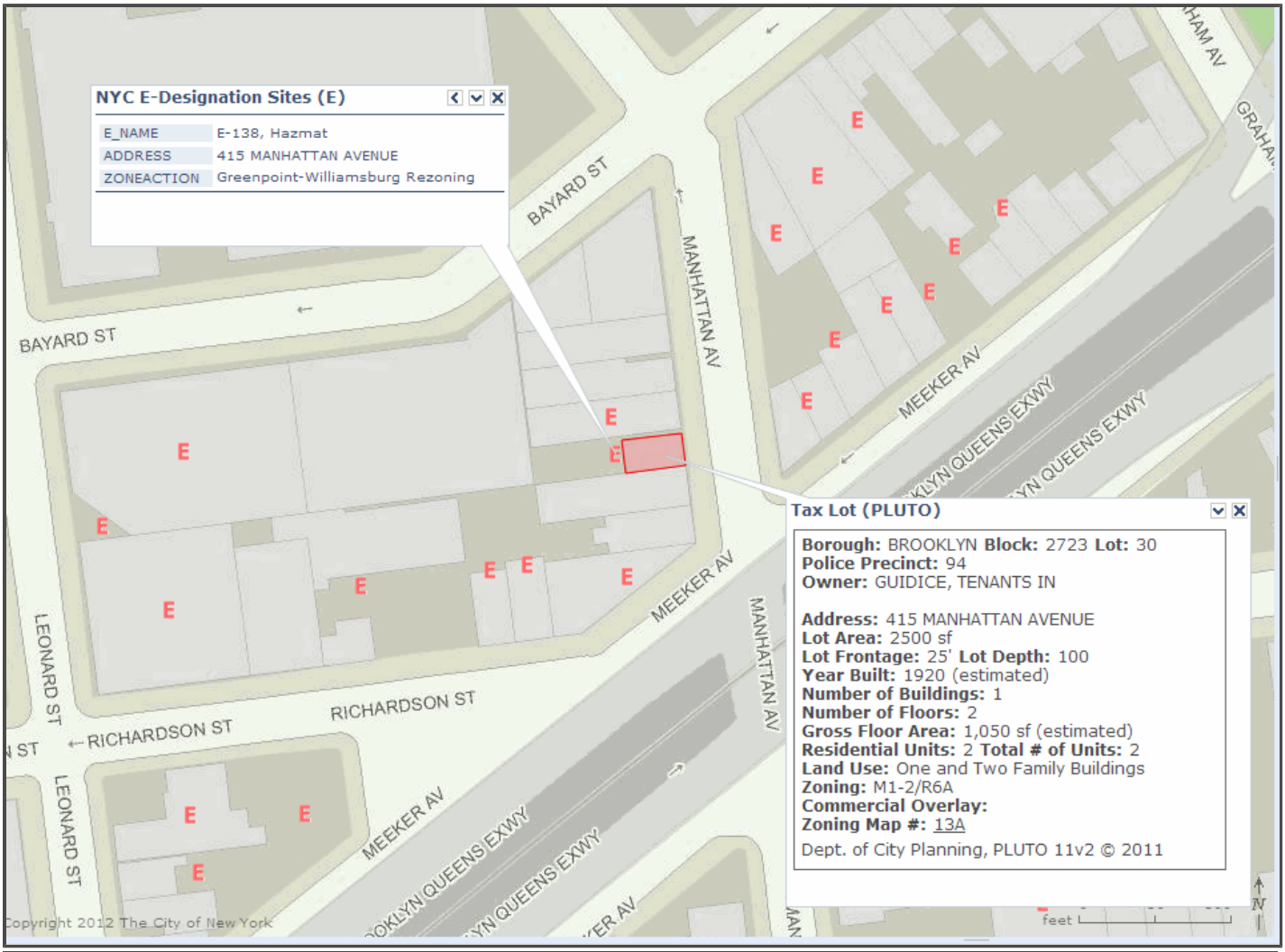
NYCityMap



E NYC E-Designation Sites (E)

415 Manhattan

NYCityMap



E NYC E-Designation Sites (E)

APPENDIX D

Toxics Targeting, Inc. Environmental Report Computerized Report from USEPA, NYSDEC and Local Databases

TOXICS TARGETING

Phase I
Environmental Database Report

415 Manhattan Avenue
Brooklyn, NY 11222

February 27, 2013

Privileged and Confidential.

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Who is Covered

This limited warranty is extended by Toxics Targeting, Inc. only to the original purchaser of the accompanying Environmental Report ("Report"). It may not be assigned to any other person.

What is Warranted

Toxics Targeting, Inc. warrants that it uses reasonable care to accurately transcribe the information contained in this Report from the sources from which it is obtained. This limited warranty is in lieu of all other express warranties which might otherwise arise with respect to the Report. No one is authorized to change or add to this limited warranty.

What We Will Do

If during the warranty period there is shown to be a material error in the transcription of the information contained in this Report from the sources from which it was obtained, Toxics Targeting, Inc. shall refund to the original purchaser the full purchase price paid for the Report. The remedy stated above is the exclusive remedy extended to the Purchaser by Toxics Targeting, Inc. for any failure of the Report to conform with this Warranty, or otherwise for breach of this Warranty or any other warranty, whether expressed or implied.

What We Won't Cover

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PLEASE REFER TO PAGES ONE AND FIVE FOR A DESCRIPTION OF SOME OF THE LIMITATIONS OF THIS ENVIRONMENTAL REPORT.

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- *How to Use Your Report*
- *Toxic Site Databases Analyzed In Your Report*
- *Limitations Of the Information In Your Report*

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- *Map Five:* *Tax Parcel Map*
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- *Unmappable Sites*
- *Hazardous Waste Codes*
- *Information Source Guide*

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Introduction

Toxics Targeting has combined environmental database searches, extensive regulatory analysis and sophisticated mapping techniques to produce your *Environmental Report*. It checks for the presence of 25 categories of government-reported toxic sites and provides detailed, up-to-date information on each identified site. The findings of your report are presented in an easy-to-understand format that:

1. ***Maps*** the approximate locations of selected government-reported toxic sites identified on or near a specified target address.

2. ***Estimates*** the distance and direction between the target address and each identified toxic site.

3. ***Reports*** air and water permit non-compliance and other regulatory violations.

4. ***Profiles*** some aspects of the usage, manufacture, storage, handling, transport or disposal of toxic chemicals at individual sites.

5. ***Summarizes*** some potential health effect information and drinking water standards for selected chemicals reported at individual sites.

The Three Sections Of Your Report

The first section highlights your report's findings by summarizing identified sites according to: **a)** distance intervals, **b)** direction, **c)** proximity to the target address and **d)** individual site categories. In addition, the locations of all identified toxic sites are illustrated on individual maps for each radius search distance used in your report. A close-up map illustrates the locations of all identified toxic sites, at the shortest radius search distance used in your report. Finally, a map of tax parcels and a table of selected information about those parcels are included.

The second section of your report contains *Toxic Site Profiles* that provide detailed information on each identified toxic site. The information in each *Toxic Site Profile* varies according to its source. Some toxic site categories have extensive information and some have limited information. All the information is updated on a regular basis.

The third section of the report contains appendices that identify: **1)** on-site spills reported to the national Emergency Response Notification System (ERNS), **2)** various toxic sites that cannot be mapped due to incomplete or erroneous addresses or other mapping problems, **3)** codes that characterize hazardous wastes reported at various facilities, **4)** methods used to map toxic sites identified in your report and **5)** information sources used in your report.

How to Use Your Report

- Check Table One to see the number of <u>identified sites by distance intervals</u>.

- Check Table Two to see identified sites sorted by <u>direction</u>.

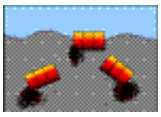
- Check Table Three to see identified sites ranked by <u>proximity to the target address</u>.

- Check Table Four to see identified sites <u>sorted by site categories</u>.

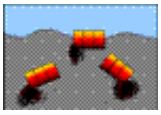
- Use Table Five to get info for the subject parcel and every parcel found on the Tax Parcel Map
- Refer to the various maps to see the locations of identified toxic sites. Refer to the *Toxic Site Profile* and *Appendix* sections for additional information.

Toxic Site Databases Analyzed In Your Report

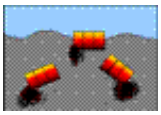
Search Radius

One-Mile 

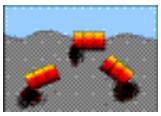
1) ***National Priority List for Federal Superfund Cleanup****:* a listing of sites known to pose environmental or health hazards that are being investigated or cleaned up under the Federal Superfund program.

Half-Mile 

2) ***Delisted National Priority List Sites****:* a listing of NPL sites that have been removed from the National Priority List.

One-Mile 

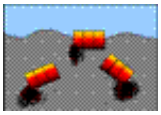
3) ***New York Inactive Hazardous Waste Disposal Site Registry****:* a state listing of sites that can pose environmental or public health hazards requiring investigation or clean up.

One-Mile 

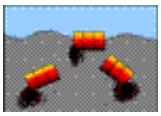
4) ***New York Inactive Hazardous Waste Disposal Site Registry Qualifying****:* a state listing of sites that qualify for possible inclusion to the NYDEC Inactive Haz. Waste Disposal Site Registry.

One-Mile

5) ***RCRA Corrective Action Activity (CORRACTS):*** waste facilities with RCRA corrective action activity reported by the USEPA.

Half-Mile 

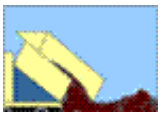
6) ***CERCLIS*** (Comprehensive Environmental Response, Compensation and Liability Information System): a federal listing of Non-NFRAP sites that can pose environmental or public health hazards requiring investigation or clean up.

Half-Mile 

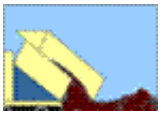
7) ***CERCLIS NFRAP:*** a federal listing of CERCLIS sites that have no further remedial action planned.

Half-Mile

8) ***New York State Brownfield Cleanup Sites****:* a listing of sites that are abandoned, idled or under-used industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Half-Mile 

9) ***New York Solid Waste Facilities Registry****:* active and inactive landfills, incinerators, transfer stations or other solid waste management facilities.

Half-Mile 

10) ***New York City 1934 Solid Waste Sites****:* a listing of solid waste disposal sites operated by New York City municipal authorities circa 1934.

Half-Mile

11) ***New York and Federal Hazardous Waste Treatment, Storage or Disposal Facilities****:* sites reported by the NYS manifest system and the USEPA's Resource Conservation and Recovery Act Information System (RCRIS). Also includes the following database:

- ***RCRA violations:*** waste facilities with violations reported by the USEPA pursuant to the Resource Conservation and Recovery Act.

Half-Mile

12) ***Toxic Spills: active and inactive or closed*** spills reported to state environmental authorities, including *remediated* and *unremediated* leaking underground storage tanks. This database includes the following categories:

- Tank Failures
- Tank Test Failures
- Unknown Spill Cause or Other Spill Causes
- Miscellaneous Spill Causes

Eighth-Mile

13) ***New York State Major Oil Storage Facilities****:* sites with more than a 400,000 gallon capacity for storing petroleum products.

Eighth-Mile

14) ***New York State Petroleum Bulk Storage Facilities****:* sites with more than an 1,100 gallon capacity for storing petroleum products.

Eighth-Mile

15) ***New York City Fire Dept Tank Data****:* tank data from 1997.

Eighth-Mile

16) ***New York and Federal Hazardous Waste Generators and Transporters****:* sites reported by the NYS manifest system and the USEPA's Resource Conservation and Recovery Act Information System (RCRA). Also includes the following database:

- ***RCRA violations:*** waste facilities with violations reported by the USEPA pursuant to the Resource Conservation and Recovery Act.

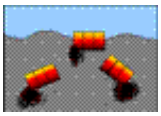
Eighth-Mile

17) ***New York Chemical Bulk Storage Facilities****:* sites storing hazardous substances listed in 6 NYCRR Part 597 in aboveground tanks with capacities of 185 gallons or more and/or underground tanks of any size

Eighth-Mile

18) ***Historic New York City Utility Sites (1890's to 1940's)****:* power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites.

Half-Mile



19) ***New York Hazardous Substance Disposal Site Draft Study****:* a state listing of sites contaminated with toxic substances that can pose environmental or public health hazards. These sites were not eligible for state clean up funding programs.

Eighth-Mile

20) ***Federal Toxic Release Inventory Facilities****:* discharges of selected toxic chemicals to air, land, water or treatment facilities.

Eighth-Mile

21) ***Federal Air Discharges****:* air pollution point sources monitored by U.S. EPA and/or state and local air regulatory agencies.

Eighth-Mile

22) ***Federal Permit Compliance System Toxic Wastewater Discharges:*** permitted toxic wastewater discharges.

Eighth-Mile

23) ***Federal Civil and Administrative Enforcement Docket****:* judiciary cases filed on behalf of the U. S. Environmental Protection Agency by the Department of Justice.

On-site only (250 ft)

24) ***New York City Environmental Quality Review (CEQR) – E Designation Sites****:* parcels assigned a special environmental ("E") designation under the CEQR process. E designation requires specific protocols that must be followed.

Property only

25) ***ERNS: Federal Emergency Response Notification System Spills****:* a listing of federally reported spills.

Limitations Of The Information In Your Report

The information presented in your *Environmental Report* has been obtained from various local, state and federal government agencies. Please be aware that: **1)** additional information on individual sites may be available, **2)** newly discovered sites are continually reported and **3)** all map locations are approximate. As a result, this report is intended to be the FIRST STEP in the process of identifying and evaluating possible environmental threats to specific properties and can only serve as a guide for conducting on-site visits or additional, more detailed toxic hazard research.

Toxics Targeting tries to ensure that the information in your report is presented accurately and with minimal alteration. Systematic changes are made to correct obvious address errors in order to allow sites to be mapped. Any address changes that are made are noted in the map information section at the top of each corresponding *Toxic Site Profile*. Some information that has been withheld by government authorities remains included in Toxic Site Profiles and is identified as archival information. Since the information presented in your report is not edited, please be aware that it can contain reporting errors or typographical mistakes made by the site owners/operators or government agencies that produced the information. Also please be aware of some other limitations of the information in your report:

- The digital map used by *Toxics Targeting* is the same one used by the U. S. Census or local authorities in New York City. While the map is generally accurate, no map is perfect. In addition, *Toxics Targeting's* mapping methods estimate where toxic site addresses are located if the address is not specifically designated. FOR THESE REASONS, ALL MAP LOCATIONS OF ADDRESSES AND REPORTED TOXIC SITES SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE VERIFIED BY ON-SITE VISITS;

- UNDISCOVERED, UNREPORTED OR UNMAPPABLE TOXIC SITES MIGHT NOT BE IDENTIFIED BY THIS REPORT'S CHECK OF 25 TOXIC SITE CATEGORIES. TOXIC SITES REPORTED IN OTHER GOVERNMENT DATABASES MIGHT ALSO EXIST. FOR THESE REASONS, YOUR REPORT MIGHT NOT IDENTIFY ALL THE TOXIC SITES THAT EXIST IN THE AREA IT SEARCHES;

- The appendix of your report contains a listing of sites that could not be mapped due to incomplete or erroneous address information or other mapping problems. This listing includes unmappable toxic sites in the zip codes searched for the report as well as toxic sites without zip codes reported in the same county. IF YOU WOULD LIKE INFORMATION ON ANY OF THE LISTED SITES, PLEASE CONTACT *TOXICS TARGETING AND REFER TO THE SITE ID NUMBER.*

- New York State Department of Environmental Conservation Remediation Site Borders are approximate and may not align with tax parcel boundaries mapped by local authorities or the digital map used by the US Census Bureau. As a result, Remediation Site Borders may overlap parcels that do not involve site remediation activities. Selected parcels also can involve multiple Remediation Site Borders. Refer to individual site profiles for more information. Sites without profiles include potential new sites or sites that have not yet been publicly listed by DEC.

- Some toxic sites identified in your report may be classified as **known hazards**. Most of the toxic sites identified in your report involve **potential hazards** related to the on-site use, manufacture, handling, storage, transport or disposal of toxic chemicals. <u>Some of the toxic sites identified in your report may be the addresses of parties responsible for toxic sites located elsewhere</u>. YOU SHOULD ONLY CONCLUDE THAT TOXIC HAZARDS ACTUALLY EXIST AT A SPECIFIC SITE WHEN GOVERNMENT AUTHORITIES MAKE THAT DETERMINATION OR WHEN THAT CONCLUSION IS FULLY DOCUMENTED BY THE FINDINGS OF AN APPROPRIATE SITE INVESTIGATION UNDERTAKEN BY LICENSED PROFESSIONALS;

- Compass directions and distances are approximate. Compass directions are calculated from the subject property address to the mapped location of each identified toxic site. The compass direction does not necessarily refer to the closest property boundary of an identified toxic site. The compass direction also can vary substantially for toxic sites that are located very close to the subject property address.

- The information presented in your report is a summary of the information that *Toxics Targeting* obtains from government agencies on reported toxic sites. YOU MAY BE ABLE TO OBTAIN ADDITIONAL INFORMATION ABOUT REPORTED SITES WITH THE FREEDOM OF INFORMATION REQUEST FORM LETTERS THAT ARE PROVIDED ON THE INSIDE OF THE BACK COVER.

Section One:

Report Summary

- *Table One:* *Number of Identified Toxic Sites By Distance Interval*
- *Table Two:* *Identified Toxic Sites By Direction*
- *Table Three:* *Identified Toxic Sites By Category*
- *Table Four:* *Identified Toxic Sites By Proximity*
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- *Map Four:* *Eighth-Mile Radius Close up Map*
- *Map Five:* *Tax Parcel Map*
- *Table Five:* *Tax Parcel Map Information Table*

NUMBER OF IDENTIFIED SITES BY DISTANCE INTERVAL

Database Searched	0 − 100 ft	100 ft − 1/8 mi	1/8 mi − 1/4 mi	1/4 mi − 1/2 mi	1/2 mi − 1 mi	Site Category Totals
ASTM−Required 1 Mile Search						
National Priority List (NPL) Sites	0	0	0	0	1	1
NYS Inactive Hazardous Waste Disposal Site Registry	0	1	0	1	12	14
NYS Inactive Haz Waste Disposal Site Registry Qualifying	0	0	0	0	3	3
RCRA Corrective Action (CORRACTS) Sites	0	0	0	0	0	0
ASTM−Required 1/2 Mile Search						
Delisted National Priority List (NPL) Sites	0	0	0	0	Not searched	0
CERCLIS Superfund Non−NFRAP Sites	0	0	0	0	Not searched	0
CERCLIS Superfund NFRAP Sites	0	1	0	0	Not searched	1
Brownfields Sites						
Voluntary Cleanup Program	0	0	0	0	Not searched	0
Environmental Restoration Program	0	0	0	0	Not searched	0
Brownfield Cleanup Program	0	0	0	0	Not searched	0
NYSDEC Solid Waste Facilities / Landfills	0	0	0	0	Not searched	0
RCRA Hazardous Waste Treatment, Storage, Disposal Sites	0	0	0	0	Not searched	0
NYS Toxic Spills						
Active Tank Failures	0	1	0	0	Not searched	1
Active Tank Test Failures	0	0	2	0	Not searched	2
Active Spills − Unknown / Other Causes	0	0	2	8	Not searched	10
Active Spills − Miscellaneous Causes	0	1	0	1(5)	Not searched	2(5)
Closed Tank Failures	0	1	1	4	Not searched	6
Closed Tank Test Failures	0	1	2	11	Not searched	14
Closed Spills − Unknown / Other Causes	0	12	25	104	Not searched	141
Closed Spills − Miscellaneous Causes	0	4	2(18)	8(69)	Not searched	14(87)
ASTM−Required Property & Adjacent Property (1/8 Mile Search)						
NYS Major Oil Storage Facilities	0	0	Not searched	Not searched	Not searched	0
Local & State Petroleum Bulk Storage Sites	0	14	Not searched	Not searched	Not searched	14
RCRA Hazardous Waste Generators & Transporters	0	17	Not searched	Not searched	Not searched	17
NYS Chemical Bulk Storage Sites	0	0	Not searched	Not searched	Not searched	0
Historic Utility Facilities	0	0	Not searched	Not searched	Not searched	0
ASTM−Required On−Site Only Search						
NYC Environmental Quality Review Requirements ("E") Sites*	3	10	Not searched	Not searched	Not searched	13
Emergency Response Notification System (ERNS)	0	Not searched	Not searched	Not searched	Not searched	0
Institutional Controls / Engineering Controls (IC/EC)	See databases for NPL, CERCLIS, Inactive Hazardous Waste Disposal Site Registry and Brownfield Sites.					
ASTM−Required Databases Distance Interval Totals	**3**	**63**	**34(18)**	**137(74)**	**16**	**253(92)**

Numbers in ( ) indicate spills not mapped and profiled in this report, and are listed at the end of the active and closed spills sections. See these lists for a description of the parameters involved with identifying these spills.

* NYC Environmental Quality Review Requirements ("E") Sites were searched at 250 feet.

NOTE: Table continues on next page.

Non−ASTM Databases 1/2 Mile Search						
1934 NYC Municipal Waste Landfills	0	0	0	0	Not searched	0
Hazardous Substance Waste Disposal Sites	0	1	0	0	Not searched	1
Non−ASTM Databases 1/8 Mile Search						
Toxic Release Inventory Sites (TRI)	0	0	Not searched	Not searched	Not searched	0
Permit Compliance System (PCS) Toxic Wastewater Discharges	0	0	Not searched	Not searched	Not searched	0
Air Discharges	0	1	Not searched	Not searched	Not searched	1
Civil & Administrative Enforcement Docket Facilities	0	1	Not searched	Not searched	Not searched	1
Non−ASTM Databases Distance Interval Totals	**0**	**3**	**0**	**0**	**Not Searched**	**3**
Distance Interval Totals	***3***	***66***	***34(18)***	***137(74)***	***16***	***256(92)***

Numbers in ( ) indicate spills not mapped and profiled in this report, and are listed at the end of the active and closed spills sections. See these lists for a description of the parameters involved with identifying these spills.

Identified Toxic Sites by Direction

415 Manhattan Avenue
Brooklyn, NY 11222

* Compass directions can vary substantially for sites located very close to the subject property address.

Sites less than 100 feet from subject property sorted by distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
245		BLOCK: 2723 LOT: 30	0 feet	NYC Env. Qual. Review−"E" Designation
246		BLOCK: 2723 LOT: 29	26 feet to the NW*	NYC Env. Qual. Review−"E" Designation
247		BLOCK: 2723 LOT: 33	87 feet to the S*	NYC Env. Qual. Review−"E" Designation

Sites between 100 ft and 660 ft from the subject property sorted by direction and distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
59	COMMERCIAL PROPERTY	120 NEWTON AVENUE	373 feet to the N	Closed Status Spill (Unk/Other Cause)
66	CHLORINE FACTORY	126 NEWTON ST	474 feet to the N	Closed Status Spill (Unk/Other Cause)
243	ELLI WOODWORKING INDUSTRIES	121−125 NEWTON STREET	595 feet to the N	Air Discharge Site
252		BLOCK: 2724 LOT: 7	180 feet to the NNE*	NYC Env. Qual. Review−"E" Designation
255		BLOCK: 2724 LOT: 10	217 feet to the NNE	NYC Env. Qual. Review−"E" Designation
219	TRICO ELECTRICAL CORP.	495 GRAHAM AVE	517 feet to the NNE	Petroleum Bulk Storage Site
42	UNITED AMBULETTE	495 GRAHAM AVE	523 feet to the NNE	Closed Status Tank Test Failure
250		BLOCK: 2724 LOT: 1	125 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
251		BLOCK: 2724 LOT: 37	152 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
242	CITY BARREL	421 MEEKER STREET	188 feet to the ENE*	Hazardous Substance Waste Disposal Site
230	CITY BARREL & DRUM CO INC	421 MEEKER AVE	190 feet to the ENE*	Hazardous Waste Generator/Transporter
253		BLOCK: 2724 LOT: 34	191 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
2	CITY BARREL CO.	421−429 MEEKER STREET	198 feet to the ENE*	NYSDEC Inactive Haz Waste Disposal Site
20	CITY BARREL	421−429 MEEKER ST	198 feet to the ENE*	CERCLIS Superfund NFRAP Site
256		BLOCK: 2724 LOT: 33	221 feet to the ENE	NYC Env. Qual. Review−"E" Designation
257		BLOCK: 2724 LOT: 31	247 feet to the ENE	NYC Env. Qual. Review−"E" Designation
197	BROOKLYN QUEENS EXPRESS	GRAHAM AVE EAST BOUND DIR	466 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
233	NYSDOT BIN 106560A	I−278 EB OVER GRAHAM AVE	466 feet to the ENE	Hazardous Waste Generator/Transporter
234	NYSDOT BIN 106560B	I−278 WB OVER GRAHAM AVE	466 feet to the ENE	Hazardous Waste Generator/Transporter
56	TRANSMISSION MANHOLE 71303	MEEKER AND RICHARDSON ST	137 feet to the SE*	Closed Status Spill (Unk/Other Cause)
225	CONSOLIDATED EDISON	MEEKER AVE & RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
226	CONSOLIDATED EIDSON	MEEKER & MANHATTAN MH64805	137 feet to the SE*	Hazardous Waste Generator/Transporter
227	CONSOLIDATED EDISON	MEEKER−N−RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
228	CONSOLIDATED EDISON	MEEKER & RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
229	NYSDOT BIN 1065609	I−278 OVER MANHATTAN AVE	137 feet to the SE*	Hazardous Waste Generator/Transporter
63	INTERSECTION FROM MANHOLE 4917	MANHATTAN AVE AND FROST ST	413 feet to the SSE	Closed Status Spill (Unk/Other Cause)

198	GELFAND RES.	398 MANHATTAN AVE	468 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
199	INTERMASTER	387 MANHATTAN AVE	491 feet to the S	Closed Status Spill (Misc. Spill Cause)
217	INTER MASTER CORP	387 MANHATTAN AVE.	494 feet to the S	Petroleum Bulk Storage Site
218	DAMATO SALES & SERVICES	104 FROST ST	497 feet to the S	Petroleum Bulk Storage Site
200	375 MANHATTAN AVENUE	375 MANHATTAN AVENUE	620 feet to the S	Closed Status Spill (Misc. Spill Cause)
248		BLOCK: 2723 LOT: 36	104 feet to the SW*	NYC Env. Qual. Review−"E" Designation
249		BLOCK: 2723 LOT: 37	123 feet to the SW*	NYC Env. Qual. Review−"E" Designation
213	278 FUEL STOP, INC.	392 LEONARD STREET	386 feet to the SW	Petroleum Bulk Storage Site
214	A−I AUTO REPAIRS INC.	392 LEONARD STREET	386 feet to the SW	Petroleum Bulk Storage Site
36	GAS STATION	392 LEONARD STREET	388 feet to the SW	Closed Status Tank Failure
60		392 LEONARD STREET	388 feet to the SW	Closed Status Spill (Unk/Other Cause)
61	CONSTUCTION SITE	392 LEONARD STREET	388 feet to the SW	Closed Status Spill (Unk/Other Cause)
34	FEEDER 61	MEEKER AVE & LEONARD ST	564 feet to the SW	Active Haz Spill (Misc. Spill Cause)
67	MANHOLE 64805	MEECKER AVE A DN FROST ST	564 feet to the SW	Closed Status Spill (Unk/Other Cause)
237	CONSOLIDATED EDISON	MH64805−MEEKER AVE & FROST ST	564 feet to the SW	Hazardous Waste Generator/Transporter
238	CONSOLIDATED EDISON	MEEKER AVE AND FROST ST	564 feet to the SW	Hazardous Waste Generator/Transporter
239	CONSOLIDATED EDISON	MEEKER AVE & FROST ST − MH64805	564 feet to the SW	Hazardous Waste Generator/Transporter
221	MOBILE SYSTEMS UNIT	75 FROST STREET	584 feet to the SW	Petroleum Bulk Storage Site
222	ALL BORO	391 LEONARD STREET	584 feet to the SW	Petroleum Bulk Storage Site
223	FRATELLI RICATTO	391 LEONARD ST	584 feet to the SW	Petroleum Bulk Storage Site
240	NYCDEP	75 FROST ST	592 feet to the SW	Hazardous Waste Generator/Transporter
241	NYCDEP	75 FROST ST	592 feet to the SW	Hazardous Waste Generator/Transporter
211	ISRAEL M DOLGIN ASSOC	101 RICHARDSON STREET	197 feet to the WSW*	Petroleum Bulk Storage Site
254		BLOCK: 2723 LOT: 38	202 feet to the WSW	NYC Env. Qual. Review−"E" Designation
57	SERVICE BOX	87 RICHARDSON ST	313 feet to the WSW	Closed Status Spill (Unk/Other Cause)
58	MANHOLE (UNK #)	87 RICHARDSON ST	313 feet to the WSW	Closed Status Spill (Unk/Other Cause)
212	ISREAL M DOLGIN ASSC	87 RICHARDSON ST	313 feet to the WSW	Petroleum Bulk Storage Site
235	GRAF AIR	407 LEONARD ST	477 feet to the WSW	Hazardous Waste Generator/Transporter
220	FDNY ENGINE 229 / LADDER 146	75 RICHARDSON STREET	548 feet to the WSW	Petroleum Bulk Storage Site
236	NYC FIRE DEPT ENGINE CO 229	75 RICHARDSON ST	551 feet to the WSW	Hazardous Waste Generator/Transporter
21	ENGINE CO. 229 FDNY −DDC	76 RICHARDSON STREET	558 feet to the WSW	Active Tank Failure
62	VS 3971	BAYARD ST/LENARD ST	407 feet to the W	Closed Status Spill (Unk/Other Cause)
232	CONSOLIDATED EDISON	BAYARD ST & LEONARD ST	407 feet to the W	Hazardous Waste Generator/Transporter
64	COMMERCIAL LOT	407 LEONARD STREET/BAYARD	459 feet to the W	Closed Status Spill (Unk/Other Cause)
65	COMMERCIAL LOT	407 LEONARD ST	459 feet to the W	Closed Status Spill (Unk/Other Cause)
216	D L BRENNER & SONS INC	407 LEONARD ST	469 feet to the W	Petroleum Bulk Storage Site
224	CREST BODY EQUIP CRP	72 BAYARD ST	595 feet to the W	Petroleum Bulk Storage Site
231	NYC BOARD OF EDUCATION PS 126 K	424 LEONARD ST	366 feet to the NW	Hazardous Waste Generator/Transporter
215	JUNIOR HIGH SCHOOL 126 − BROOKLYN	424 LEONARD STREET	433 feet to the NW	Petroleum Bulk Storage Site
244	NYC BD OF ED − JUNIOR HIGH SCH	424 LEONARD STREET	368 feet to the NNW	Civil & Admin. Enforcement Docket Site

Sites equal to or greater than 660 ft from subject property sorted by direction and distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category

87	GREEN POINT CAR WASH, INC.	(AKA AUTOCLEAN CARWASH, INC.)	1028 feet to the N	Closed Status Spill (Unk/Other Cause)
97	MANHOLE #TM 633	NEWELL ST & DRIGGS AV	1429 feet to the N	Closed Status Spill (Unk/Other Cause)
116	MCGINNESS AVE BETWEEN	NASSAU AVE DRIBBS AVE	1739 feet to the N	Closed Status Spill (Unk/Other Cause)
121	RESIDENCE	41 NEWELL ST	1788 feet to the N	Closed Status Spill (Unk/Other Cause)
135	44 NEWELL STREET	44 NEWELL STREET	1890 feet to the N	Closed Status Spill (Unk/Other Cause)
173	VAULT TM613	HUMBOLDT ST. AND NASSAU A	2420 feet to the N	Closed Status Spill (Unk/Other Cause)
14	CARBONA PRODUCTS	330 CALYER STREET	4147 feet to the N	NYSDEC Inactive Haz Waste Registry Qual.
131	625 HUMBOLDT STREET	625 HUMBOLDT STREET	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
183	MANHOLE 63577	NASSAU AVE/RUSSELL ST	2517 feet to the NNE	Closed Status Spill (Unk/Other Cause)
184	MANHOLE #64589	RUSSELL & NASSAU ST	2517 feet to the NNE	Closed Status Spill (Unk/Other Cause)
7	FORMER SPIC AND SPAN CLEANERS AND DYERS, INC.	315 KINGSLAND AVENUE	3347 feet to the NNE	NYSDEC Inactive Haz Waste Disposal Site
12	MOBIL OIL BROOKLYN TERMINAL	300 N. HENRY ST.	3966 feet to the NNE	NYSDEC Inactive Haz Waste Disposal Site
81	MANHOLE 55946B	HUMBOLT ST MCGUINESS ST	883 feet to the NE	Closed Status Spill (Unk/Other Cause)
24	SUNOCO SERVICE STATION	550 HUMBOLDT ST	988 feet to the NE	Active Haz Spill (Unknown/Other Cause)
22	MOBIL S/S #17−FX9	550 HUMBOLDT STREET	996 feet to the NE	Active Tank Test Failure
83	FORMER GAS	550 HUMBOLT ST	996 feet to the NE	Closed Status Spill (Unk/Other Cause)
84	MONITORING WELL	550 HUMBOLDT STREET	996 feet to the NE	Closed Status Spill (Unk/Other Cause)
148	NYS DOT − BQE	KINGSLAND & MEEKER AVES	2022 feet to the NE	Closed Status Spill (Unk/Other Cause)
150	MONITOR ST & DRIGGS AVE	MONITOR ST & DRIGGS AVE	2062 feet to the NE	Closed Status Spill (Unk/Other Cause)
176	SERVICE BOX 12690	206 KINGSLAND AVE	2448 feet to the NE	Closed Status Spill (Unk/Other Cause)
78	BRONX QUEENS EXPRESSWAY	EXIT 33 MCGUINNESS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
79	BROOKLYN/QUEENS EXPWY	AND MCGINNIS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
80	IN ROADWAY	BROOKLYN QUEENS EXPRESSWAY @ MCGUINNESS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
201	MCGUINESS BLVD & BQE	MCGUINESS BLVD & BQE	872 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
202	43 HERBERT STREET,BKLYN/R	43 HERBERT ST	970 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
114	SERVICE BOX #12699	107 KINGSLAND AVE	1730 feet to the ENE	Closed Status Spill (Unk/Other Cause)
205	TM 640	HERBERT ST & KINGSLAND AVE	1822 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
133	104 KINGSLAND AVE/BKLYN	104 KINGSLAND AVENUE	1875 feet to the ENE	Closed Status Spill (Unk/Other Cause)
139	DOUBLE GREEN	122 KINGSLAND AVENUE	1932 feet to the ENE	Closed Status Spill (Unk/Other Cause)
143	18 DIVISION PL/BKLYN	18 DIVISION PLACE	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
144	GOODMAN BROT STEEL DRUMS	18 DIVISION ST	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
145	GOODMAN BROT STEEL DRUMS	18 DIVISION PL	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
156	SERVICE VS5743	BEADEL ST/DEBEVOISE ST	2107 feet to the ENE	Closed Status Spill (Unk/Other Cause)
208	NATIONAL DRUM	35 BEADEL STREET	2302 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
50	BUSINESS	32 BEADEL STREET	2316 feet to the ENE	Closed Status Tank Test Failure
174	CON EDISON MANHOLE 12371	53 DIVISON PLACE	2435 feet to the ENE	Closed Status Spill (Unk/Other Cause)
209		505 MORGAN AVE	2497 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
188	MANHOLE #56358	DIVISION PL/MORGAN AVE	2570 feet to the ENE	Closed Status Spill (Unk/Other Cause)
189	MH #16092	MORGAN AVE & DIVISION PL	2570 feet to the ENE	Closed Status Spill (Unk/Other Cause)
191	535 MORGAN AVE	535 MORGAN AVE	2573 feet to the ENE	Closed Status Spill (Unk/Other Cause)
196	S & S PRINTING	488 MORGAN AVE	2639 feet to the ENE	Closed Status Spill (Unk/Other Cause)
210		ANTHONY ST/MORGAN AVE	2639 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
6	ACME STEEL/METAL WORKS	95 LOMBARDY STREET	3157 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
9	ACME STEEL/BRASS FOUNDRY	72 ANTHONY STREET	3641 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
17	K − GREENPOINT MGP − ENERGY CENTER	287 MASPETH AVENUE	4763 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
74	PRIVATE DWELLING	184 RICHARDSON STREET	861 feet to the E	Closed Status Spill (Unk/Other Cause)
75	SUMNER RESIDENCE	184 RICHARDSON ST	861 feet to the E	Closed Status Spill (Unk/Other Cause)
113	MANUFACTURING FACILITY	78 KINGSLAND AVE	1724 feet to the E	Closed Status Spill (Unk/Other Cause)
128	VS 5950	E SIDE KINGSLAND AVE/NEAR FROST ST	1838 feet to the E	Closed Status Spill (Unk/Other Cause)

129	VS5950 − VAULT	KINGSLAND AV/FROST ST	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
130	KINGSLAND & FROST AVENUE −MTBE	KINGSLAND AVENUE	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
51	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
52	COOPER PARK HOUSING −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
53	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
54	COOPER PARK	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
175	ONE QT OIL FOUND IN MANHOLE #2694	DEBEVOISE & JACKSON STREETS	2439 feet to the E	Closed Status Spill (Unk/Other Cause)
5	FORMER KLINK COSMO CLEANERS	364 RICHARDSON STREET	2857 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
11	K − EQUITY WORKS	MASPETH AND VANDERVORT AVES.	3888 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
18	B.C.F. OIL REFINING, INC.	360−362 MASPETH AVENUE, SOUTHSIDE	4895 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
27	MOBIL	51 KINGSLAND AVE	1825 feet to the ESE	Active Haz Spill (Unknown/Other Cause)
127	51 KINGLAND AVENUE	51 KINKGLAND AVE	1825 feet to the ESE	Closed Status Spill (Unk/Other Cause)
136	APARTMENT BLDG	243 JACKSON STREET	1901 feet to the ESE	Closed Status Spill (Unk/Other Cause)
39	RESIDENCE	243 JACKSON STREET	1927 feet to the ESE	Closed Status Tank Failure
142	SANITATION COMPANY	244 SKILLMAN AVE	1986 feet to the ESE	Closed Status Spill (Unk/Other Cause)
147	CON ED VAULT #4233	JACKSON/KINGSLEY	2021 feet to the ESE	Closed Status Spill (Unk/Other Cause)
1	NEWTOWN CREEK	SOUTH END OF IVY HILL ROAD	4730 feet to the ESE	National Priority List(NPL) Site
16	NEWTOWN CREEK	NEWTOWN CREEK (BETWEEN BROOKLYN AND QUEENS)	4730 feet to the ESE	NYSDEC Inactive Haz Waste Disposal Site
69	PAINT FACTORY	415 GRAHAM AVE	770 feet to the SE	Closed Status Spill (Unk/Other Cause)
120	387 HUMBOLDT ST/BKLYN	387 HUMBOLDT STREET	1785 feet to the SE	Closed Status Spill (Unk/Other Cause)
30	WOLF PETROLEUM CORP	2 BUSHWICK AVENUE	2099 feet to the SE	Active Haz Spill (Unknown/Other Cause)
48	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE	Closed Status Tank Test Failure
154	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE	Closed Status Spill (Unk/Other Cause)
33	HESS−MERIT STATION 32522	810 METROPOLITAN AVENUE	2241 feet to the SE	Active Haz Spill (Unknown/Other Cause)
49	810 METROPOLITAN AVE	810 METROPOLITAN AVENUE	2241 feet to the SE	Closed Status Tank Test Failure
207	810 METROPOLITAN AV/MERIT	810 METROPOLITAN AVENUE	2241 feet to the SE	Closed Status Spill (Misc. Spill Cause)
192	RESIDENCE	50 BUSHWICK AVE	2598 feet to the SE	Closed Status Spill (Unk/Other Cause)
19	K − SCHOLES ST. STATION	SCHOLES ST 7 BOGART STS, MESSEROLE & MORGAN AVE	5007 feet to the SE	NYSDEC Inactive Haz Waste Disposal Site
76	OLD PAINT FACTORY	133 JACKSON AVE	870 feet to the SSE	Closed Status Spill (Unk/Other Cause)
77	CONSTRUCTION SITE	133 JACKSON AVE	870 feet to the SSE	Closed Status Spill (Unk/Other Cause)
86	EXCAVATION	140 JACKSON STREET	1025 feet to the SSE	Closed Status Spill (Unk/Other Cause)
90	RESIDENCE	381 GRAHAM AVE APT 2	1190 feet to the SSE	Closed Status Spill (Unk/Other Cause)
103	SCHOOL	320 MANHATTAN AVE.	1570 feet to the SSE	Closed Status Spill (Unk/Other Cause)
88	CONSTRUCTION SITE	351 MANHATTAN AVE	1041 feet to the S	Closed Status Spill (Unk/Other Cause)
98	CORNOR OF CONSELYEA	MANHATTEN AVE	1450 feet to the S	Closed Status Spill (Unk/Other Cause)
100	GAS STATION	116 CONSELYEA STREET	1506 feet to the S	Closed Status Spill (Unk/Other Cause)
204	APARTMENT BLDG	677 METROPOLITAN AV	1609 feet to the S	Closed Status Spill (Misc. Spill Cause)
117	APPEARS THAT 20 GAL COOKING OIL	LEONARD ST & METROPOLITAN AVE	1747 feet to the S	Closed Status Spill (Unk/Other Cause)
165	MH 225	AINSLIE ST/LEONARD ST	2269 feet to the S	Closed Status Spill (Unk/Other Cause)
167	IFO HOUSE	143 AINSLIE ST	2293 feet to the S	Closed Status Spill (Unk/Other Cause)
182	MANHATTAN AVE & POWERS ST	MANHATTAN AVE / POWERS ST	2496 feet to the S	Closed Status Spill (Unk/Other Cause)
71		354 LEONARD ST	852 feet to the SSW	Closed Status Spill (Unk/Other Cause)
72		354 LEONARD ST	852 feet to the SSW	Closed Status Spill (Unk/Other Cause)
112	30 SKILLMAN AVE	30 SKILLMAN AVE	1692 feet to the SSW	Closed Status Spill (Unk/Other Cause)
137	BMT L LINE	LORIMER/METROPOLITIAN	1903 feet to the SSW	Closed Status Spill (Unk/Other Cause)
138	METROPOLITIAN AV AND	LORIMER ST	1903 feet to the SSW	Closed Status Spill (Unk/Other Cause)
149	MANHOLE 4939	564 METROPOLATAIN AVE	2061 feet to the SSW	Closed Status Spill (Unk/Other Cause)
160	MH4940	LORIMER ST/DEVOE ST	2150 feet to the SSW	Closed Status Spill (Unk/Other Cause)

206	522 METROPOLITAN AVE	522 METROPOLITAN AVE	2199 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
164	MAN HOLE #4934	UNION AVE / KEAP ST	2266 feet to the SSW	Closed Status Spill (Unk/Other Cause)
177	MANHOLE 4935	MANHOLE 4935	2463 feet to the SSW	Closed Status Spill (Unk/Other Cause)
187	433 UNION AVE	433 UNION AVE	2527 feet to the SSW	Closed Status Spill (Unk/Other Cause)
195	GAS STATION	417 UNION AVE	2633 feet to the SSW	Closed Status Spill (Unk/Other Cause)
68	59−65 FROST STREET	59−65 FROST STREET	730 feet to the SW	Closed Status Spill (Unk/Other Cause)
43	64 FROST ST	64 FROST STREET	822 feet to the SW	Closed Status Tank Test Failure
82	RESIDENCE	684 LORIMER ST	929 feet to the SW	Closed Status Spill (Unk/Other Cause)
89	MANHOLE #53380	MEEKER AVE/WITHERS ST	1085 feet to the SW	Closed Status Spill (Unk/Other Cause)
91	AMOCO STATION −MTBE	243 MEEKER AVENUE	1311 feet to the SW	Closed Status Spill (Unk/Other Cause)
92	UNDERGROUND	243 MEEKER AVE	1311 feet to the SW	Closed Status Spill (Unk/Other Cause)
203		526 UNION AVE	1586 feet to the SW	Closed Status Spill (Misc. Spill Cause)
109	GAS STATION	25 SKILLMAN AVE	1652 feet to the SW	Closed Status Spill (Unk/Other Cause)
110	25 SKILLMAN AVE	25 SKILLMAN AVE	1652 feet to the SW	Closed Status Spill (Unk/Other Cause)
115	MANHOLE 4930	UNION AVE/JACKSON ST	1737 feet to the SW	Closed Status Spill (Unk/Other Cause)
132	IN STREET	MEEKER AVE/ UNION AVE	1875 feet to the SW	Closed Status Spill (Unk/Other Cause)
45	CLOSED−LACKOF RECENT INFO	275 NORTH 8TH ST.	1899 feet to the SW	Closed Status Tank Test Failure
146	MANHOLE 16282	IFO 288 NO 8TH ST	2011 feet to the SW	Closed Status Spill (Unk/Other Cause)
3	BQE/ANSBACHER COLOR & DYE FACTORY	MEEKER AVENUE	2292 feet to the SW	NYSDEC Inactive Haz Waste Disposal Site
168	STAR SOAP AND CANDLE CO.	304 NORTH 7TH STREET	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
169	STAR SOAP AND CANDLE CO.	304 NORTH 7TH ST	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
170	310 N 7TH ST	310 N 7TH ST	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
178	TRAFFIC ACCIDENT	MEEKER AVE/METROPOLITAN A	2471 feet to the SW	Closed Status Spill (Unk/Other Cause)
41	UNICO GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW	Closed Status Tank Failure
185	GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW	Closed Status Spill (Unk/Other Cause)
37	68 RICHARDSON STREET	68 RICHARDSON STREET	742 feet to the WSW	Closed Status Tank Failure
70	704 LORIMER ST	704 LORIMER ST	825 feet to the WSW	Closed Status Spill (Unk/Other Cause)
94	CONSTRUCTION/EXCAVATION SITE	568 UNION AVENUE	1378 feet to the WSW	Closed Status Spill (Unk/Other Cause)
99	MANHOLE #4900	NORTH 11TH ST/UNION AVE	1477 feet to the WSW	Closed Status Spill (Unk/Other Cause)
107	MANHOLE 4925	WITHERS ST/UNION AV	1615 feet to the WSW	Closed Status Spill (Unk/Other Cause)
108	MANHOLE 53375	WITHERS ST/ UNION AVE	1615 feet to the WSW	Closed Status Spill (Unk/Other Cause)
118	WAREHOUSE	261 NORTH 9TH STREET	1767 feet to the WSW	Closed Status Spill (Unk/Other Cause)
119	MH 4927	HAVERMYER ST/N 9TH ST	1785 feet to the WSW	Closed Status Spill (Unk/Other Cause)
134	COMMERICAL VACANT LOT	235−239 N 9TH STREET	1882 feet to the WSW	Closed Status Spill (Unk/Other Cause)
29	PROPERTY	55 ROEBLING ST	2084 feet to the WSW	Active Haz Spill (Unknown/Other Cause)
153	AUNT HEDDY‘S BAKERY	234 NORTH 9TH STREET	2092 feet to the WSW	Closed Status Spill (Unk/Other Cause)
163	W OF ROBLING AV	N 8TH ST	2226 feet to the WSW	Closed Status Spill (Unk/Other Cause)
179	SUBWAY TRACKS−NYCT	257 NORTH 6TH ST	2471 feet to the WSW	Closed Status Spill (Unk/Other Cause)
181	LOT NEXT TO 583 DRIDGES	CRN DRIGGES AVE & 8TH	2481 feet to the WSW	Closed Status Spill (Unk/Other Cause)
73	INSIDE MCCARREN POOL	BAYARD AND LORIMER ST.	858 feet to the W	Closed Status Spill (Unk/Other Cause)
93	ABANDONED BUCKET	9 RICHARDSON ST	1321 feet to the W	Closed Status Spill (Unk/Other Cause)
38	UNKNOWN GAS STATION	2 ROEBLING ST	1566 feet to the W	Closed Status Tank Failure
102	GAS STATION	2 ROEBLING ST	1566 feet to the W	Closed Status Spill (Unk/Other Cause)
104	MANHOLE #4837	ROEBLING AVE/NORTH 11TH	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
105	CONSTRUCTION SITE	ROEBLING STR/NORTH 11TH	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
106	CONSTRUCTION SITE	NORTH 11TH ST & ROEBLING	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
111	BETWEN NORTH 10 /11TH	ROEBLING	1685 feet to the W	Closed Status Spill (Unk/Other Cause)
26	N 11TH STREET SIDEWALK	204−214 NORTH 11TH ST	1810 feet to the W	Active Haz Spill (Unknown/Other Cause)
122	CONSTRUCTION SITE	ROEBLING STREET	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
123	EXCAVATION	214 NORTH 11TH STREET	1810 feet to the W	Closed Status Spill (Unk/Other Cause)

124	EXCAVATION SITE	204−214 NORTH 11TH ST	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
125	AMONIUM HYDROCHLORIDE SPI	215 N. 10TH ST	1814 feet to the W	Closed Status Spill (Unk/Other Cause)
28	COMMERCIAL PROPERTY	454 DRIGGS AVE	1930 feet to the W	Active Haz Spill (Unknown/Other Cause)
141	COMMERCIAL PROPERTY	200 NORTH 11TH STREET	1951 feet to the W	Closed Status Spill (Unk/Other Cause)
155	213 NORTH 9TH STREET	213−217 NORTH 9TH STREET	2102 feet to the W	Closed Status Spill (Unk/Other Cause)
35	CONSTRUCTION SITE	95 BEDFORD AVE	2130 feet to the W	Active Haz Spill (Misc. Spill Cause)
157	105 BEDFORD AV	105 BEDFORD AVENUE	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
158	NEW APT BLDG/FORMER PAINT FACTORY	95 BEDFORD AVENUE	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
159	EIGHT GAL XFMR LEAK IN MANHOLE #1706	155 NORTH 11 ST (AT BEDFORD AVE).	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
162	HYDRO TECH	170 NORTH 11TH STREET	2208 feet to the W	Closed Status Spill (Unk/Other Cause)
32	169−175 NORTH 10TH STREET	169−175 NORTH 10TH STREET	2222 feet to the W	Active Haz Spill (Unknown/Other Cause)
166	VACANT LOT	165 NORTH 10TH ST	2280 feet to the W	Closed Status Spill (Unk/Other Cause)
171	VACANT/ COMMERCIAL	506 DRIGGS AVE	2367 feet to the W	Closed Status Spill (Unk/Other Cause)
180	CAMPBELL RESIDENCE	120 BEDFORD AVE	2473 feet to the W	Closed Status Spill (Unk/Other Cause)
55	F N W MECHANICAL	139 NORTH 10TH STREET	2554 feet to the W	Closed Status Tank Test Failure
193		BEDFORD AVE/N 9TH ST	2619 feet to the W	Closed Status Spill (Unk/Other Cause)
194	125 NORTH 10TH ST	125 NORTH 10TH ST	2621 feet to the W	Closed Status Spill (Unk/Other Cause)
4	K − WYTHE AVE. STATION	WYTHE AVE., BERRY ST., N 12TH & 13TH ST	2834 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
8	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	3567 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
10	BROOKLYN NORTH 1 GARAGE	50 KENT AVENUE	3858 feet to the WNW	NYSDEC Inactive Haz Waste Registry Qual.
13	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	4095 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
15	KENT TERMINAL	KENT AVE. BETWEEN N.5TH & N.11TH ST.	4336 feet to the WNW	NYSDEC Inactive Haz Waste Registry Qual.
95	MANHOLE 4379	DRIGGS AVE&MANHATTAN AVE	1394 feet to the NW	Closed Status Spill (Unk/Other Cause)
96	**DRILL** TM 755 **DRILL**	**DRILL** DRIGGS AVE/MANHATTAN AV	1394 feet to the NW	Closed Status Spill (Unk/Other Cause)
46	AUTOMOTIVE HIGH SCHOOL − TTF	50 BEDFORD AVENUE	2065 feet to the NW	Closed Status Tank Test Failure
47	PS 610	50 BEDFORD AVENUE	2065 feet to the NW	Closed Status Tank Test Failure
151	MANHOLE 4376 AND BEDFORD	AVE AND LOROMIER AVE	2069 feet to the NW	Closed Status Spill (Unk/Other Cause)
152	MH 4374	NASSAU AV/LAURAMAR AV	2069 feet to the NW	Closed Status Spill (Unk/Other Cause)
172	19 NASSAU AVE./CORNER OF	19 NASSAU AVE	2392 feet to the NW	Closed Status Spill (Unk/Other Cause)
85	CONSTRUCTION SITE	474 LEONARD STREET	1018 feet to the NNW	Closed Status Spill (Unk/Other Cause)
25	JOHN HULEY	498 LEONARD ST	1245 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
44	BRUMAR SHEET METAL INC	498 LEONARD STREET	1245 feet to the NNW	Closed Status Tank Test Failure
23	COMMERCIAL PROPERTY TTF	498 LEONARD ST	1253 feet to the NNW	Active Tank Test Failure
101	BOGUMIL HOME	101 ECKFORD STREET	1555 feet to the NNW	Closed Status Spill (Unk/Other Cause)
126	606 MANHATTAN AVENUE	606 MANHATTAN AVENUE	1822 feet to the NNW	Closed Status Spill (Unk/Other Cause)
40	ADAMS DELI	112 NASSAU AVE	1951 feet to the NNW	Closed Status Tank Failure
140	DELI	112 NASSAU AVE	1951 feet to the NNW	Closed Status Spill (Unk/Other Cause)
31	99 CENT STORE (DOLLAR UP STORE)	640 MANHATTAN AVE	2164 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
161	MANHOLE #4382	640 MANHATTAN AVE	2164 feet to the NNW	Closed Status Spill (Unk/Other Cause)
186	680 MANHATTAN AVE	680 MANHATTAN AVE	2525 feet to the NNW	Closed Status Spill (Unk/Other Cause)
190		IFO 100 MAGUNIS BLVD	2572 feet to the NNW	Closed Status Spill (Unk/Other Cause)

Identified Toxic Sites by Category

415 Manhattan Avenue
Brooklyn, NY 11222

* Compass directions can vary substantially for sites located very close to the subject property address.

National Priority List (NPL) Sites −− Total Sites − 1 — **Database searched at 1 MILE − ASTM required search distance: 1 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
1	NYN000206282	NEWTOWN CREEK	SOUTH END OF IVY HILL ROAD	4730 feet to the ESE

NYSDEC Inactive Haz. Waste Disposal Site Registry −− Total Sites − 14 — **Database searched at 1 MILE − ASTM required search distance: 1 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
2	224005	CITY BARREL CO.	421−429 MEEKER STREET	198 feet to the ENE*
3	224016	BQE/ANSBACHER COLOR & DYE FACTORY	MEEKER AVENUE	2292 feet to the SW
4	224069	K − WYTHE AVE. STATION	WYTHE AVE., BERRY ST., N 12TH & 13TH ST	2834 feet to the WNW
5	224130	FORMER KLINK COSMO CLEANERS	364 RICHARDSON STREET	2857 feet to the E
6	224131	ACME STEEL/METAL WORKS	95 LOMBARDY STREET	3157 feet to the ENE
7	224129	FORMER SPIC AND SPAN CLEANERS AND DYERS, INC.	315 KINGSLAND AVENUE	3347 feet to the NNE
8	224055	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	3567 feet to the WNW
9	224132	ACME STEEL/BRASS FOUNDRY	72 ANTHONY STREET	3641 feet to the ENE
11	224050	K − EQUITY WORKS	MASPETH AND VANDERVORT AVES.	3888 feet to the E
12	224013	MOBIL OIL BROOKLYN TERMINAL	300 N. HENRY ST.	3966 feet to the NNE
13	224055	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	4095 feet to the WNW
16	241117	NEWTOWN CREEK	NEWTOWN CREEK (BETWEEN BROOKLYN AND QUEENS)	4730 feet to the ESE
17	224052	K − GREENPOINT MGP − ENERGY CENTER	287 MASPETH AVENUE	4763 feet to the ENE
18	224034	B.C.F. OIL REFINING, INC.	360−362 MASPETH AVENUE, SOUTHSIDE	4895 feet to the E
19	224067	K − SCHOLES ST. STATION	SCHOLES ST 7 BOGART STS, MESSEROLE & MORGAN AVE.	5007 feet to the SE

Inactive Haz. Waste Disposal Site Registry Qualifying −− Total Sites − 3 — **Database searched at 1 MILE − ASTM required search distance: 1 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
10		BROOKLYN NORTH 1 GARAGE	50 KENT AVENUE	3858 feet to the WNW
14		CARBONA PRODUCTS	330 CALYER STREET	4147 feet to the N
15		KENT TERMINAL	KENT AVE. BETWEEN N.5TH & N.11TH ST.	4336 feet to the WNW

CERCLIS Superfund NFRAP Sites −− Total Sites − 1 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
20	NYD068298835	CITY BARREL	421−429 MEEKER ST	198 feet to the ENE*

Active Tank Failures −− Total Sites − 1 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
21	9703488	ENGINE CO. 229 FDNY −DDC	76 RICHARDSON STREET	558 feet to the WSW

Active Tank Test Failures −− Total Sites − 2 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
22	9007766	MOBIL S/S #17−FX9	550 HUMBOLDT STREET	996 feet to the NE
23	1206982	COMMERCIAL PROPERTY TTF	498 LEONARD ST	1253 feet to the NNW

Active Haz Spills (Unknown Causes & Other Causes) −− Total Sites − 10 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
24	1011266	SUNOCO SERVICE STATION	550 HUMBOLDT ST	988 feet to the NE
25	1205075	JOHN HULEY	498 LEONARD ST	1245 feet to the NNW
26	0750535	N 11TH STREET SIDEWALK	204−214 NORTH 11TH ST	1810 feet to the W
27	8908110	MOBIL	51 KINGSLAND AVE	1825 feet to the ESE
28	0703695	COMMERCIAL PROPERTY	454 DRIGGS AVE	1930 feet to the W

29	0503901	PROPERTY	55 ROEBLING ST	2084 feet to the WSW
30	0330060	WOLF PETROLEUM CORP	2 BUSHWICK AVENUE	2099 feet to the SE
31	0208256	99 CENT STORE (DOLLAR UP STORE)	640 MANHATTAN AVE	2164 feet to the NNW
32	0611495	169−175 NORTH 10TH STREET	169−175 NORTH 10TH STREET	2222 feet to the W
33	9502757	HESS−MERIT STATION 32522	810 METROPOLITAN AVENUE	2241 feet to the SE

Active Haz Spills (Miscellaneous Spill Causes) −− Total Sites − 2 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
34	9103785	FEEDER 61	MEEKER AVE & LEONARD ST	564 feet to the SW
35	0808463	CONSTRUCTION SITE	95 BEDFORD AVE	2130 feet to the W

Closed Status Tank Failures −− Total Sites − 6 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
36	0310672	GAS STATION	392 LEONARD STREET	388 feet to the SW
37	9312569	68 RICHARDSON STREET	68 RICHARDSON STREET	742 feet to the WSW
38	0008335	UNKNOWN GAS STATION	2 ROEBLING ST	1566 feet to the W
39	0409577	RESIDENCE	243 JACKSON STREET	1927 feet to the ESE
40	0013080	ADAMS DELI	112 NASSAU AVE	1951 feet to the NNW
41	9909193	UNICO GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW

Closed Status Tank Test Failures −− Total Sites − 14 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
42	0410348	UNITED AMBULETTE	495 GRAHAM AVE	523 feet to the NNE
43	9601530	64 FROST ST	64 FROST STREET	822 feet to the SW
44	0212132	BRUMAR SHEET METAL INC	498 LEONARD STREET	1245 feet to the NNW
45	8706710	CLOSED−LACKOF RECENT INFO	275 NORTH 8TH ST.	1899 feet to the SW
46	0900454	AUTOMOTIVE HIGH SCHOOL − TTF	50 BEDFORD AVENUE	2065 feet to the NW
47	0004062	PS 610	50 BEDFORD AVENUE	2065 feet to the NW
48	8900824	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE
49	9404715	810 METROPOLITAN AVE	810 METROPOLITAN AVENUE	2241 feet to the SE
50	0510292	BUSINESS	32 BEADEL STREET	2316 feet to the ENE
51	9515837	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E
52	9515713	COOPER PARK HOUSING −NYCHA	295 JACKSON ST	2357 feet to the E
53	9414384	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E
54	9414271	COOPER PARK	295 JACKSON ST	2357 feet to the E
55	0306649	F N W MECHANICAL	139 NORTH 10TH STREET	2554 feet to the W

Closed Status Spills (Unknown Causes & Other Causes) −− Total Sites − 141 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
56	1011703	TRANSMISSION MANHOLE 71303	MEEKER AND RICHARDSON ST	137 feet to the SE*
57	0008222	SERVICE BOX	87 RICHARDSON ST	313 feet to the WSW
58	0001500	MANHOLE (UNK #)	87 RICHARDSON ST	313 feet to the WSW
59	0408368	COMMERCIAL PROPERTY	120 NEWTON AVENUE	373 feet to the N
60	9900802		392 LEONARD STREET	388 feet to the SW
61	0610686	CONSTUCTION SITE	392 LEONARD STREET	388 feet to the SW
62	9900576	VS 3971	BAYARD ST/LENARD ST	407 feet to the W
63	1011113	INTERSECTION FROM MANHOLE 4917	MANHATTAN AVE AND FROST ST	413 feet to the SSE
64	0409303	COMMERCIAL LOT	407 LEONARD STREET/BAYARD	459 feet to the W
65	0130048	COMMERCIAL LOT	407 LEONARD ST	459 feet to the W
66	9809496	CHLORINE FACTORY	126 NEWTON ST	474 feet to the N
67	0904192	MANHOLE 64805	MEECKER AVE A DN FROST ST	564 feet to the SW
68	0212488	59−65 FROST STREET	59−65 FROST STREET	730 feet to the SW
69	0507793	PAINT FACTORY	415 GRAHAM AVE	770 feet to the SE

70	0106834	704 LORIMER ST	704 LORIMER ST	825 feet to the WSW
71	9909588		354 LEONARD ST	852 feet to the SSW
72	9814583		354 LEONARD ST	852 feet to the SSW
73	0907892	INSIDE MCCARREN POOL	BAYARD AND LORIMER ST.	858 feet to the W
74	0911958	PRIVATE DWELLING	184 RICHARDSON STREET	861 feet to the E
75	0911853	SUMNER RESIDENCE	184 RICHARDSON ST	861 feet to the E
76	0505877	OLD PAINT FACTORY	133 JACKSON AVE	870 feet to the SSE
77	0501932	CONSTRUCTION SITE	133 JACKSON AVE	870 feet to the SSE
78	9902395	BRONX QUEENS EXPRESSWAY	EXIT 33 MCGUINNESS BLVD	872 feet to the ENE
79	9608808	BROOKLYN/QUEENS EXPWY	AND MCGINNIS BLVD	872 feet to the ENE
80	0308472	IN ROADWAY	BROOKLYN QUEENS EXPRESSWAY @ MCGUINNESS BLVD	872 feet to the ENE
81	9901924	MANHOLE 55946B	HUMBOLT ST MCGUINESS ST	883 feet to the NE
82	0811948	RESIDENCE	684 LORIMER ST	929 feet to the SW
83	0710898	FORMER GAS	550 HUMBOLT ST	996 feet to the NE
84	0508671	MONITORING WELL	550 HUMBOLDT STREET	996 feet to the NE
85	0401691	CONSTRUCTION SITE	474 LEONARD STREET	1018 feet to the NNW
86	0508101	EXCAVATION	140 JACKSON STREET	1025 feet to the SSE
87	0705867	GREEN POINT CAR WASH, INC.	(AKA AUTOCLEAN CARWASH, INC.)	1028 feet to the N
88	0602810	CONSTRUCTION SITE	351 MANHATTAN AVE	1041 feet to the S
89	9909065	MANHOLE #53380	MEEKER AVE/WITHERS ST	1085 feet to the SW
90	0811473	RESIDENCE	381 GRAHAM AVE APT 2	1190 feet to the SSE
91	9414922	AMOCO STATION −MTBE	243 MEEKER AVENUE	1311 feet to the SW
92	1201151	UNDERGROUND	243 MEEKER AVE	1311 feet to the SW
93	0800508	ABANDONED BUCKET	9 RICHARDSON ST	1321 feet to the W
94	0911340	CONSTRUCTION/EXCAVATION SITE	568 UNION AVENUE	1378 feet to the WSW
95	9911825	MANHOLE 4379	DRIGGS AVE&MANHATTAN AVE	1394 feet to the NW
96	0002248	**DRILL** TM 755 **DRILL**	**DRILL** DRIGGS AVE/MANHATTAN AV	1394 feet to the NW
97	0106443	MANHOLE #TM 633	NEWELL ST & DRIGGS AV	1429 feet to the N
98	9704676	CORNOR OF CONSELYEA	MANHATTEN AVE	1450 feet to the S
99	9910471	MANHOLE #4900	NORTH 11TH ST/UNION AVE	1477 feet to the WSW
100	0601565	GAS STATION	116 CONSELYEA STREET	1506 feet to the S
101	0612279	BOGUMIL HOME	101 ECKFORD STREET	1555 feet to the NNW
102	0000373	GAS STATION	2 ROEBLING ST	1566 feet to the W
103	0713068	SCHOOL	320 MANHATTAN AVE.	1570 feet to the SSE
104	9812337	MANHOLE #4837	ROEBLING AVE/NORTH 11TH	1596 feet to the W
105	0701326	CONSTRUCTION SITE	ROEBLING STR/NORTH 11TH	1596 feet to the W
106	0608859	CONSTRUCTION SITE	NORTH 11TH ST & ROEBLING	1596 feet to the W
107	9910080	MANHOLE 4925	WITHERS ST/UNION AV	1615 feet to the WSW
108	9909108	MANHOLE 53375	WITHERS ST/ UNION AVE	1615 feet to the WSW
109	9608904	GAS STATION	25 SKILLMAN AVE	1652 feet to the SW
110	9111612	25 SKILLMAN AVE	25 SKILLMAN AVE	1652 feet to the SW
111	0612377	BETWEN NORTH 10 /11TH	ROEBLING	1685 feet to the W
112	9200714	30 SKILLMAN AVE	30 SKILLMAN AVE	1692 feet to the SSW
113	0514290	MANUFACTURING FACILITY	78 KINGSLAND AVE	1724 feet to the E
114	9912570	SERVICE BOX #12699	107 KINGSLAND AVE	1730 feet to the ENE
115	9910564	MANHOLE 4930	UNION AVE/JACKSON ST	1737 feet to the SW
116	9706969	MCGINNESS AVE BETWEEN	NASSAU AVE DRIBBS AVE	1739 feet to the N
117	0706573	APPEARS THAT 20 GAL COOKING OIL	LEONARD ST & METROPOLITAN AVE	1747 feet to the S
118	0602498	WAREHOUSE	261 NORTH 9TH STREET	1767 feet to the WSW
119	0202473	MH 4927	HAVERMYER ST/N 9TH ST	1785 feet to the WSW
120	9000154	387 HUMBOLDT ST/BKLYN	387 HUMBOLDT STREET	1785 feet to the SE
121	0101039	RESIDENCE	41 NEWELL ST	1788 feet to the N
122	0613238	CONSTRUCTION SITE	ROEBLING STREET	1810 feet to the W

123	0612680	EXCAVATION	214 NORTH 11TH STREET	1810 feet to the W
124	0605974	EXCAVATION SITE	204−214 NORTH 11TH ST	1810 feet to the W
125	8604708	AMONIUM HYDROCHLORIDE SPI	215 N. 10TH ST	1814 feet to the W
126	9315136	606 MANHATTAN AVENUE	606 MANHATTAN AVENUE	1822 feet to the NNW
127	1204885	51 KINGLAND AVENUE	51 KINKGLAND AVE	1825 feet to the ESE
128	0504371	VS 5950	E SIDE KINGSLAND AVE/NEAR FROST ST	1838 feet to the E
129	0401647	VS5950 − VAULT	KINGSLAND AV/FROST ST	1838 feet to the E
130	0002006	KINGSLAND & FROST AVENUE −MTBE	KINGSLAND AVENUE	1838 feet to the E
131	9212899	625 HUMBOLDT STREET	625 HUMBOLDT STREET	1871 feet to the NNE
132	0613323	IN STREET	MEEKER AVE/ UNION AVE	1875 feet to the SW
133	9012712	104 KINGSLAND AVE/BKLYN	104 KINGSLAND AVENUE	1875 feet to the ENE
134	0801333	COMMERICAL VACANT LOT	235−239 N 9TH STREET	1882 feet to the WSW
135	9309647	44 NEWELL STREET	44 NEWELL STREET	1890 feet to the N
136	1113750	APARTMENT BLDG	243 JACKSON STREET	1901 feet to the ESE
137	0607434	BMT L LINE	LORIMER/METROPOLITIAN	1903 feet to the SSW
138	0002207	METROPOLITIAN AV AND	LORIMER ST	1903 feet to the SSW
139	9614038	DOUBLE GREEN	122 KINGSLAND AVENUE	1932 feet to the ENE
140	0013079	DELI	112 NASSAU AVE	1951 feet to the NNW
141	0609092	COMMERCIAL PROPERTY	200 NORTH 11TH STREET	1951 feet to the W
142	9903762	SANITATION COMPANY	244 SKILLMAN AVE	1986 feet to the ESE
143	9103684	18 DIVISION PL/BKLYN	18 DIVISION PLACE	1987 feet to the ENE
144	0109317	GOODMAN BROT STEEL DRUMS	18 DIVISION ST	1987 feet to the ENE
145	0109316	GOODMAN BROT STEEL DRUMS	18 DIVISION PL	1987 feet to the ENE
146	9902735	MANHOLE 16282	IFO 288 NO 8TH ST	2011 feet to the SW
147	0400590	CON ED VAULT #4233	JACKSON/KINGSLEY	2021 feet to the ESE
148	9502369	NYS DOT − BQE	KINGSLAND & MEEKER AVES	2022 feet to the NE
149	9901889	MANHOLE 4939	564 METROPOLATAIN AVE	2061 feet to the SSW
150	9203429	MONITOR ST & DRIGGS AVE	MONITOR ST & DRIGGS AVE	2062 feet to the NE
151	9914569	MANHOLE 4376 AND BEDFORD	AVE AND LOROMIER AVE	2069 feet to the NW
152	0007726	MH 4374	NASSAU AV/LAURAMAR AV	2069 feet to the NW
153	0608858	AUNT HEDDY‘S BAKERY	234 NORTH 9TH STREET	2092 feet to the WSW
154	9110815	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE
155	0708819	213 NORTH 9TH STREET	213−217 NORTH 9TH STREET	2102 feet to the W
156	9814654	SERVICE VS5743	BEADEL ST/DEBEVOISE ST	2107 feet to the ENE
157	9711671	105 BEDFORD AV	105 BEDFORD AVENUE	2130 feet to the W
158	1001766	NEW APT BLDG/FORMER PAINT FACTORY	95 BEDFORD AVENUE	2130 feet to the W
159	0707397	EIGHT GAL XFMR LEAK IN MANHOLE #1706	155 NORTH 11 ST (AT BEDFORD AVE).	2130 feet to the W
160	0006690	MH4940	LORIMER ST/DEVOE ST	2150 feet to the SSW
161	9911493	MANHOLE #4382	640 MANHATTAN AVE	2164 feet to the NNW
162	0508858	HYDRO TECH	170 NORTH 11TH STREET	2208 feet to the W
163	9814263	W OF ROBLING AV	N 8TH ST	2226 feet to the WSW
164	0004891	MAN HOLE #4934	UNION AVE / KEAP ST	2266 feet to the SSW
165	0000119	MH 225	AINSLIE ST/LEONARD ST	2269 feet to the S
166	0601688	VACANT LOT	165 NORTH 10TH ST	2280 feet to the W
167	9905189	IFO HOUSE	143 AINSLIE ST	2293 feet to the S
168	0706592	STAR SOAP AND CANDLE CO.	304 NORTH 7TH STREET	2303 feet to the SW
169	0706478	STAR SOAP AND CANDLE CO.	304 NORTH 7TH ST	2303 feet to the SW
170	0510912	310 N 7TH ST	310 N 7TH ST	2303 feet to the SW
171	0712729	VACANT/ COMMERCIAL	506 DRIGGS AVE	2367 feet to the W
172	8706359	19 NASSAU AVE./CORNER OF	19 NASSAU AVE	2392 feet to the NW
173	0412597	VAULT TM613	HUMBOLDT ST. AND NASSAU A	2420 feet to the N
174	0911638	CON EDISON MANHOLE 12371	53 DIVISON PLACE	2435 feet to the ENE
175	0700409	ONE QT OIL FOUND IN MANHOLE #2694	DEBEVOISE & JACKSON STREETS	2439 feet to the E

176	0008346	SERVICE BOX 12690	206 KINGSLAND AVE	2448 feet to the NE
177	9910034	MANHOLE 4935	MANHOLE 4935	2463 feet to the SSW
178	0702380	TRAFFIC ACCIDENT	MEEKER AVE/METROPOLITAN A	2471 feet to the SW
179	9800896	SUBWAY TRACKS−NYCT	257 NORTH 6TH ST	2471 feet to the WSW
180	9702730	CAMPBELL RESIDENCE	120 BEDFORD AVE	2473 feet to the W
181	9904275	LOT NEXT TO 583 DRIDGES	CRN DRIGGES AVE & 8TH	2481 feet to the WSW
182	9403707	MANHATTAN AVE & POWERS ST	MANHATTAN AVE / POWERS ST	2496 feet to the S
183	0406156	MANHOLE 63577	NASSAU AVE/RUSSELL ST	2517 feet to the NNE
184	0200410	MANHOLE #64589	RUSSELL & NASSAU ST	2517 feet to the NNE
185	9909344	GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW
186	9415336	680 MANHATTAN AVE	680 MANHATTAN AVE	2525 feet to the NNW
187	9800933	433 UNION AVE	433 UNION AVE	2527 feet to the SSW
188	9812352	MANHOLE #56358	DIVISION PL/MORGAN AVE	2570 feet to the ENE
189	9809860	MH #16092	MORGAN AVE & DIVISION PL	2570 feet to the ENE
190	0013237		IFO 100 MAGUNIS BLVD	2572 feet to the NNW
191	9204995	535 MORGAN AVE	535 MORGAN AVE	2573 feet to the ENE
192	0100016	RESIDENCE	50 BUSHWICK AVE	2598 feet to the SE
193	0303594		BEDFORD AVE/N 9TH ST	2619 feet to the W
194	9902614	125 NORTH 10TH ST	125 NORTH 10TH ST	2621 feet to the W
195	9803138	GAS STATION	417 UNION AVE	2633 feet to the SSW
196	0205855	S & S PRINTING	488 MORGAN AVE	2639 feet to the ENE

Closed Status Spills (Miscellaneous Spill Causes) −− Total Sites − 14 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
197	0608057	BROOKLYN QUEENS EXPRESS	GRAHAM AVE EAST BOUND DIR	466 feet to the ENE
198	9608634	GELFAND RES.	398 MANHATTAN AVE	468 feet to the SSE
199	0711236	INTERMASTER	387 MANHATTAN AVE	491 feet to the S
200	9400072	375 MANHATTAN AVENUE	375 MANHATTAN AVENUE	620 feet to the S
201	0007090	MCGUINESS BLVD & BQE	MCGUINESS BLVD & BQE	872 feet to the ENE
202	8606018	43 HERBERT STREET,BKLYN/R	43 HERBERT ST	970 feet to the ENE
203	9811933		526 UNION AVE	1586 feet to the SW
204	8805035	APARTMENT BLDG	677 METROPOLITAN AV	1609 feet to the S
205	0107722	TM 640	HERBERT ST & KINGSLAND AVE	1822 feet to the ENE
206	9515443	522 METROPOLITAN AVE	522 METROPOLITAN AVE	2199 feet to the SSW
207	8807632	810 METROPOLITAN AV/MERIT	810 METROPOLITAN AVENUE	2241 feet to the SE
208	8601471	NATIONAL DRUM	35 BEADEL STREET	2302 feet to the ENE
209	0201184		505 MORGAN AVE	2497 feet to the ENE
210	0111362		ANTHONY ST/MORGAN AVE	2639 feet to the ENE

Petroleum Bulk Storage Sites −− Total Sites − 14 **Database searched at 1/8 MILE − ASTM required search distance: Property & Adjacent**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
211	2−090301	ISRAEL M DOLGIN ASSOC	101 RICHARDSON STREET	197 feet to the WSW*
212	NY05058	ISREAL M DOLGIN ASSC	87 RICHARDSON ST	313 feet to the WSW
213	2−510793	278 FUEL STOP, INC.	392 LEONARD STREET	386 feet to the SW
214	2−611136	A−I AUTO REPAIRS INC.	392 LEONARD STREET	386 feet to the SW
215	2−356476	JUNIOR HIGH SCHOOL 126 − BROOKLYN	424 LEONARD STREET	433 feet to the NW
216	2−257958	D L BRENNER & SONS INC	407 LEONARD ST	469 feet to the W
217	2−610788	INTER MASTER CORP	387 MANHATTAN AVE.	494 feet to the S
218	NY03031	DAMATO SALES & SERVICES	104 FROST ST	497 feet to the S
219	2−069140	TRICO ELECTRICAL CORP.	495 GRAHAM AVE	517 feet to the NNE
220	2−600510	FDNY ENGINE 229 / LADDER 146	75 RICHARDSON STREET	548 feet to the WSW
221	2−045799	MOBILE SYSTEMS UNIT	75 FROST STREET	584 feet to the SW
222	2−609713	ALL BORO	391 LEONARD STREET	584 feet to the SW

223	NY04036	FRATELLI RICATTO	391 LEONARD ST	584 feet to the SW
224	NY02925	CREST BODY EQUIP CRP	72 BAYARD ST	595 feet to the W

Hazardous Waste Generators, Transporters −− Total Sites − 17 **Database searched at 1/8 MILE − ASTM required search distance: Property & Adjacent**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
225	NYP004043931	CONSOLIDATED EDISON	MEEKER AVE & RICHARDSON	137 feet to the SE*
226	NYP004137071	CONSOLIDATED EIDSON	MEEKER & MANHATTAN MH64805	137 feet to the SE*
227	NYP004203194	CONSOLIDATED EDISON	MEEKER−N−RICHARDSON	137 feet to the SE*
228	NYP004223194	CONSOLIDATED EDISON	MEEKER & RICHARDSON	137 feet to the SE*
229	NYR000155804	NYSDOT BIN 1065609	I−278 OVER MANHATTAN AVE	137 feet to the SE*
230	NYD068298835	CITY BARREL & DRUM CO INC	421 MEEKER AVE	190 feet to the ENE*
231	NYR000106922	NYC BOARD OF EDUCATION PS 126 K	424 LEONARD ST	366 feet to the NW
232	NYP004153664	CONSOLIDATED EDISON	BAYARD ST & LEONARD ST	407 feet to the W
233	NYR000155788	NYSDOT BIN 106560A	I−278 EB OVER GRAHAM AVE	466 feet to the ENE
234	NYR000155796	NYSDOT BIN 106560B	I−278 WB OVER GRAHAM AVE	466 feet to the ENE
235	NYD986929677	GRAF AIR	407 LEONARD ST	477 feet to the WSW
236	NYR000040410	NYC FIRE DEPT ENGINE CO 229	75 RICHARDSON ST	551 feet to the WSW
237	NYP004029153	CONSOLIDATED EDISON	MH64805−MEEKER AVE & FROST ST	564 feet to the SW
238	NYP004150322	CONSOLIDATED EDISON	MEEKER AVE AND FROST ST	564 feet to the SW
239	NYP004185401	CONSOLIDATED EDISON	MEEKER AVE & FROST ST − MH64805	564 feet to the SW
240	NYP000954487	NYCDEP	75 FROST ST	592 feet to the SW
241	NYP003600826	NYCDEP	75 FROST ST	592 feet to the SW

Hazardous Substance Waste Disposal Sites −− Total Sites − 1 **Database searched at 1/2 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
242		CITY BARREL	421 MEEKER STREET	188 feet to the ENE*

Air Discharge Sites −− Total Sites − 1 **Database searched at 1/8 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
243	36047P0003	ELLI WOODWORKING INDUSTRIES	121−125 NEWTON STREET	595 feet to the N

Civil & Administrative Enforcement Docket Sites −− Total Sites − 1 **Database searched at 1/8 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
244	NY0000379990	NYC BD OF ED − JUNIOR HIGH SCH	424 LEONARD STREET	368 feet to the NNW

NYC Env. Quality Review − Env. Designation Sites −− Total Sites − 13 **Database searched at 250 FT − ASTM required search distance: Onsite Only**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
245	E−138	BLOCK: 2723 LOT: 30	415 MANHATTAN AVENUE	0 feet
246	E−138	BLOCK: 2723 LOT: 29	417 MANHATTAN AVENUE	26 feet to the NW*
247	E−138	BLOCK: 2723 LOT: 33	391 MEEKER AVENUE	87 feet to the S*
248	E−138	BLOCK: 2723 LOT: 36	113 RICHARDSON STREET	104 feet to the SW*
249	E−138	BLOCK: 2723 LOT: 37	111 RICHARDSON STREET	123 feet to the SW*
250	E−138	BLOCK: 2724 LOT: 1	411 MEEKER AVENUE	125 feet to the ENE*
251	E−138	BLOCK: 2724 LOT: 37	417 MEEKER AVENUE	152 feet to the ENE*
252	E−138	BLOCK: 2724 LOT: 7	430 MANHATTAN AVENUE	180 feet to the NNE*
253	E−138	BLOCK: 2724 LOT: 34	419 MEEKER AVENUE	191 feet to the ENE*
254	E−138	BLOCK: 2723 LOT: 38	101 RICHARDSON STREET	202 feet to the WSW
255	E−138	BLOCK: 2724 LOT: 10	130 BAYARD STREET	217 feet to the NNE
256	E−138	BLOCK: 2724 LOT: 33	MEEKER AVENUE	221 feet to the ENE
257	E−138	BLOCK: 2724 LOT: 31	433 MEEKER AVENUE	247 feet to the ENE

Identified Toxic Sites by Proximity

415 Manhattan Avenue, Brooklyn, NY 11222

* Compass directions can vary substantially for sites located very close to the subject property address.

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
245	BLOCK: 2723 LOT: 30	415 MANHATTAN AVENUE	0 feet	NYC Env. Qual. Review−"E" Designation
246	BLOCK: 2723 LOT: 29	417 MANHATTAN AVENUE	26 feet to the NW*	NYC Env. Qual. Review−"E" Designation
247	BLOCK: 2723 LOT: 33	391 MEEKER AVENUE	87 feet to the S*	NYC Env. Qual. Review−"E" Designation
248	BLOCK: 2723 LOT: 36	113 RICHARDSON STREET	104 feet to the SW*	NYC Env. Qual. Review−"E" Designation
249	BLOCK: 2723 LOT: 37	111 RICHARDSON STREET	123 feet to the SW*	NYC Env. Qual. Review−"E" Designation
250	BLOCK: 2724 LOT: 1	411 MEEKER AVENUE	125 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
56	TRANSMISSION MANHOLE 71303	MEEKER AND RICHARDSON ST	137 feet to the SE*	Closed Status Spill (Unk/Other Cause)
225	CONSOLIDATED EDISON	MEEKER AVE & RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
226	CONSOLIDATED EIDSON	MEEKER & MANHATTAN MH64805	137 feet to the SE*	Hazardous Waste Generator/Transporter
227	CONSOLIDATED EDISON	MEEKER−N−RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
228	CONSOLIDATED EDISON	MEEKER & RICHARDSON	137 feet to the SE*	Hazardous Waste Generator/Transporter
229	NYSDOT BIN 1065609	I−278 OVER MANHATTAN AVE	137 feet to the SE*	Hazardous Waste Generator/Transporter
251	BLOCK: 2724 LOT: 37	417 MEEKER AVENUE	152 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
252	BLOCK: 2724 LOT: 7	430 MANHATTAN AVENUE	180 feet to the NNE*	NYC Env. Qual. Review−"E" Designation
242	CITY BARREL	421 MEEKER STREET	188 feet to the ENE*	Hazardous Substance Waste Disposal Site
230	CITY BARREL & DRUM CO INC	421 MEEKER AVE	190 feet to the ENE*	Hazardous Waste Generator/Transporter
253	BLOCK: 2724 LOT: 34	419 MEEKER AVENUE	191 feet to the ENE*	NYC Env. Qual. Review−"E" Designation
211	ISRAEL M DOLGIN ASSOC	101 RICHARDSON STREET	197 feet to the WSW*	Petroleum Bulk Storage Site
2	CITY BARREL CO.	421−429 MEEKER STREET	198 feet to the ENE*	NYSDEC Inactive Haz Waste Disposal Site
20	CITY BARREL	421−429 MEEKER ST	198 feet to the ENE*	CERCLIS Superfund NFRAP Site
254	BLOCK: 2723 LOT: 38	101 RICHARDSON STREET	202 feet to the WSW	NYC Env. Qual. Review−"E" Designation
255	BLOCK: 2724 LOT: 10	130 BAYARD STREET	217 feet to the NNE	NYC Env. Qual. Review−"E" Designation
256	BLOCK: 2724 LOT: 33	MEEKER AVENUE	221 feet to the ENE	NYC Env. Qual. Review−"E" Designation
257	BLOCK: 2724 LOT: 31	433 MEEKER AVENUE	247 feet to the ENE	NYC Env. Qual. Review−"E" Designation
57	SERVICE BOX	87 RICHARDSON ST	313 feet to the WSW	Closed Status Spill (Unk/Other Cause)
58	MANHOLE (UNK #)	87 RICHARDSON ST	313 feet to the WSW	Closed Status Spill (Unk/Other Cause)
212	ISREAL M DOLGIN ASSC	87 RICHARDSON ST	313 feet to the WSW	Petroleum Bulk Storage Site
231	NYC BOARD OF EDUCATION PS 126 K	424 LEONARD ST	366 feet to the NW	Hazardous Waste Generator/Transporter
244	NYC BD OF ED − JUNIOR HIGH SCH	424 LEONARD STREET	368 feet to the NNW	Civil & Admin. Enforcement Docket Site
59	COMMERCIAL PROPERTY	120 NEWTON AVENUE	373 feet to the N	Closed Status Spill (Unk/Other Cause)
213	278 FUEL STOP, INC.	392 LEONARD STREET	386 feet to the SW	Petroleum Bulk Storage Site
214	A−I AUTO REPAIRS INC.	392 LEONARD STREET	386 feet to the SW	Petroleum Bulk Storage Site
36	GAS STATION	392 LEONARD STREET	388 feet to the SW	Closed Status Tank Failure
60		392 LEONARD STREET	388 feet to the SW	Closed Status Spill (Unk/Other Cause)
61	CONSTUCTION SITE	392 LEONARD STREET	388 feet to the SW	Closed Status Spill (Unk/Other Cause)
62	VS 3971	BAYARD ST/LENARD ST	407 feet to the W	Closed Status Spill (Unk/Other Cause)
232	CONSOLIDATED EDISON	BAYARD ST & LEONARD ST	407 feet to the W	Hazardous Waste Generator/Transporter
63	INTERSECTION FROM MANHOLE 4917	MANHATTAN AVE AND FROST ST	413 feet to the SSE	Closed Status Spill (Unk/Other Cause)
215	JUNIOR HIGH SCHOOL 126 − BROOKLYN	424 LEONARD STREET	433 feet to the NW	Petroleum Bulk Storage Site
64	COMMERCIAL LOT	407 LEONARD STREET/BAYARD	459 feet to the W	Closed Status Spill (Unk/Other Cause)
65	COMMERCIAL LOT	407 LEONARD ST	459 feet to the W	Closed Status Spill (Unk/Other Cause)
197	BROOKLYN QUEENS EXPRESS	GRAHAM AVE EAST BOUND DIR	466 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
233	NYSDOT BIN 106560A	I−278 EB OVER GRAHAM AVE	466 feet to the ENE	Hazardous Waste Generator/Transporter
234	NYSDOT BIN 106560B	I−278 WB OVER GRAHAM AVE	466 feet to the ENE	Hazardous Waste Generator/Transporter
198	GELFAND RES.	398 MANHATTAN AVE	468 feet to the SSE	Closed Status Spill (Misc. Spill Cause)

216	D L BRENNER & SONS INC	407 LEONARD ST	469 feet to the W	Petroleum Bulk Storage Site
66	CHLORINE FACTORY	126 NEWTON ST	474 feet to the N	Closed Status Spill (Unk/Other Cause)
235	GRAF AIR	407 LEONARD ST	477 feet to the WSW	Hazardous Waste Generator/Transporter
199	INTERMASTER	387 MANHATTAN AVE	491 feet to the S	Closed Status Spill (Misc. Spill Cause)
217	INTER MASTER CORP	387 MANHATTAN AVE.	494 feet to the S	Petroleum Bulk Storage Site
218	DAMATO SALES & SERVICES	104 FROST ST	497 feet to the S	Petroleum Bulk Storage Site
219	TRICO ELECTRICAL CORP.	495 GRAHAM AVE	517 feet to the NNE	Petroleum Bulk Storage Site
42	UNITED AMBULETTE	495 GRAHAM AVE	523 feet to the NNE	Closed Status Tank Test Failure
220	FDNY ENGINE 229 / LADDER 146	75 RICHARDSON STREET	548 feet to the WSW	Petroleum Bulk Storage Site
236	NYC FIRE DEPT ENGINE CO 229	75 RICHARDSON ST	551 feet to the WSW	Hazardous Waste Generator/Transporter
21	ENGINE CO. 229 FDNY −DDC	76 RICHARDSON STREET	558 feet to the WSW	Active Tank Failure
34	FEEDER 61	MEEKER AVE & LEONARD ST	564 feet to the SW	Active Haz Spill (Misc. Spill Cause)
67	MANHOLE 64805	MEECKER AVE A DN FROST ST	564 feet to the SW	Closed Status Spill (Unk/Other Cause)
237	CONSOLIDATED EDISON	MH64805−MEEKER AVE & FROST ST	564 feet to the SW	Hazardous Waste Generator/Transporter
238	CONSOLIDATED EDISON	MEEKER AVE AND FROST ST	564 feet to the SW	Hazardous Waste Generator/Transporter
239	CONSOLIDATED EDISON	MEEKER AVE & FROST ST − MH64805	564 feet to the SW	Hazardous Waste Generator/Transporter
221	MOBILE SYSTEMS UNIT	75 FROST STREET	584 feet to the SW	Petroleum Bulk Storage Site
222	ALL BORO	391 LEONARD STREET	584 feet to the SW	Petroleum Bulk Storage Site
223	FRATELLI RICATTO	391 LEONARD ST	584 feet to the SW	Petroleum Bulk Storage Site
240	NYCDEP	75 FROST ST	592 feet to the SW	Hazardous Waste Generator/Transporter
241	NYCDEP	75 FROST ST	592 feet to the SW	Hazardous Waste Generator/Transporter
224	CREST BODY EQUIP CRP	72 BAYARD ST	595 feet to the W	Petroleum Bulk Storage Site
243	ELLI WOODWORKING INDUSTRIES	121−125 NEWTON STREET	595 feet to the N	Air Discharge Site
200	375 MANHATTAN AVENUE	375 MANHATTAN AVENUE	620 feet to the S	Closed Status Spill (Misc. Spill Cause)
68	59−65 FROST STREET	59−65 FROST STREET	730 feet to the SW	Closed Status Spill (Unk/Other Cause)
37	68 RICHARDSON STREET	68 RICHARDSON STREET	742 feet to the WSW	Closed Status Tank Failure
69	PAINT FACTORY	415 GRAHAM AVE	770 feet to the SE	Closed Status Spill (Unk/Other Cause)
43	64 FROST ST	64 FROST STREET	822 feet to the SW	Closed Status Tank Test Failure
70	704 LORIMER ST	704 LORIMER ST	825 feet to the WSW	Closed Status Spill (Unk/Other Cause)
71		354 LEONARD ST	852 feet to the SSW	Closed Status Spill (Unk/Other Cause)
72		354 LEONARD ST	852 feet to the SSW	Closed Status Spill (Unk/Other Cause)
73	INSIDE MCCARREN POOL	BAYARD AND LORIMER ST.	858 feet to the W	Closed Status Spill (Unk/Other Cause)
74	PRIVATE DWELLING	184 RICHARDSON STREET	861 feet to the E	Closed Status Spill (Unk/Other Cause)
75	SUMNER RESIDENCE	184 RICHARDSON ST	861 feet to the E	Closed Status Spill (Unk/Other Cause)
76	OLD PAINT FACTORY	133 JACKSON AVE	870 feet to the SSE	Closed Status Spill (Unk/Other Cause)
77	CONSTRUCTION SITE	133 JACKSON AVE	870 feet to the SSE	Closed Status Spill (Unk/Other Cause)
78	BRONX QUEENS EXPRESSWAY	EXIT 33 MCGUINNESS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
79	BROOKLYN/QUEENS EXPWY	AND MCGINNIS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
80	IN ROADWAY	BROOKLYN QUEENS EXPRESSWAY @ MCGUINNESS BLVD	872 feet to the ENE	Closed Status Spill (Unk/Other Cause)
201	MCGUINESS BLVD & BQE	MCGUINESS BLVD & BQE	872 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
81	MANHOLE 55946B	HUMBOLT ST MCGUINESS ST	883 feet to the NE	Closed Status Spill (Unk/Other Cause)
82	RESIDENCE	684 LORIMER ST	929 feet to the SW	Closed Status Spill (Unk/Other Cause)
202	43 HERBERT STREET,BKLYN/R	43 HERBERT ST	970 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
24	SUNOCO SERVICE STATION	550 HUMBOLDT ST	988 feet to the NE	Active Haz Spill (Unknown/Other Cause)
22	MOBIL S/S #17−FX9	550 HUMBOLDT STREET	996 feet to the NE	Active Tank Test Failure
83	FORMER GAS	550 HUMBOLT ST	996 feet to the NE	Closed Status Spill (Unk/Other Cause)
84	MONITORING WELL	550 HUMBOLDT STREET	996 feet to the NE	Closed Status Spill (Unk/Other Cause)
85	CONSTRUCTION SITE	474 LEONARD STREET	1018 feet to the NNW	Closed Status Spill (Unk/Other Cause)
86	EXCAVATION	140 JACKSON STREET	1025 feet to the SSE	Closed Status Spill (Unk/Other Cause)
87	GREEN POINT CAR WASH, INC.	(AKA AUTOCLEAN CARWASH, INC.)	1028 feet to the N	Closed Status Spill (Unk/Other Cause)
88	CONSTRUCTION SITE	351 MANHATTAN AVE	1041 feet to the S	Closed Status Spill (Unk/Other Cause)
89	MANHOLE #53380	MEEKER AVE/WITHERS ST	1085 feet to the SW	Closed Status Spill (Unk/Other Cause)
90	RESIDENCE	381 GRAHAM AVE APT 2	1190 feet to the SSE	Closed Status Spill (Unk/Other Cause)

25	JOHN HULEY	498 LEONARD ST	1245 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
44	BRUMAR SHEET METAL INC	498 LEONARD STREET	1245 feet to the NNW	Closed Status Tank Test Failure
23	COMMERCIAL PROPERTY TTF	498 LEONARD ST	1253 feet to the NNW	Active Tank Test Failure
91	AMOCO STATION −MTBE	243 MEEKER AVENUE	1311 feet to the SW	Closed Status Spill (Unk/Other Cause)
92	UNDERGROUND	243 MEEKER AVE	1311 feet to the SW	Closed Status Spill (Unk/Other Cause)
93	ABANDONED BUCKET	9 RICHARDSON ST	1321 feet to the W	Closed Status Spill (Unk/Other Cause)
94	CONSTRUCTION/EXCAVATION SITE	568 UNION AVENUE	1378 feet to the WSW	Closed Status Spill (Unk/Other Cause)
95	MANHOLE 4379	DRIGGS AVE&MANHATTAN AVE	1394 feet to the NW	Closed Status Spill (Unk/Other Cause)
96	**DRILL** TM 755 **DRILL**	**DRILL** DRIGGS AVE/MANHATTAN AV	1394 feet to the NW	Closed Status Spill (Unk/Other Cause)
97	MANHOLE #TM 633	NEWELL ST & DRIGGS AV	1429 feet to the N	Closed Status Spill (Unk/Other Cause)
98	CORNOR OF CONSELYEA	MANHATTEN AVE	1450 feet to the S	Closed Status Spill (Unk/Other Cause)
99	MANHOLE #4900	NORTH 11TH ST/UNION AVE	1477 feet to the WSW	Closed Status Spill (Unk/Other Cause)
100	GAS STATION	116 CONSELYEA STREET	1506 feet to the S	Closed Status Spill (Unk/Other Cause)
101	BOGUMIL HOME	101 ECKFORD STREET	1555 feet to the NNW	Closed Status Spill (Unk/Other Cause)
38	UNKNOWN GAS STATION	2 ROEBLING ST	1566 feet to the W	Closed Status Tank Failure
102	GAS STATION	2 ROEBLING ST	1566 feet to the W	Closed Status Spill (Unk/Other Cause)
103	SCHOOL	320 MANHATTAN AVE.	1570 feet to the SSE	Closed Status Spill (Unk/Other Cause)
203		526 UNION AVE	1586 feet to the SW	Closed Status Spill (Misc. Spill Cause)
104	MANHOLE #4837	ROEBLING AVE/NORTH 11TH	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
105	CONSTRUCTION SITE	ROEBLING STR/NORTH 11TH	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
106	CONSTRUCTION SITE	NORTH 11TH ST & ROEBLING	1596 feet to the W	Closed Status Spill (Unk/Other Cause)
204	APARTMENT BLDG	677 METROPOLITAN AV	1609 feet to the S	Closed Status Spill (Misc. Spill Cause)
107	MANHOLE 4925	WITHERS ST/UNION AV	1615 feet to the WSW	Closed Status Spill (Unk/Other Cause)
108	MANHOLE 53375	WITHERS ST/ UNION AVE	1615 feet to the WSW	Closed Status Spill (Unk/Other Cause)
109	GAS STATION	25 SKILLMAN AVE	1652 feet to the SW	Closed Status Spill (Unk/Other Cause)
110	25 SKILLMAN AVE	25 SKILLMAN AVE	1652 feet to the SW	Closed Status Spill (Unk/Other Cause)
111	BETWEN NORTH 10 /11TH	ROEBLING	1685 feet to the W	Closed Status Spill (Unk/Other Cause)
112	30 SKILLMAN AVE	30 SKILLMAN AVE	1692 feet to the SSW	Closed Status Spill (Unk/Other Cause)
113	MANUFACTURING FACILITY	78 KINGSLAND AVE	1724 feet to the E	Closed Status Spill (Unk/Other Cause)
114	SERVICE BOX #12699	107 KINGSLAND AVE	1730 feet to the ENE	Closed Status Spill (Unk/Other Cause)
115	MANHOLE 4930	UNION AVE/JACKSON ST	1737 feet to the SW	Closed Status Spill (Unk/Other Cause)
116	MCGINNESS AVE BETWEEN	NASSAU AVE DRIBBS AVE	1739 feet to the N	Closed Status Spill (Unk/Other Cause)
117	APPEARS THAT 20 GAL COOKING OIL	LEONARD ST & METROPOLITAN AVE	1747 feet to the S	Closed Status Spill (Unk/Other Cause)
118	WAREHOUSE	261 NORTH 9TH STREET	1767 feet to the WSW	Closed Status Spill (Unk/Other Cause)
119	MH 4927	HAVERMYER ST/N 9TH ST	1785 feet to the WSW	Closed Status Spill (Unk/Other Cause)
120	387 HUMBOLDT ST/BKLYN	387 HUMBOLDT STREET	1785 feet to the SE	Closed Status Spill (Unk/Other Cause)
121	RESIDENCE	41 NEWELL ST	1788 feet to the N	Closed Status Spill (Unk/Other Cause)
26	N 11TH STREET SIDEWALK	204−214 NORTH 11TH ST	1810 feet to the W	Active Haz Spill (Unknown/Other Cause)
122	CONSTRUCTION SITE	ROEBLING STREET	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
123	EXCAVATION	214 NORTH 11TH STREET	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
124	EXCAVATION SITE	204−214 NORTH 11TH ST	1810 feet to the W	Closed Status Spill (Unk/Other Cause)
125	AMONIUM HYDROCHLORIDE SPI	215 N. 10TH ST	1814 feet to the W	Closed Status Spill (Unk/Other Cause)
126	606 MANHATTAN AVENUE	606 MANHATTAN AVENUE	1822 feet to the NNW	Closed Status Spill (Unk/Other Cause)
205	TM 640	HERBERT ST & KINGSLAND AVE	1822 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
27	MOBIL	51 KINGSLAND AVE	1825 feet to the ESE	Active Haz Spill (Unknown/Other Cause)
127	51 KINGLAND AVENUE	51 KINKGLAND AVE	1825 feet to the ESE	Closed Status Spill (Unk/Other Cause)
128	VS 5950	E SIDE KINGSLAND AVE/NEAR FROST ST	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
129	VS5950 − VAULT	KINGSLAND AV/FROST ST	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
130	KINGSLAND & FROST AVENUE −MTBE	KINGSLAND AVENUE	1838 feet to the E	Closed Status Spill (Unk/Other Cause)
131	625 HUMBOLDT STREET	625 HUMBOLDT STREET	1871 feet to the NNE	Closed Status Spill (Unk/Other Cause)
132	IN STREET	MEEKER AVE/ UNION AVE	1875 feet to the SW	Closed Status Spill (Unk/Other Cause)
133	104 KINGSLAND AVE/BKLYN	104 KINGSLAND AVENUE	1875 feet to the ENE	Closed Status Spill (Unk/Other Cause)
134	COMMERICAL VACANT LOT	235−239 N 9TH STREET	1882 feet to the WSW	Closed Status Spill (Unk/Other Cause)

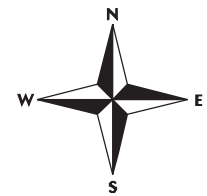
135	44 NEWELL STREET	44 NEWELL STREET	1890 feet to the N	Closed Status Spill (Unk/Other Cause)
45	CLOSED−LACKOF RECENT INFO	275 NORTH 8TH ST.	1899 feet to the SW	Closed Status Tank Test Failure
136	APARTMENT BLDG	243 JACKSON STREET	1901 feet to the ESE	Closed Status Spill (Unk/Other Cause)
137	BMT L LINE	LORIMER/METROPOLITIAN	1903 feet to the SSW	Closed Status Spill (Unk/Other Cause)
138	METROPOLITIAN AV AND	LORIMER ST	1903 feet to the SSW	Closed Status Spill (Unk/Other Cause)
39	RESIDENCE	243 JACKSON STREET	1927 feet to the ESE	Closed Status Tank Failure
28	COMMERCIAL PROPERTY	454 DRIGGS AVE	1930 feet to the W	Active Haz Spill (Unknown/Other Cause)
139	DOUBLE GREEN	122 KINGSLAND AVENUE	1932 feet to the ENE	Closed Status Spill (Unk/Other Cause)
40	ADAMS DELI	112 NASSAU AVE	1951 feet to the NNW	Closed Status Tank Failure
140	DELI	112 NASSAU AVE	1951 feet to the NNW	Closed Status Spill (Unk/Other Cause)
141	COMMERCIAL PROPERTY	200 NORTH 11TH STREET	1951 feet to the W	Closed Status Spill (Unk/Other Cause)
142	SANITATION COMPANY	244 SKILLMAN AVE	1986 feet to the ESE	Closed Status Spill (Unk/Other Cause)
143	18 DIVISION PL/BKLYN	18 DIVISION PLACE	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
144	GOODMAN BROT STEEL DRUMS	18 DIVISION ST	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
145	GOODMAN BROT STEEL DRUMS	18 DIVISION PL	1987 feet to the ENE	Closed Status Spill (Unk/Other Cause)
146	MANHOLE 16282	IFO 288 NO 8TH ST	2011 feet to the SW	Closed Status Spill (Unk/Other Cause)
147	CON ED VAULT #4233	JACKSON/KINGSLEY	2021 feet to the ESE	Closed Status Spill (Unk/Other Cause)
148	NYS DOT − BQE	KINGSLAND & MEEKER AVES	2022 feet to the NE	Closed Status Spill (Unk/Other Cause)
149	MANHOLE 4939	564 METROPOLATAIN AVE	2061 feet to the SSW	Closed Status Spill (Unk/Other Cause)
150	MONITOR ST & DRIGGS AVE	MONITOR ST & DRIGGS AVE	2062 feet to the NE	Closed Status Spill (Unk/Other Cause)
46	AUTOMOTIVE HIGH SCHOOL − TTF	50 BEDFORD AVENUE	2065 feet to the NW	Closed Status Tank Test Failure
47	PS 610	50 BEDFORD AVENUE	2065 feet to the NW	Closed Status Tank Test Failure
151	MANHOLE 4376 AND BEDFORD	AVE AND LOROMIER AVE	2069 feet to the NW	Closed Status Spill (Unk/Other Cause)
152	MH 4374	NASSAU AV/LAURAMAR AV	2069 feet to the NW	Closed Status Spill (Unk/Other Cause)
29	PROPERTY	55 ROEBLING ST	2084 feet to the WSW	Active Haz Spill (Unknown/Other Cause)
153	AUNT HEDDY‘S BAKERY	234 NORTH 9TH STREET	2092 feet to the WSW	Closed Status Spill (Unk/Other Cause)
30	WOLF PETROLEUM CORP	2 BUSHWICK AVENUE	2099 feet to the SE	Active Haz Spill (Unknown/Other Cause)
48	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE	Closed Status Tank Test Failure
154	SHELL	2 BUSHWICK AVENUE	2099 feet to the SE	Closed Status Spill (Unk/Other Cause)
155	213 NORTH 9TH STREET	213−217 NORTH 9TH STREET	2102 feet to the W	Closed Status Spill (Unk/Other Cause)
156	SERVICE VS5743	BEADEL ST/DEBEVOISE ST	2107 feet to the ENE	Closed Status Spill (Unk/Other Cause)
35	CONSTRUCTION SITE	95 BEDFORD AVE	2130 feet to the W	Active Haz Spill (Misc. Spill Cause)
157	105 BEDFORD AV	105 BEDFORD AVENUE	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
158	NEW APT BLDG/FORMER PAINT FACTORY	95 BEDFORD AVENUE	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
159	EIGHT GAL XFMR LEAK IN MANHOLE #1706	155 NORTH 11 ST (AT BEDFORD AVE).	2130 feet to the W	Closed Status Spill (Unk/Other Cause)
160	MH4940	LORIMER ST/DEVOE ST	2150 feet to the SSW	Closed Status Spill (Unk/Other Cause)
31	99 CENT STORE (DOLLAR UP STORE)	640 MANHATTAN AVE	2164 feet to the NNW	Active Haz Spill (Unknown/Other Cause)
161	MANHOLE #4382	640 MANHATTAN AVE	2164 feet to the NNW	Closed Status Spill (Unk/Other Cause)
206	522 METROPOLITAN AVE	522 METROPOLITAN AVE	2199 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
162	HYDRO TECH	170 NORTH 11TH STREET	2208 feet to the W	Closed Status Spill (Unk/Other Cause)
32	169−175 NORTH 10TH STREET	169−175 NORTH 10TH STREET	2222 feet to the W	Active Haz Spill (Unknown/Other Cause)
163	W OF ROBLING AV	N 8TH ST	2226 feet to the WSW	Closed Status Spill (Unk/Other Cause)
33	HESS−MERIT STATION 32522	810 METROPOLITAN AVENUE	2241 feet to the SE	Active Haz Spill (Unknown/Other Cause)
49	810 METROPOLITAN AVE	810 METROPOLITAN AVENUE	2241 feet to the SE	Closed Status Tank Test Failure
207	810 METROPOLITAN AV/MERIT	810 METROPOLITAN AVENUE	2241 feet to the SE	Closed Status Spill (Misc. Spill Cause)
164	MAN HOLE #4934	UNION AVE / KEAP ST	2266 feet to the SSW	Closed Status Spill (Unk/Other Cause)
165	MH 225	AINSLIE ST/LEONARD ST	2269 feet to the S	Closed Status Spill (Unk/Other Cause)
166	VACANT LOT	165 NORTH 10TH ST	2280 feet to the W	Closed Status Spill (Unk/Other Cause)
3	BQE/ANSBACHER COLOR & DYE FACTORY	MEEKER AVENUE	2292 feet to the SW	NYSDEC Inactive Haz Waste Disposal Site
167	IFO HOUSE	143 AINSLIE ST	2293 feet to the S	Closed Status Spill (Unk/Other Cause)
208	NATIONAL DRUM	35 BEADEL STREET	2302 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
168	STAR SOAP AND CANDLE CO.	304 NORTH 7TH STREET	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
169	STAR SOAP AND CANDLE CO.	304 NORTH 7TH ST	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)

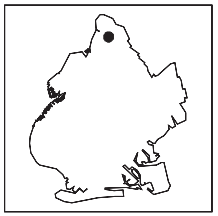
170	310 N 7TH ST	310 N 7TH ST	2303 feet to the SW	Closed Status Spill (Unk/Other Cause)
50	BUSINESS	32 BEADEL STREET	2316 feet to the ENE	Closed Status Tank Test Failure
51	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
52	COOPER PARK HOUSING −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
53	COOPER PARK −NYCHA	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
54	COOPER PARK	295 JACKSON ST	2357 feet to the E	Closed Status Tank Test Failure
171	VACANT/ COMMERCIAL	506 DRIGGS AVE	2367 feet to the W	Closed Status Spill (Unk/Other Cause)
172	19 NASSAU AVE./CORNER OF	19 NASSAU AVE	2392 feet to the NW	Closed Status Spill (Unk/Other Cause)
173	VAULT TM613	HUMBOLDT ST. AND NASSAU A	2420 feet to the N	Closed Status Spill (Unk/Other Cause)
174	CON EDISON MANHOLE 12371	53 DIVISON PLACE	2435 feet to the ENE	Closed Status Spill (Unk/Other Cause)
175	ONE QT OIL FOUND IN MANHOLE #2694	DEBEVOISE & JACKSON STREETS	2439 feet to the E	Closed Status Spill (Unk/Other Cause)
176	SERVICE BOX 12690	206 KINGSLAND AVE	2448 feet to the NE	Closed Status Spill (Unk/Other Cause)
177	MANHOLE 4935	MANHOLE 4935	2463 feet to the SSW	Closed Status Spill (Unk/Other Cause)
178	TRAFFIC ACCIDENT	MEEKER AVE/METROPOLITAN A	2471 feet to the SW	Closed Status Spill (Unk/Other Cause)
179	SUBWAY TRACKS−NYCT	257 NORTH 6TH ST	2471 feet to the WSW	Closed Status Spill (Unk/Other Cause)
180	CAMPBELL RESIDENCE	120 BEDFORD AVE	2473 feet to the W	Closed Status Spill (Unk/Other Cause)
181	LOT NEXT TO 583 DRIDGES	CRN DRIGGES AVE & 8TH	2481 feet to the WSW	Closed Status Spill (Unk/Other Cause)
182	MANHATTAN AVE & POWERS ST	MANHATTAN AVE / POWERS ST	2496 feet to the S	Closed Status Spill (Unk/Other Cause)
209		505 MORGAN AVE	2497 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
183	MANHOLE 63577	NASSAU AVE/RUSSELL ST	2517 feet to the NNE	Closed Status Spill (Unk/Other Cause)
184	MANHOLE #64589	RUSSELL & NASSAU ST	2517 feet to the NNE	Closed Status Spill (Unk/Other Cause)
41	UNICO GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW	Closed Status Tank Failure
185	GAS STATION	445 METROPOLITAN AVE	2523 feet to the SW	Closed Status Spill (Unk/Other Cause)
186	680 MANHATTAN AVE	680 MANHATTAN AVE	2525 feet to the NNW	Closed Status Spill (Unk/Other Cause)
187	433 UNION AVE	433 UNION AVE	2527 feet to the SSW	Closed Status Spill (Unk/Other Cause)
55	F N W MECHANICAL	139 NORTH 10TH STREET	2554 feet to the W	Closed Status Tank Test Failure
188	MANHOLE #56358	DIVISION PL/MORGAN AVE	2570 feet to the ENE	Closed Status Spill (Unk/Other Cause)
189	MH #16092	MORGAN AVE & DIVISION PL	2570 feet to the ENE	Closed Status Spill (Unk/Other Cause)
190		IFO 100 MAGUNIS BLVD	2572 feet to the NNW	Closed Status Spill (Unk/Other Cause)
191	535 MORGAN AVE	535 MORGAN AVE	2573 feet to the ENE	Closed Status Spill (Unk/Other Cause)
192	RESIDENCE	50 BUSHWICK AVE	2598 feet to the SE	Closed Status Spill (Unk/Other Cause)
193		BEDFORD AVE/N 9TH ST	2619 feet to the W	Closed Status Spill (Unk/Other Cause)
194	125 NORTH 10TH ST	125 NORTH 10TH ST	2621 feet to the W	Closed Status Spill (Unk/Other Cause)
195	GAS STATION	417 UNION AVE	2633 feet to the SSW	Closed Status Spill (Unk/Other Cause)
196	S & S PRINTING	488 MORGAN AVE	2639 feet to the ENE	Closed Status Spill (Unk/Other Cause)
210		ANTHONY ST/MORGAN AVE	2639 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
4	K − WYTHE AVE. STATION	WYTHE AVE., BERRY ST., N 12TH & 13TH ST	2834 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
5	FORMER KLINK COSMO CLEANERS	364 RICHARDSON STREET	2857 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
6	ACME STEEL/METAL WORKS	95 LOMBARDY STREET	3157 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
7	FORMER SPIC AND SPAN CLEANERS AND DYERS, INC.	315 KINGSLAND AVENUE	3347 feet to the NNE	NYSDEC Inactive Haz Waste Disposal Site
8	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	3567 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
9	ACME STEEL/BRASS FOUNDRY	72 ANTHONY STREET	3641 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
10	BROOKLYN NORTH 1 GARAGE	50 KENT AVENUE	3858 feet to the WNW	NYSDEC Inactive Haz Waste Registry Qual.
11	K − EQUITY WORKS	MASPETH AND VANDERVORT AVES.	3888 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
12	MOBIL OIL BROOKLYN TERMINAL	300 N. HENRY ST.	3966 feet to the NNE	NYSDEC Inactive Haz Waste Disposal Site
13	K − WILLIAMSBURG WORKS	KENT AVE & 12TH STREET	4095 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
14	CARBONA PRODUCTS	330 CALYER STREET	4147 feet to the N	NYSDEC Inactive Haz Waste Registry Qual.
15	KENT TERMINAL	KENT AVE. BETWEEN N.5TH & N.11TH ST.	4336 feet to the WNW	NYSDEC Inactive Haz Waste Registry Qual.
1	NEWTOWN CREEK	SOUTH END OF IVY HILL ROAD	4730 feet to the ESE	National Priority List(NPL) Site
16	NEWTOWN CREEK	NEWTOWN CREEK (BETWEEN BROOKLYN AND QUEENS)	4730 feet to the ESE	NYSDEC Inactive Haz Waste Disposal Site
17	K − GREENPOINT MGP − ENERGY CENTER	287 MASPETH AVENUE	4763 feet to the ENE	NYSDEC Inactive Haz Waste Disposal Site
18	B.C.F. OIL REFINING, INC.	360−362 MASPETH AVENUE, SOUTHSIDE	4895 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
19	K − SCHOLES ST. STATION	SCHOLES ST 7 BOGART STS, MESSEROLE & MORGAN AVE	5007 feet to the SE	NYSDEC Inactive Haz Waste Disposal Site

Toxics Targeting
1 Mile Radius Map

415 Manhattan Avenue

Brooklyn, NY 11222





Kings County

National Priority List (NPL)

Inactive Hazardous Waste Disposal Registry Site

Inact. Haz Waste Disp. Registry Qualifying

RCRA Corrective Action Facility

Site Location

Waterbody

County Border

Railroad Tracks

1 Mile Radius

1/2 Mile Radius

1/4 Mile Radius

1/8 Mile Radius

415 Manhattan Avenue

1 0 1/8 1/4 1/2 1

Distance in Miles

Toxics Targeting
1/2 Mile Radius Map

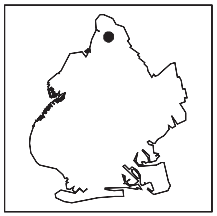
415 Manhattan Avenue

Brooklyn, NY 11222

N

W E

S



Kings County

- Delisted NPL Site
- CERCLIS Superfund Non-NFRAP Site
- CERCLIS Superfund NFRAP Site
- Hazardous Waste Treater, Storer, Disposer
- Hazardous Substance Waste Disposal Site
- Solid Waste Facility
- Brownfields Site
- Hazardous Material Spill
- MTBE Gasoline Additive Spill
- Site Location
- Waterbody
- County Border
- Railroad Tracks
- 1 Mile Radius
- 1/2 Mile Radius
- 1/4 Mile Radius
- 1/8 Mile Radius

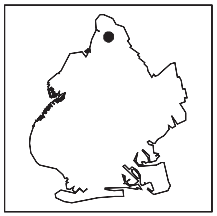
1/2 0 1/16 1/8 1/4 1/2

Distance in Miles

Toxics Targeting
1/8 Mile Radius Map

415 Manhattan Avenue

Brooklyn, NY 11222



Kings County

- Major Oil Storage Facility
- Chemical Storage Facility
- Toxic Release
- Wastewater Discharge
- Hazardous Waste Generator, Transp.
- Enforcement Docket Facility
- Air Release
- Env Qual Review E Designation
- Petroleum Bulk Storage Facility
- Historic Utility Site
- Site Location
- Waterbody
- County Border
- Railroad Tracks
- 1/8 Mile Radius
- 250 Foot Radius

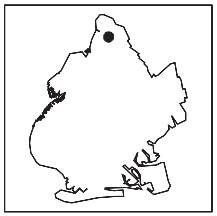
1/8 | 0 | 1/16 | 1/8

Distance in Miles

Toxics Targeting
1/8 Mile Closeup Map

415 Manhattan Avenue

Brooklyn, NY 11222



Kings County

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- RCRA Corrective Action Facility *
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- Historic Utility Site ****
- Enforcement Docket Facility ****
- Air Release ****
- Env Qual Review E Designation *****
- Remediation Site Borders
- Site Location
- Waterbody
- County Border
- Railroad Tracks
- 1/8 Mile Radius
- 250 Foot Radius

1/8 0 1/16 1/8

Distance in Miles

* 1 Mile Search Radius

** 1/2 Mile Search Radius

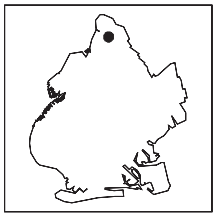
**** 1/8 Mile Search Radius

***** Onsite Search (250 Ft)

Toxics Targeting
Tax Parcel Map

415 Manhattan Avenue

Brooklyn, NY 11222



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- County Border
- Railroad Tracks

Tax Parcel Information Table

415 Manhattan Avenue
Brooklyn, NY 11222

Subject Parcel or Parcels

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
3−02723−0030	415 MANHATTAN AVENUE	415 MANHATTAN AVE, CO	M1−1(R6)	B9	1	1920	9331	2500

Other Parcels Found On The Tax Parcel Map

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
3−02712−0001	438 LEONARD STREET	JOINTLY OWNED PLAYGRO	R6(M1−1)	W1	1	1966	6300000	131700
3−02719−0001	120 NEWTON STREET	120 NEWTON STREET LLC	R6(M1−1)	E9	1	1920	64800	5993
3−02723−0001	87 RICHARDSON STREET	ISRAEL M. DOLGIN ASSO	M1−1(R6)	F4	1	1930	427950	10000
3−02723−0007	100 BAYARD STREET	WELNER, DAVID C	M1−1(R6)	E3	1	1986	268650	14422
3−02723−0014	106 BAYARD STREET	CHANA LLC	M1−1(R6)	E3	1	1969	318600	15440
3−02723−0021	423 MANHATTAN AVENUE	CHANA LLC	M1−1(R6)	E3	2	1950	96390	5376
3−02723−0027	421 MANHATTAN AVENUE	CHANA LLC	M1−1(R6)	E3	1	1986	40995	2500
3−02723−0028	419 MANHATTAN AVENUE	ANDREW ARTISTIC DISTR	M1−1(R6)	F4	1	1940	42390	2500
3−02723−0029	417 MANHATTAN AVENUE	MANHATTAN AVE. GROUP,	M1−1(R6)	G2	1	1930	40365	2500
3−02723−0031	413 MANHATTAN AVENUE	ABAT REALTY, INC	M1−1(R6)	E4	1	1950	40005	2500
3−02723−0032	411 MANHATTAN AVENUE	KAY AND KAY REALTY LL	M1−1(R6)	C2	1	1928	39941	2500
3−02723−0033	391 MEEKER AVENUE	KEVINM. SCARLON	M1−1(R6)	G2	1	1930	36090	2958
3−02723−0036	113 RICHARDSON STREET	RONALD MARIANI	M1−1(R6)	E9	1	1910	32760	2500
3−02723−0037	111 RICHARDSON STREET	ISMAIL LIKA	M1−1(R6)	C2	1	1928	31328	2500
3−02723−0038	101 RICHARDSON STREET	ISRAEL M. DOLGIN ASSO	M1−1(R6)	F4	3	1930	148950	15000
3−02724−0001	411 MEEKER AVENUE	ANTHONY M TETRO	M1−1(R6)	S9	2	1920	39366	3715
3−02724−0007	430 MANHATTAN AVENUE	KEVIN SCANLON	M1−1(R6)	G2	1	1920	38790	2350
3−02724−0010	130 BAYARD STREET	BAYARD ASSOCIATES LLC	M1−1(R6)	E9	1	1987	108450	5500
3−02724−0012	134 BAYARD STREET	MARTINE KACZYNSKI	M1−1(R6)	E9	1	1920	34470	1950
3−02724−0013	136 BAYARD STREET	R HILBURGER	M1−1(R6)	B9	1	1899	9072	1950
3−02724−0014	138 BAYARD STREET	LOSIM REALTY CORP	M1−1(R6)	E3	1	1920	38385	1950
3−02724−0015	140 BAYARD STREET	ZIMMERMAN, DANUTA	M1−1(R6)	B9	1	1899	11290	1950
3−02724−0016	142 BAYARD STREET	MALGORZATA TOKARSKI	M1−1(R6)	B9	1	1899	8500	1950
3−02724−0017	144 BAYARD STREET	CHATENARINE JOSEPH	M1−1(R6)	B9	1	1899	9537	1950
3−02724−0018	146 BAYARD STREET	F CLARK	M1−1(R6)	F4	1	1969	70650	8800
3−02724−0025	447 MEEKER AVENUE	CAVALLO ANGELO	M1−1(R6)	C0	1	1920	12026	2533
3−02724−0027	445 MEEKER AVENUE	ANTHONY PASTINO	M1−1(R6)	C0	1	1920	11197	2500
3−02724−0028	441 MEEKER AVENUE	SASSANO, ANTONETTE	M1−1(R6)	C0	1	1920	11197	2500
3−02724−0029	439 MEEKER AVENUE	P GIGLIO	M1−1(R6)	C2	2	1928	46619	2500
3−02724−0030	435 MEEKER AVENUE	ANITA VOLPE SEIDMAN	M1−1(R6)	B9	1	1920	9866	2500
3−02724−0031	433 MEEKER AVENUE	ANITA VOLPE SEIDMAN	M1−1(R6)	E9	1	1910	41850	5000
3−02724−0033	MEEKER AVENUE	ANITA VOLPE SEIDMAN	M1−1(R6)	V1	0		3614	590
3−02724−0034	419 MEEKER AVENUE	STACEY SCANLON	M1−1(R6)	E9	3	1900	50400	4995
3−02724−0037	417 MEEKER AVENUE	54 18 43RD REALTY COR	M1−1(R6)	G7	1	2002	85725	3120
3−02733−0006	390 LEONARD STREET	JULIA ZOLOTOVA	M1−1(R6)	B2	1	1899	6652	2500
3−02733−0007	392 LEONARD STREET	SHTAERMAN DIMITRI	M1−1(R6)	G7	1	1940	64350	5000
3−02733−0010	100 RICHARDSON STREET	ROMENSKY WALTER	M1−1(R6)	Z9	0		108900	2823
3−02733−0025	MANHATTAN AVENUE	SAM MAYO*MARY MAYO	C8−1	V2	0		864	560

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
3−02734−0003	404 MANHATTAN AVENUE	NICOLA ROZZA	C8−1	B9	2	1899	12986	2500
3−02734−0004	406 MANHATTAN AVENUE	LACCONE, PATRICK	C8−1	F9	1	1930	38205	2300
3−02734−0005	408 MANHATTAN AVENUE	PATRICK & ROSE LACCON	C8−1	F4	1	1930	26820	1700
3−02734−0007	402 MEEKER AVENUE	RUSSIN ROBERT MARGARE	C8−1	E3	1	1970	166950	7960
3−02734−0011	136 RICHARDSON STREET	TROCCHIA ANTONIO	C8−1	G2	1	1950	53100	3395
3−02734−0035	137 FROST STREET	ANDREAS BALALIS	C8−1	E9	1	1995	160200	7700
3−02734−0038	FROST STREET	FRISCEM M	C8−1	V1	0		2376	370

Section Two: Toxic Site Profiles

The heading of each *Toxic Site Profile* refers to the site's map location and details:

- The facility name, address, city, state, and zip code.
- Any changes that were made to a site's address in order to map its location.
- The site mapping method that was used (see ***How Sites are Located***, at the end of this section for more information).

Toxic Site Profiles summarize information provided by site owners or operators and government agencies regarding various toxic chemical activities reported at each site, such as:

- Whether chemicals were stored, produced, transported, discharged or disposed of.
- The name of chemicals and their Chemical Abstract Series (CAS) numbers.
- The amount of chemicals and the units (gallons/pounds) the chemical was measured in.
- Whether the site or storage tanks at the site are currently active or inactive.
- Special codes used by government agencies to regulate hazardous waste activities at some sites, or a complete description of the codes follows the profiles section.

For selected individual chemicals reported at various toxic sites, some potential health effect summary information appears below the site profile. Each potential health effect summary identifies chemicals by name and by Chemical Abstract Series (CAS) Number. An "x" under each potential health effect heading indicates positive toxicity testing results reported by the National Institute of Occupational Safety and Health's Registry of Toxic Effects of Chemical Substances (RTECS). Some chemicals (mostly appearing in profiles of Hazardous Waste facilities), are reported as mixtures, and RTECS health effect information is only available for individual chemicals. In addition, RTECS only provides information on approximately 100,000 common chemicals. Consequently, the absence of potential health effect summary information for a particular chemical identified in a Toxic Site Profile does not necessarily mean that the chemical does not pose potential health effects.

The Maximum Contaminant Level (MCL) in drinking water allowed for selected chemicals is also noted. In most cases, the only applicable MCL has been set by the New York State Department of Health (NYSDOH). Where NYSDOH has not set an MCL, the federal standard, if one exists, is listed and is marked by an asterisk.

Presented below are column headings that describe the health effect definitions used in RTECS and applicable New York State and federal drinking water standards. Reference sources for information presented in this section are also provided.

ACUTE TOX: **Acute Toxicity**: Short-term exposure to this chemical can cause lethal and non-lethal toxicity effects not included in the following four categories.

TUMOR TOX: **Tumorigenic Toxicity**: The chemical can cause an increase in the incidence of tumors.

MUTAG TOX: **Mutagenic Toxicity**: The chemical can cause genetic alterations that are passed from one generation to the next.

REPRO TOX: **Reproductive Toxicity**: May signify one of the following effects: maternal effects, paternal effects, effects on fertility, effects on the embryo or fetus, specific developmental abnormalities, tumorigenic effects, or effects on the newborn (only positive reproductive effects data for mammalian species are referenced).

IRRIT TOX: **Primary Irritant**: The chemical can cause eye or skin irritation.

MCL: **Drinking Water Standard - Maximum Contaminant Level** (MCL) listed under Drinking Water Supplies, 10 NYCRR Part 5, Subparts 1.51(f),(g), and (h) for NYDOH MCL's and under the Safe Drinking Water Act, 40 CFR 141, Subparts B and G, (* indicates value for total trihalomethanes) for federal MCL's.

Reference Source for Toxicity Information: Registry of Toxic Effects of Chemical Substances (RTECS), NIOSH (on-line database); For further information, contact: NIOSH, 4676 Columbia Parkway, Cincinnati, OH, 45226, 800/35-NIOSH.

Reference Source for Drinking Water Standards: New York State Department of Health, Bureau of Toxic Substances Assessment, 2 University Place, Room 240, Albany, NY 12203, 518/458-6373.

U.S. Environmental Protection Agency, Office of Drinking Water, 401 M St SW, Mailstop WH-556, Washington, DC, 20460, 202/260-5700.

Inactive Hazardous Waste Disposal Site Classifications:

1 -- Causing or presenting an imminent danger of causing irreversible or irreparable damage to the public health or the environment -- immediate action required;
2 -- Significant threat to the public health or environment -- action required;
3 -- Does not Present a significant threat to the environment or public health -- action may be deferred;
4 -- Site properly closed --requires continued management;
5 -- Site properly closed, no evidence of present or potential adverse impact -- no further action required;
2a -- This temporary classification has been assigned to sites where there is inadequate data to assign them to the five classifications specified by law;
A -- Work underway and not yet complete;
P -- Potential Site;
$D_{1, 2, 3}$ -- Delisted Site (1: hazardous waste not found; 2: remediated; 3: consolidated site or site incorrectly listed);
C -- Remediation Complete (formerly D2).

NATIONAL PRIORITIES LIST (NPL) SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS
NO DELISTED NPL SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 1 **NEWTOWN CREEK** **EPA Facility Id: NYN000206282**
SOUTH END OF IVY HILL ROAD BROOKLYN, QUEENS, NY 11222 TT−Id: 100A−0006−584

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE − LARGE SITE
Approximate distance from property: 4730 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code:

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Newtown Creek
New York
EPA ID#: NYN000206282
EPA REGION 2
Congressional District(s): 12,14
Queens, Kings Counties

NPL LISTING HISTORY
Proposed Date: 9/23/2009
Final Date: 9/29/2010

Site Description
Newtown Creek is a 3.8−mile long tidal water body located in the City of New York, having five principal tributaries (Dutch Creek, Whale Creek, Maspeth Creek, East Branch and English Kills) and is itself a tributary of the East River. The creek is a part of the New York ˘ New Jersey Harbor Estuary that forms the north−south border between the New York City boroughs of Brooklyn and Queens. In the mid 1800s, the area adjacent to the 3.8 mile Newtown Creek was one of the busiest hubs of industrial activity in New York City. More than 50 refineries were located along its banks, including oil refineries, petrochemical plants, fertilizer and glue factories, sawmills, and lumber and coal yards. The creek was crowded with commercial vessels, including large boats bringing in raw materials and fuel and taking out oil, chemicals and metals. In addition to the industrial pollution that resulted from all of this activity, the city began dumping raw sewage directly into the water in 1856. During World War II, the creek was one of the busiest ports in the nation. Currently, factories and facilities still operate along the creek. Various contaminated sites along the creek have contributed to the contamination at Newtown Creek. Many businesses along Newtown Creek still operate without city−provided sewer services.

Water flow into Newtown Creek currently consists mostly of storm water runoff, combined sewer overflows (CSO), and discharges from permitted and unpermitted pollution sources. The creek rises and falls with the tide, but it is mostly

stagnant. Newtown Creek is a navigable waterway under the jurisdiction of the Coast Guard, and the channel must be maintained for shipping purposes.

Various sediment and surface water samples have been taken along the creek. Hazardous substances, including pesticides, metals, PCBs, and volatile organic compounds (VOCs), have been detected at the creek. The New York City Department of Environmental Protection has sampled sediment and surface water at a number of locations in creek sediments since 1980. Investigations and remediation under state or federal programs have also been conducted at properties adjacent to the creek to abate continued discharges of pollution to the creek from those facilities.

The majority of the upland area bordering Newtown Creek is within one of three Industrial Business Zones of the City of New York, and the majority of Newtown Creek has also been designated by the City of New York as one of the Citys six Significant Maritime and Industrial Areas. However, the creek is also currently used occasionally for recreational purposes by kayakers and there is fishing access along the banks.

Threat and Contaminants
EPA conducted an Expanded Site Investigation (ESI) of Newtown Creek in 2009 as part of the Hazard Ranking System scoring process for NPL listing under Superfund. Based on the ESI, which was focused on Newtown Creek itself and not its tributaries, EPA concluded that metals, volatile organic compounds, and semi−volatile organic compounds (including polycyclic aromatic hydrocarbons and polychlorinated biphenyls) were present in Creek sediments at elevated concentrations. The variety and distribution of the detected contaminants suggests that they originated from a variety of sources. Previous environmental investigations of Newtown Creek, or specific portions of the Creek, also disclosed that sediments in Newtown Creek are contaminated by a wide variety of hazardous substances. Environmental investigations of upland parcels adjacent to or nearby the Creek have disclosed contamination of those parcels by hazardous substances similar to hazardous substances found in sediments in Newtown Creek.

Cleanup Approach
Following the ESI in 2009, Newtown Creek was proposed by EPA for listing on the National Priorities List under Superfund on September 23, 2009. Field work for the Remedial Investigation/Feasibility Study (RI/FS) in the creek began in November 2011. The RI/FS process will characterize environmental conditions at Newtown Creek and connecting tributaries, determine the nature of the waste, assess risk to human health and the environment, and evaluate potential cleanup alternatives.

At present, EPA has identified six Potentially Responsible Parties (PRPs) for the Newtown Creek site: BP America, Inc., The Brooklyn Union Gas Company d/b/a National Grid NY, ExxonMobil Oil Corporation, Phelps Dodge Refining Corporation, Texaco, Inc. −known as the Newtown Creek Group and the City of New York. These parties are believed by EPA to have contributed hazardous substances into Newtown Creek through operations conducted along the creek. EPA has completed the negotiations with these parties to perform the RI/FS under EPA oversight. The Administrative Order on Consent was signed on July 7, 2011. EPA anticipates that additional PRPs will be identified and that they will be given the opportunity of joining as respondents under the Order. Under Superfund, responsible parties are liable for the cost of investigating and remediating sites where hazardous substances have been released or have come to be located.

EPA has approved several documents submitted by Anchor QEA, the environmental consulting firm hired by the PRPs. These documents include the Quality Assurance Project Plan (QAPP), the Field Sampling and Analysis Plan (FSAP), the Data Collection Plan (DCP), and the Data Management Plan (DMP) and are found on the regional EPA web page for Newtown Creek. As other documents are approved, they will be added to the web page.

EPA held two public information sessions in Brooklyn, N.Y. at St. Nicks Alliance on Kingsland Ave., and in Queens, N.Y. at LaGuardia Community College in Long Island City to answer questions from the public and discussed the timeline of the Remedial Investigation/Feasibility Study (RI/FS) process.

A Community Advisory Group (CAG) was ratified in May 2012.

Cleanup Progress
Newtown Creek was proposed for NPL site listing on September 23, 2009 and finalized on the NPL on September 29, 2010. EPA has completed been negotiating with the Newtown Creek Group and the City of New York on the implementation of the RI/FS for the Site. The PRPs are currently conducting field work for a multi-year phased remedial investigation. Field work began in November 2011 and continues on through the summer of 2012. Field activities included: the shoreline assessment, creek-bed surveys (bathymetric, magnetic, side-scan sonar), fish community surveys, sediment sampling (sub-surface coring and surface grab samples) and surface water sampling. All Phase 1 sampling efforts are expected to finish in the fall of 2012. The data from these sampling events will be reviewed and used to guide the development of the next phase of sampling.

Site Repositories
EPA Region 2 Superfund Records Center, 290 Broadway, 18th Floor, New York, NY 10007-1866
Greenpoint Public Library, 107 Norman Ave. at Leonard St., Brooklyn, NY; 718-349-8504
Long Island City Public Library, 37-44 21st Street Queens, NY; 718-752-3700

August 1, 2012

INACTIVE HAZ WASTE DISPOSAL REGISTRY OR REGISTRY−QUALIFYING SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 2 **CITY BARREL CO.** **Facility Id: 224005**
421−429 MEEKER STREET BROOKLYN, NY 11378 TT−Id: 120A−0001−368

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 198 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11222

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224005
CLASSIFICATION CODE: D1 REGION: 2 EPA ID:
CLASSIFICATION CODE DESCRIPTION:
Delisted site − hazardous waste not found

NAME OF SITE: City Barrel Co.
STREET ADDRESS: 421−429 Meeker Street
TOWN/CITY: Brooklyn ZIP: 11378 COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE:

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME.....:
ADDRESS..: 421−429 Meeker Street, Brooklyn, 11378
OWNER DURING DISPOSAL:
NAME.....:
OPERATOR(S) DURING DISPOSAL:
NAME.....:
ADDRESS..:

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
This site was listed in the Eckhardt subcommittee report as a disposal site. Investigation by the NYSDEC Regional offices indicate that this is an industrial operation to recycle, recover and refurbish drums and that no apparent disposal of hazardous or toxic waste have occurred here.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
Unknown	

ANALYTICAL DATA AVAILABLE FOR: Air− Surface Water− Groundwater− Soil− Sediment−
APPLICABLE STANDARDS EXCEEDED IN: Groundwater− Drinking Water− Surface Water− Air−

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION: Type: State− Federal−
STATUS: Negotiation in Progress− Order Signed−
REMEDIAL ACTION: Proposed− Under Design− In Progress− Completed−
NATURE OF ACTION:

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None known. No apparent disposal of significant quantities of any hazardous waste.

ASSESSMENT OF HEALTH PROBLEMS:

Map Identification Number 3 **BQE/ANSBACHER COLOR & DYE FACTORY** **Facility Id: 224016**
MEEKER AVENUE BROOKLYN, NY TT−Id: 120A−0004−734

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 2292 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224016

CLASSIFICATION CODE: 03 REGION: 2 DEC ID: 55913
CLASSIFICATION CODE DESCRIPTION:
Does not present a significant threat to the public health or the environment − action may be deferred.

NAME OF SITE: BQE/Ansbacher Color & Dye Factory
STREET ADDRESS: Meeker Avenue TOWN: New York City
CITY: Brooklyn ZIP: COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill−X Treatment Pond− ESTIMATED SIZE: 0.6 Acre

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: NYS Department of Transportation Owner Type: Other State Agency (State Government)
ADDRESS: STATE CAMPUS, BUILDING 5
ALBANY, NY 12232

NAME: NYS Department of Transportation
ADDRESS: State Campus − Building 5
Albany, NY 12232

OWNER(S) DURING DISPOSAL:
NAME: ANSBACHER COLOR & DYE FACTORY
ADDRESS:

OPERATOR(S) DURING DISPOSAL:
NAME: ANSBACHER COLOR & DYE FACTORY Operator Type: Other State Agency (State Government)
ADDRESS: MEEKER AVENUE
BROOKLYN, NY

NAME: Ansbacher Color & Dye Factory
ADDRESS: Meeker Avenue
Brooklyn, NY 11211

SITE DESCRIPTION:
This site lies underneath the elevated Brooklyn − Queens Expressway (I−278) along Meeker Avenue between Metropolitan and Union Avenues in the Williamsburg Section of Brooklyn. It is believed that during the construction of the BQE, waste material and debris from the former Ansbacher Color & Dye Factory may have been used as fill material in the project area. A Phase II − type

investigation was conducted by the New York State Department of Transportation in 1988. The investigation found hazardous levels of arsenic and lead in the soil and elevated levels of arsenic, lead and cyanide in the groundwater.
During the reconstruction of the BQE in the early 1990s, the NYSDOT completed an IRM (soil removal) within the project's right-of way. The remaining contaminated soil is located beneath asphalt and concrete.
A Preliminary Site Assessment was completed during the summer of 1999 to evaluate the areas outside the BQE footprint. The sampling results indicate that the subsurface soils within the footprint of the former Ansbacher Plant contain elevated levels of arsenic, lead, and mercury. The groundwater in this area is also contaminated with these metals, but the contaminated groundwater has not migrated significantly beyond the footprint of the former factory.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
LEAD	UNKNOWN
ARSENIC	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
The primary contaminants of concern at this site are arsenic, lead, mercury and cyanide.

Investigations indicate that the subsurface soils within the footprint of the former Ansbacher Plant contain elevated levels of arsenic, lead, and mercury. The groundwater in this area is also contaminated with these metals.

The site does not constitute a significant threat to the environment as the contaminated soil is covered by existing layers of asphalt and concrete, and the contaminated groundwater has not migrated significantly beyond the footprint of the former factory.

ASSESSMENT OF HEALTH PROBLEMS:
Residual arsenic and lead contamination remain under the BQE and is covered with several layers of concrete and asphalt, thereby preventing direct contact. Contaminated soil also underlies several on-site buildings formerly used by Ansbacher. Groundwater in the area is not used, since public water is available. Off-site sampling of surface soils from residential yards adjacent to the site indicated the presence of metals (particularly arsenic and lead) at concentrations above the range of concentrations typically encountered in urban neighborhoods. However, the exact source of the metals in the soils could not be determined from the data collected. The NYSDOH gave the residents advice on how to minimize their exposure to these surface soil contaminants.

PROJECT COMPLETIONS:
Operable Unit 01 - Remdial Program

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization		03/10/2000	Actual

Operable Unit 01A - IRM SOIL REMOVAL

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Action		08/01/1991	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR: Air- Surface Water- Groundwater-X Soil-X Sediment-

APPLICABLE STANDARDS EXCEEDED IN: Groundwater−X Drinking Water− Surface Water− Air−

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE: Fill over alluvium.
GROUNDWATER DEPTH: Range: 25 to 30 feet.

LEGAL ACTION:	Type:	State−	Federal−
STATUS:	Negotiation in Progress−	Order Signed−	
REMEDIAL ACTION:	Proposed− Under Design−	In Progress−	Completed−X
NATURE OF ACTION:	IRM−Soil removal.		

Map Identification Number 4 **K − WYTHE AVE. STATION** **Facility Id: 224069**
WYTHE AVE., BERRY ST., N 12TH & 13TH ST BROOKLYN, NY 11211 TT−Id: 120A−0006−088

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 2834 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224069
CLASSIFICATION CODE: A REGION: 2 DEC ID: 378992
CLASSIFICATION CODE DESCRIPTION:
Work is underway and not yet complete.

NAME OF SITE: K − Wythe Ave. Station
STREET ADDRESS: Wythe Ave., Berry St., N 12th & 13th St TOWN: New York City
CITY: Brooklyn ZIP: 11211 COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 2 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME.....:
ADDRESS..:

SITE DESCRIPTION:
Location: The Wythe Avenue (Berry Street)Holder Station is comprised of ten parcels of land located in Brooklyn, New York, Kings County. The site is bounded by North 13th Street, North 12th Street and Wythe Avenue.

Site Features: The main site features include several large warehouse buildings, loading docks and a paved parking lot in the NNE corner.

Current Zoning/Use(s): The current land use for the parcels includes industrial and manufacturing.

Historical Use(s): The gas holder and associated buildings operated at the site from sometime between 1903 and 1908 until sometime between 1951 and 1965. The holders operated sloely as gas distribution holders. No gas production facilities were present at the site. In 1965 the holders and all associated MGP buildings were dismantled when the property was sold.

Geology and Hydrogeology: Although site-specific geologic information is not yet available, the area is typically underlain by up to 20 feet of urban fill material, then various layers of gravelly sands, silts and clays. bedrock is typically located between 90 and 100 feet below ground surface. Groundwater is typically found between 10 and 12 feet bgs, and generally flows to the southwest.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Pre-Remediation: Site Characterization work is tentatively scheduled for early spring, 2012.

ASSESSMENT OF HEALTH PROBLEMS:
The NYSDOH will evaluate the potential for impacts to public health from exposure to site contaminants once sufficient information from the investigation of the site becomes available for review.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-	Soil-	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:

SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 5 **FORMER KLINK COSMO CLEANERS** **Facility Id: 224130**
364 RICHARDSON STREET BROOKLYN, NY 11222 TT−Id: 120A−0004−754

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 2857 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224130
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 405851
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: Former Klink Cosmo Cleaners
STREET ADDRESS: 364 Richardson Street TOWN: New York City
CITY: Brooklyn ZIP: 11222 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 1.08 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
224121	HW Site ID
224129	HW Site ID
224131	HW Site ID

224132 HW Site ID

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: PAVLOVICH & COMPANY Owner Type: PRP − Class 2 HazSubs
ADDRESS: 460 MORGAN AVENUE
BROOKLYN, NY 11222−5706

SITE DESCRIPTION:
Location:

The site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the southwest corner of the intersection of Vandervoort Avenue and Richardson Street.

Site Features:

The site is completely covered by a one−story brick building. Numerous other commercial and industrial properties are located to the north, south, and west of the site. The Greenpoint Little League fields and a National Grid energy facility are east of the site across Vandervoort Avenue. A small residential area is located 1−2 blocks north of the site. An eastbound on−ramp to the Brooklyn−Queens Expressway (I−278) is located 4 blocks to the north.

Current Zoning/Use(s):

The site is zoned for manufacturing. The site is currently used for sheet metal fabrication.

Historical Use(s):

The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on interviews with multiple residents indicating the site’s former usage as a commercial dry cleaner from the 1950’s to the mid 1990’s (including one former employee), and a Department database which lists the cleaners as a generator of F002 waste (spent halogenated solvents). This investigation was conducted in several phases, and was completed in the Summer of 2009.

Site Geology and Hydrogeology:

The site is underlain by a fill unit (0.5−8’ thick), a sand/silty sand unit (~100’ thick), a discontinuous clay/silt unit (~1−10’ thick) within the sand/silty sand unit, a sand and gravel unit (~1−3’ thick), and the Raritan Formation (located 108−113’ below ground surface).

Groundwater is approximately 24−50’ below ground surface in the vicinity of the site. Groundwater flows north to northeast toward Newtown Creek, which lies approximately 3,000’ northeast of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY

TETRACHLOROETHYLENE (PCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and Extent of Contamination:

− Groundwater

The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE has been found in shallow groundwater at concentrations up to 46,000 ppb, which is well above the Part 703.5 class GA standard of 5 ppb. PCE has also been found in very deep groundwater (atop the Raritan clay) at 4,500 ppb. The plume of PCE−contaminated groundwater has migrated at least 1,200' downgradient of the site.

− Soil Vapor

PCE has been found in soil vapor beneath the site at concentrations up to 48,200,000 ug/m^3.

Significant Threat:

The site poses a significant environmental threat due to ongoing releases of PCE from source areas into soil and groundwater.

ASSESSMENT OF HEALTH PROBLEMS:
Exposure to site−related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site−related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 6 **ACME STEEL/METAL WORKS** **Facility Id: 224131**
95 LOMBARDY STREET BROOKLYN, NY 11222 TT−Id: 120A−0004−755

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 3157 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224131
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 405853
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: ACME Steel/Metal Works
STREET ADDRESS: 95 Lombardy Street TOWN: New York City
CITY: Brooklyn ZIP: 11222 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 1.01 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
224121	HW Site ID
224129	HW Site ID
224130	HW Site ID
224132	HW Site ID

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: NYC IDA Owner Type: PRP − Class 2 HazSubs
MAUREEN BABIS
ADDRESS: 110 WILLIAM STREET
NEW YORK, NY 10038

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:
NAME: ACME ARCHITECTURAL PRODUCTS, INC. Operator Type: PRP − Class 2 HazSubs
PAUL BURDYN
ADDRESS: 251 LOMBARDY STREET
BROOKLYN, NY 11222

SITE DESCRIPTION:
Location:

The site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the east side of Vandervoort Avenue between Anthony and Lombardy Streets.

Site Features:

The site is completely covered by one (1) two−story and three (3) one−story brick buildings. The site is surrounded by other commercial and industrial properties. Sergeant William Dougherty Playground is located immediately north of the site across Anthony Street, and the eastbound on−ramp to the Brooklyn−Queens Expressway (I−278) is located one block to the north. A small residential area is located one block south of the site.

Current Zoning/Use(s):

The site is zoned for manufacturing. The site is currently used as a granite warehouse and showroom at 95 Lombardy Street, and a paper distribution office and a kitchen cabinet warehouse/showroom at 46 Anthony Street.

Historical Use(s):

The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on Sanborn fire insurance map data indicating that the site was utilized as a metal fabricator and painting facility from the 1930’s to the late 2000’s, and a Department database which lists the site as a generator of F001 waste (spent halogenated solvents used in de−greasing). This investigation was conducted in several phases, and was completed in the Summer of 2009.

Based on an extensive records search and several inspections, it was determined that waste paint, waste oil, waste degreasers, and waste water precipitate were generated at the property during site operations. Numerous floor drains with unknown outfall locations existed within the property, and were identified as potential injection wells. In addition, an underground storage tank that was used as a dip tank and for storing degreasing products was located in the northwest corner of the site. Several pipes that originated from the dip tank discharged to a floor drain in the loading dock area.

Site Geology and Hydrogeology:

The site is underlain by a fill unit (0.5−9’ thick), a sand/silty sand unit (~100’ thick), a discontinuous clay/silt unit (~1−10’ thick) within the sand/silty sand unit at various depths within the site area, a sand and gravel unit (~5’ thick), and the Raritan Formation (~120−125’ below ground surface).

Groundwater is approximately 35-45' below ground surface in the vicinity of the site. Groundwater flows northeast toward Newtown Creek, which lies approximately 2,500' northeast of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
TRICHLOROETHENE (TCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and Extent of Contamination:

- Groundwater

The primary contaminant of concern at the site is trichloroethene (TCE). TCE has been found on-site in shallow groundwater at concentrations up to 66,000 ppb, and in deep groundwater at concentrations up to 70,000 ppb, well above Part 703.5 class GA standards (5 ppb). Concentrations of tetrachloroethene (up to 1,100 ppb) and 1,2-dichloroethene (3,200 ppb) have also been found above their respective Part 703.5 class GA standards (5 ppb each). The plume of TCE-contaminated groundwater has migrated at least 400' off-site.

Significant Threat:

The site poses a significant environmental threat due to ongoing releases of TCE from source areas into soil and groundwater.

ASSESSMENT OF HEALTH PROBLEMS:
Exposure to site-related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site-related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-	Soil-	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State-	Federal-
STATUS:	Negotiation in Progress-		Order Signed-	
REMEDIAL ACTION:	Proposed-	Under Design-	In Progress-	Completed-

NATURE OF ACTION:

Map Identification Number 7 **FORMER SPIC AND SPAN CLEANERS AND DYERS, INC.** **Facility Id: 224129**
315 KINGSLAND AVENUE BROOKLYN, NY 11222 TT−Id: 120A−0004−572

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 3347 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224129
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 405850
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: Former Spic and Span Cleaners and Dyers, Inc.
STREET ADDRESS: 315 Kingsland Avenue TOWN: New York City
CITY: Brooklyn ZIP: 11222 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 0.51 Acre

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
224121	HW Site ID
224130	HW Site ID
224131	HW Site ID
224132	HW Site ID

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: DELTA PROPERTY ASSOCIATES Owner Type: PRP − Class 2 HazSubs
ADDRESS: 260 NORMAN AVENUE

NEW YORK, NY 11201

NAME: DOUBLE STAR REALESTATE, INC. Owner Type: Innocent Owner −Class 2a/2/3/4/5 HS
ADDRESS: 307 KINGSLAND AVENUE
NEW YORK, NY 11222

NAME: DOUBLE STAR REALESTATE, INC. Owner Type: Innocent Owner −Class 2a/2/3/4/5 HS
FRANK CHAN
ADDRESS: 307 KINGSLAND AVENUE
NEW YORK, NY 11222

SITE DESCRIPTION:

Location:

The site is located in the Greenpoint section of Kings County (Borough of Brooklyn, New York City). The site is located on the southwest corner of the intersection of Kingsland and Norman Avenues.

Site Features:

The site is completely covered by multiple buildings of varying construction and height. Numerous other commercial and industrial properties are located to the north, east, and west of the site. A large residential area is located immediately south of the site, and extends south along both Kingsland Avenue and Monitor Street. A large sewage treatment plan is ~1/2 mile north of the site.

Current Zoning/Use(s):

The site is zoned for both residential and light manufacturing. The site is partially occupied, and is utilized for a variety of purposes (residential, warehousing, woodworking shop, etc.).

Historical Use(s):

The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on Sanborn fire insurance map data indicating that the site was operated by Spic and Span Cleaners and Dyers, Inc. (a.k.a. Eastern District Dye Works) from the early 1900’s until the mid−1960’s. This investigation was conducted in several phases, and was completed in the Summer of 2009.

Site Geology and Hydrogeology:

The site is underlain by a fill unit (0.5−10’ thick), a stratified sand unit with some to no fines (over 120’ thick), a discontinuous glacial till unit within the sand unit (0.5−50’ thick), a discontinuous clayey silt unit within the sand unit (0.5−25’ thick), and the Raritan Formation (~138.5’ below ground surface).

Groundwater is approximately 11−25’ below ground surface in the vicinity of the site. Groundwater flows north to northeast

toward Newtown Creek, which lies approximately 1,300’ northeast of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
TETRACHLOROETHYLENE (PCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and Extent of Contamination:

− Groundwater

The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE has been found in shallow groundwater at concentrations up to 39,000 ppb, and in deep groundwater at concentrations up to 76,000 ppb, well above the Part 703.5 class GA standard of 5 ppb. PCE DNAPL has also been found on−site at concentrations up to 730,000 ppm (73%) in deep monitoring wells. Trichloroethene (up to 3,900 ppb), cis−1,2−dichloroethene (up to 14,000 ppb), and vinyl chloride (up to 3,200 ppb) have also been found in shallow groundwater at concentrations above their respective Part 703.5 class GA standards (5 ppb each).

− Soil

PCE has been found in soil up to 290,000 ppm, well above the soil cleanup objective for unrestricted use (1.3 ppm).

Significant Threat:

The site poses a significant environmental threat due to ongoing release of PCE from source areas into soil and groundwater.

ASSESSMENT OF HEALTH PROBLEMS:
Exposure to site−related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site−related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

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LEGAL ACTION:                Type:                              State-            Federal-
STATUS:                      Negotiation in Progress-           Order Signed-
REMEDIAL ACTION:             Proposed-       Under Design-      In Progress-      Completed-
NATURE OF ACTION:
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Map Identification Number 8 **K - WILLIAMSBURG WORKS** **Facility Id: 224055**

KENT AVE & 12TH STREET BROOKLYN, NY 11211- TT-Id: 120A-0006-234

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 3567 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: KENT AVE / N 12TH STREET
Revised zip code: 11211

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

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                                                                                    SITE CODE: 224055
CLASSIFICATION CODE: A                                  REGION: 2                   DEC ID:    372653
CLASSIFICATION CODE DESCRIPTION:
  Work is underway and not yet complete.

NAME OF SITE:    K - Williamsburg Works
STREET ADDRESS:  Kent Ave & 12th Street                                                TOWN:   New York City
CITY:            Brooklyn                       ZIP: 11211-                            COUNTY: Kings

SITE TYPE:       Dump-   Structure-   Lagoon-   Landfill-   Treatment Pond-      ESTIMATED SIZE: 4.7 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
  None reported

CROSS REFERENCES:
    IDENTIFIER                SOURCE
  ------------------   ---------------------------
  224028               HW Site ID

SITE OWNER/OPERATOR INFORMATION:
  CURRENT OWNER(S):
    NAME.....:
    ADDRESS..:
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SITE DESCRIPTION:

Transition from V00704 and C224055. The Williamsburg Works Manufactured Gas Plant (MGP) site is composed of three parcels of land located on the east bank of the East River in Brooklyn New York in Kings County. The site is located between North 11th and North 12th Streets on the west side of Kent Avenue. A manufactured gas plant operated om the site from at least 1887 to 1916 according to Sanborn Fire Insurance(Sanborn) maps.

Current land use includes a document storage warehouse, an inactive petroleum terminal, and one vacant lot which until recently housed a Sanitation Dep't garage.

The City of NY has identified this site for construction of a proposed waterfront park, which would extend far beyound site boundaries to the north and south. One parcel (50 Kent Avenue) has already been acquired. An IRM is slated for this parcel in late 2012.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

According to the USEPA, a preliminary assessment (PA) was prepared for the site dated September 24, 1986. A copy of the PA was not supplied with the application. The environmental assessment for this site has not yet been completed. The site is the confirmed location of a historic MGP. MGPs have known onsite by products of DNAPL and purifier waste. The materials are made up of BTEX, PAHs, and cyanide. The DNAPL causes contravention of both groundwater and soil SCGs. The site is also adjacent to the East River and several public and private buildings, including residences. DNAPL is known to migrate into surface water bodies, contaminating sediment. The BTEX components are also known to contribute to soil vapor issues. There are already reports of tar seeping into the East River and tar has been found on an adjacent property.

ASSESSMENT OF HEALTH PROBLEMS:

The NYSDOH will evaluate the potential for impacts to public health from exposure to site contaminants once sufficient information from the investigation of the site becomes available for review.

PROJECT COMPLETIONS:

None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air–	Surface Water–	Groundwater–	Soil–	Sediment–
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater–	Drinking Water–	Surface Water–	Air–	

GEOTECHNICAL INFORMATION:

SOIL/ROCK TYPE:

GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 9 **ACME STEEL/BRASS FOUNDRY** **Facility Id: 224132**
72 ANTHONY STREET BROOKLYN, NY 11222 TT−Id: 120A−0006−606

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 3641 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224132
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 405855
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: ACME Steel/Brass Foundry
STREET ADDRESS: 72 Anthony Street TOWN: New York City
CITY: Brooklyn ZIP: 11222 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 1.21 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
224121	HW Site ID
224129	HW Site ID
224130	HW Site ID
224131	HW Site ID

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER(S):
NAME: NYC IDA
MAUREEN BABIS
ADDRESS: 110 WILLILAM STREET
NEW YORK, NY 10038
Owner Type: PRP − Class 2 HazSubs

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:
NAME: ACME ARCHITECTURAL PRODUCTS, INC.
PAUL BURDYN
ADDRESS: 251 LOMBARDY STREET
BROOKLYN, NY 11222
Operator Type: PRP − Class 2 HazSubs

SITE DESCRIPTION:

Location:

The site is located in the Greenpoint/East Williamsburg Industrial Area section of Kings County (Borough of Brooklyn, New York City). The site is located on the east side of Porter Avenue between Anthony and Lombardy Streets.

Site Features:

The site is covered by several two−story buildings and two (2) separate open lots. The site is surrounded by other commercial and industrial properties. A large National Grid energy facility is located one block south of the site across Lombardy Street. Sergeant William Dougherty Playground is located one block northwest of the site across Anthony Street, and the elevated Brooklyn−Queens Expressway (I−278) is located one block to the north. A small residential area is located one block southwest of the site.

Current Zoning/Use(s):

The site is zoned for manufacturing. The site is currently used as a marble and granite distribution warehouse and a fruit distribution warehouse at 72 Anthony Street, and a City−Wide truck maintenance shop at 498 Porter Avenue.

Historical Use(s):

The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID No. 224121). This particular location was specifically targeted for investigation based on Sanborn fire insurance map data indicating that the site was utilized as a brass foundry from the 1960’s to 1993, and a Department database which lists the site as a generator of F001 waste (spent halogenated solvents used in de−greasing). This investigation was conducted in several phases, and was completed in the Summer of 2009.

Based on an extensive records search and several inspections, it was determined that waste paint, waste oil, waste degreasers, and waste water precipitate were generated at the property during site operations. Numerous floor drains with unknown outfall locations existed within the property, and were identified as potential injection wells. Several storage tanks that were used as

dip tanks for degreasing products were located in the northeast corner of the site, where evidence of releases existed. In addition, the open lot adjacent to the 72 Anthony Street building was used as a drum storage area that held all chemical wastes from the surrounding ACME facilities.

Site Geology and Hydrogeology:

The site is underlain by a fill unit (0.5−9′ thick), a sand/silty sand unit (~110′ thick), a discontinuous clay/silt unit (~1−10′ thick) within the sand/silty sand unit at various depths within the site area, a sand and gravel unit (~5′ thick), and the Raritan Formation (~130−135′ below ground surface).

Groundwater is approximately 45−55′ below ground surface in the vicinity of the site. Groundwater flows northeast toward Newtown Creek, which lies approximately 2,000′ northeast of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
TETRACHLOROETHYLENE (PCE)	UNKNOWN
TRICHLOROETHENE (TCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and Extent of Contamination:

− Groundwater

The primary contaminants of concern at the site are tetrachloroethene (PCE) and trichloroethene (TCE). Both PCE (up to 6,900 ppb) and TCE (up to 12,000 ppb) have been found at concentrations well above the Part 703.5 class GA standard of 5 ppb. The plume of PCE and TCE−contaminated groundwater has migrated at least 400′ off−site.

− Soil

PCE has been found in on−site soils at concentrations up to 220 ppm, which is above the soil cleanup objective for unrestricted use (1.3 ppm).

Significant Threat:

The site poses a significant environmental threat due to ongoing releases of TCE from source areas into soil and groundwater.

ASSESSMENT OF HEALTH PROBLEMS:
Exposure to site−related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site−related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.

PROJECT COMPLETIONS:

None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 10 **BROOKLYN NORTH 1 GARAGE** **Facility Id: 2−019**
50 KENT AVENUE BROOKLYN, NY TT−Id: 180A−0001−343

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 3858 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT
REGION: 2

NAME OF SITE: Brooklyn North 1 Garage
STREET ADDRESS: 50 Kent Avenue
TOWN/CITY: Brooklyn COUNTY: Kings

Registry Qualifying Investigations Underway as of 07/1998

Map Identification Number 11 **K − EQUITY WORKS** **Facility Id: 224050**
MASPETH AND VANDERVORT AVES. BROOKLYN, NY 11211− TT−Id: 120A−0005−853

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 3888 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224050
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 372655
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: K − Equity Works
STREET ADDRESS: Maspeth and Vandervort Aves. TOWN: New York City
CITY: Brooklyn ZIP: 11211− COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 2 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: WEST TERMINAL LLC
C/O MIRIAM CHAN
ADDRESS: 816 56TH STREET
BROOKLYN, NY 11220

SITE DESCRIPTION:
The Equity Works Manufactured Gas Plant (MGP) site is located oin an urban area in the Greenpoint section of Brooklyn, Kings County. The site is composed of three parcels of land including 222, 252 and 254 Maspeth Ave, totalling approximately 2 acres in size. The site is approximately 2 blocks from the English Kill, a tributary of Newtown Creek.

The current land use includes industrial, manufacturing, transportation, utility and vacant land. The Equity site is currently operated by Cooper Tank as a C&D sorting facility. The nearest residential property is located approximately 1000 feet to the

south.

The MGP on this site was relatively small, and operated from at least 1907 until sometime prior to 1933 according to Sanborn Fire Insurance Maps. The Greenpoint Energy Center, containing the far larger Greenpoint former MGP, is located across Maspeth Avenue to the north.

Transitioned from V00699 and C224050. A Remedial Investigation began in 2009 and is ongoing.

The site is underlain by historic fill, glacial outwash sands, and silty clay. The groundwater table is approximately 5 to 10 feet below ground surface. Groundwater flow is generally toward the English Kill, to the east.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
The RI is underway, so the environmental assessment for this site has not yet been completed. The site is the confirmed location of a historic MGP. DNAPL has been encountered on site during the installation of construction borings. Preliminary RI results indicate that tar has almost certainly migrated onto adjacent properties.

Cooper tank’s on site well (used to supply dust suppression water) has a column of tar in it several feet high, so the tar is clearly mobile. National Grid has arranged to provide city water, so that use of the well is now discontinued.

Coal tar from MGP sites contains BTEX, PAHs, and cyanide. The presence of DNAPL represents a significant threat to the environment. The site is also adjacent to Newtown Creek and several public and private buildings, including residences. DNAPL is known to migrate into surface water bodies, contaminating sediment. The BTEX components may also contribute to soil vapor issues.

ASSESSMENT OF HEALTH PROBLEMS:
Persons who dig below the ground surface may come into contact with contaminants in subsurface soil and groundwater. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. An on−site pumping well/process water well used for dust suppression and cleaning is treated prior to use. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for people to inhale site contaminants in indoor air due to soil vapor intrusion in any future on−site building development and occupancy. Soil vapor intrusion has been evaluated in the two on−site buildings. Soil vapor intrusion was occurring in one structure and measures have been taken to prevent contaminated soil vapor from entering the structure. Soil vapor intrusion has yet to be evaluated off−site.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR: Air− Surface Water− Groundwater− Soil− Sediment−
APPLICABLE STANDARDS EXCEEDED IN: Groundwater− Drinking Water− Surface Water− Air−

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 12 **MOBIL OIL BROOKLYN TERMINAL** **Facility Id: 224013**
300 N. HENRY ST. BROOKLYN, NY TT−Id: 120A−0001−366

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 3966 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: 300 N HENRY ST
Revised zip code: 11222

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224013
CLASSIFICATION CODE: D1 REGION: 2 EPA ID:
CLASSIFICATION CODE DESCRIPTION:
Delisted site − hazardous waste not found

NAME OF SITE: Mobil Oil Brooklyn Terminal
STREET ADDRESS: 300 N. Henry St.
TOWN/CITY: Brooklyn ZIP: COUNTY: Kings

SITE TYPE: Dump−X Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 15 Acres

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):

NAME.....:
ADDRESS..: 300 N. Henry St., Brooklyn,
OWNER DURING DISPOSAL:
NAME.....: Mobil Oil
OPERATOR(S) DURING DISPOSAL:
NAME.....:
ADDRESS..:

HAZARDOUS WASTE DISPOSAL PERIOD: from 1900 to 1985

SITE DESCRIPTION:
Large storage area. Facility was built on an old refinery. Possiblity of groundwater contamination due to poor operation. Newton Creek is adjacent to the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
Gasoline, Kerosene, Fuel Oil, Others	Unknown

ANALYTICAL DATA AVAILABLE FOR: Air- Surface Water- Groundwater- Soil- Sediment-
APPLICABLE STANDARDS EXCEEDED IN: Groundwater- Drinking Water- Surface Water- Air-

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION: Type: State- Federal-
STATUS: Negotiation in Progress- Order Signed-
REMEDIAL ACTION: Proposed- Under Design- In Progress- Completed-X
NATURE OF ACTION:

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Site has been remediated.

ASSESSMENT OF HEALTH PROBLEMS:

Map Identification Number 13 **K − WILLIAMSBURG WORKS** **Facility Id: 224055**
KENT AVE & 12TH STREET BROOKLYN, NY 11211− TT−Id: 120A−0004−748

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE − LARGE SITE
Approximate distance from property: 4095 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: KENT AVE / N 12TH STREET
Revised zip code: 11211

See initial profile for 'K − WILLIAMSBURG WORKS' above.

Map Identification Number 14 **CARBONA PRODUCTS** **Facility Id: 2−017**
330 CALYER STREET BROOKLYN, NY TT−Id: 180A−0001−355

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 4147 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT
REGION: 2

NAME OF SITE:    Carbona Products
STREET ADDRESS:  330 Calyer Street
TOWN/CITY:       Brooklyn                    COUNTY: Kings

Registry Qualifying Investigations Underway as of 04/1998
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Map Identification Number 15 **KENT TERMINAL** **Facility Id: 2−014**
KENT AVE. BETWEEN N.5TH & N.11TH ST. BROOKLYN, NY TT−Id: 180A−0001−324

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 4336 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT
REGION: 2

NAME OF SITE: Kent Terminal
STREET ADDRESS: Kent Ave. between N.5th & N.11th ST.
TOWN/CITY: Brooklyn COUNTY: Kings

Registry Qualifying Investigations Underway as of 10/1996

Map Identification Number 16 **NEWTOWN CREEK** **Facility Id: 241117**
NEWTOWN CREEK (BETWEEN BROOKLYN AND QUEENS) MASPETH, NY 11378 TT−Id: 120A−0006−258

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING − LARGE SITE
Approximate distance from property: 4730 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code:

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 241117
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 410481
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: Newtown Creek
STREET ADDRESS: Newtown Creek (between Brooklyn and Queens) TOWN: New York City
CITY: Maspeth ZIP: 11378 COUNTY: Queens

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond−X ESTIMATED SIZE: 170 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER(S):

NAME: NYS Office of General Services
Division of Real Estate Development
ADDRESS: Bureau of Land Management
26th Floor Corning Tower − Empire State Plaza
Albany, NY 12242
Owner Type: Other State Agency (State Government)

NAME: New York City Law Department
ADDRESS: Office of the Corporation Counsel
100 Church Street
New York, NY 10007−2601
Owner Type: Local Government

SITE DESCRIPTION:

LOCATION:
Newtown Creek is an estuarine waterbody that forms a portion of the boundary between the boroughs of Brooklyn and Queens in New York City. The site definition includes all the waters, shoreline, channel, tidal−affected zones, and sediments of Newtown Creek, and its tributaries (natural, created, and controlled), from its headwaters to its confluence with the East River. Tributaries include Whale Creek (and the Whale Creek Overflow Canal), Dutch Kills, Maspeth Creek, East Branch, and the English Kills.

SITE FEATURES:
The entire creek system extends approximately 3.8 miles from the English Kills to the East River. A substantial portion of the creek is contained by bulkheads or riprap and its width averages 200−300 feet. Average depth in the navigable channels is 20 feet below mean low water level. Total surface area of the creek is approximately 170 acres.

CURRENT ZONING/USE:
The Newtown Creek is primarily used for the transport of materials and goods produced and consumed by the industry, businesses and development projects along its banks. A small amount of recreational boating also occurs there. Various forms of fishing have been documented in the creek despite applicable fishing restrictions in place for the creek waters.

The surrounding area is still very diverse in terms of land use and potential contaminant contributors. Upland areas adjacent to the creek that are contributing to its flow and contaminant loading include oil storage facilities, inactive hazardous waste disposal sites, active manufacturing facilities, spills, and other uncontrolled sources. The total original natural drainage area of the creek and tributaries encompassed nearly 7,650 acres.

HISTORICAL USES:
Newtown Creek is a waterway that has served as a conduit for the transportation of raw materials and products dating back nearly 200 years. It has also been used for the disposal of numerous wastes, including sewage, industrial, and commercial wastes, through outfalls flowing into the creek. Direct releases of wastes have also entered Newtown Creek from the creek banks.

The area immediately surrounding the creek has been, and remains, the location of many forms of industrial and commercial activity. Such historic industrial uses include shipbuilding, textiles, metal smelting, and oil refining.

SITE GEOLOGY & HYDROGEOLOGY:

The original watershed has been permanently altered by urbanization such that there is virtually no freshwater flow to the creek other than stormwater and municipal combined sewer overflows (CSOs) during wet weather. There are 20 CSO outfalls and over 100 stormwater discharges to the Creek. Significant outfalls are located in the English Kills, East Branch, Maspeth Creek, and Dutch Kills. Inflow is estimated to be in excess of 1.4 billion gallons annually. Much of this flow contains significant concentrations of contaminants, including polychlorinated biphenyls (PCBs), metals, oil and grease, coliform bacteria, and solid waste.

The creek is classified by New York State as Class SD saline surface water with best uses designated for fishing and fish survival. Class SD waters have natural or man-made conditions limiting attainment of higher standards. The creek does not attain these standards at present. Documented water quality problems include low dissolved oxygen, odors, and solid waste. Sediments on the creek bottom are contaminated with PCBs, heavy metals such as lead, mercury, and copper, and petroleum hydrocarbons.

OTHER:
The NYSDEC nominated the creek and its tributaries to the National Priorities List (NPL) in January 2009. The site was formally proposed to the NPL on September 23, 2009 and was added to the NPL by rule-making notice in the Federal Register of September 29, 2010.

To document the site's eligibility for the NPL and prepare a Hazard Ranking Score, EPA initiated an Expanded Site Investigation in the creek in February 2009. The investigation included extensive sampling of sediment. The Expanded Site Inspection effort and report were completed in July 2009.

The USEPA is the lead agency and has negotiated and developed an RIFS work plan and adminstrative order on consent with identified responsible parties. The DEC provided comments on the RIFS work plan in February 2011 and the work plan was finalized in July 2011.

Sampling of creek sediments began in April 2012.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
LEAD	UNKNOWN
ZINC	UNKNOWN
PCB-AROCLOR 1254	UNKNOWN
MERCURY	UNKNOWN
POLYCHLORINATED BIPHENYLS (PCB)	UNKNOWN
PCB-AROCLOR 1242	UNKNOWN
COPPER	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Newtown Creek has a history of intensive industrial use dating back nearly 200 years. Historic industrial uses include shipbuilding, textiles, metal smelting, and oil refining. The surrounding area is still very diverse in terms of land use and potential contaminant contributors. Upland areas adjacent to the creek that are contributing to its flow and contaminant loading include oil storage facilities, inactive hazardous waste disposal sites, active manufacturing facilities, spills, and other uncontrolled sources.

The original watershed has been permanently altered by urbanization such that there is virtually no freshwater flow to the creek other than stormwater and municipal combined sewer overflows (CSOs) during wet weather. There are 20 CSO outfalls and over 100 stormwater discharges to the Creek. Significant outfalls are located in the English Kills, East Branch, Maspeth Creek, and Dutch Kills. Inflow is estimated to be in excess of 1.4 billion gallons annually. Much of this flow contains significant concentrations of contaminants, including polychlorinated biphenyls (PCBs), metals, oil and grease, coliform bacteria, and solid waste.

The creek is classified by New York State as Class SD saline surface water with best uses designated for fishing and fish survival. Class SD waters have natural or man−made conditions limiting attainment of higher standards. The creek does not attain these standards at present. Documented water quality problems include low dissolved oxygen, odors, and solid waste.

Newtown Creek was added to the NPL on September 29, 2010. EPA listed the site based on surface water contamination and heavily contaminated sediment. Sampling has detected a variety of pollutants in excess of sediment criteria, including the metals antimony, arsenic, cadmium, chromium, copper, lead, nickel, selenium, silver, and zinc; polycyclic aromatic hydrocarbons (PAH); total petroleum hydrocarbons (TPH); polychlorinated biphenyls (PCBs); and volatile organic contaminants (VOC). The extent of contamination traverses the entire length of the Creek. The contaminants of greatest concern in sediment are:

1) Poly−cyclic aromatic hydrocarbons(PAHs), including several carcinogenic compounds, are ubiquitous in the creek at levels from low ppm up to thousands of ppm in the areas of highest impact.

2) Metals, including Lead with levels up to 2,400 ppm (sediment criteria median effect level (MEL) = 218); Mercury with typical levels in the 1−4 ppm range (MEL= 0.71); Copper with levels from 500 to 39,200 ppm(MEL=270); Zinc with levels up to 15,500 ppm (MEL= 410).

3)Polychlorinated biphenyls (PCBs) are present in accumulated sediments at total concentrations ranging from 1 to 106 ppm, with an average concentration of >3 ppm (DEC sediment criteria is 0.1 ppm).

4) TPH: Petroleum hydrocarbons are ubiquitous,at levels up to 74,000 ppm.

Sediment contamination constitutes a significant threat to the environment.

ASSESSMENT OF HEALTH PROBLEMS:

People using the creek for recreational purposes such as swimming and boating may come into direct contact with chemical contaminants and harmful biological organisms. People may come in contact with contaminants present in the shallow creek sediments while entering or exiting the creek during recreational activities. Fish and shellfish in the creek are likely to contain the same chemical contaminants that are present in surface water and shallow creek sediments; therefore, people who consume fish and shellfish from the creek are likely to be consuming these contaminants as well. People are not drinking the contaminated creek water because the area is served by a public water supply that obtains its water from a different source.

PROJECT COMPLETIONS:

Operable Unit 01 − Remedial Program − NPL Site

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization	Expanded Site Inspection − NPL Evaluation	07/16/2009	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 17 **K − GREENPOINT MGP − ENERGY CENTER** **Facility Id: 224052**
287 MASPETH AVENUE BROOKLYN, NY 11211 TT−Id: 120A−0004−745

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE − LARGE SITE
Approximate distance from property: 4763 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: UNKNOWN

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224052
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 372971
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: K − Greenpoint MGP − Energy Center
STREET ADDRESS: 287 MASPETH AVENUE TOWN: New York City
CITY: Brooklyn ZIP: 11211 COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 117 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: BROOKLYN UNION GAS COMPANY
N/A
ADDRESS: 1 METROTECH CENTER
BROOKLYN, NY 11201

SITE DESCRIPTION:
The Greenpoint Manufactured Gas Plant(MGP) site is a large parcel located along Newtown Creek at 287 Maspeth Avenue in Brooklyn,NY in Kings County. The site is currently known as the Greenpoint Energy Center, and houses a major liquefied natural gas storage facility and compressor station, an operations center for KeySpan's distribution and service units, and a warehouse facility. Surrounding land uses are mixed industrial, residential, and commercial.

A large MGP and byproduct coking operation operated on the site from 1928 until 1952. Coal tar has been found in subsurface soils, but the full extent of contamination has not yet been established. The surrounding neighborhood also conatins a large petroleum spill, apparently unrelated to the MGP.

A VCA to address the northeast corner of the property was listed under V00631. This work was undertaken to allow expansion of the existing liquefied gas facility, and included a relatively small portion of the site. A site-wide RI began in the summer of 2012. The RI will be conducted in 3 phases and is scheduled to conclude in late 2014.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
NAPHTHALENE	17.00
PYRENE	83.00
BENZENE	3.30
BENZO(A)PYRENE	33.00
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
According to the USEPA a preliminary assessment (PA) was prepared for the site dated September 24, 1986. The PA was not submitted or reviewed. A draft preliminary site investigaiton report was submitted to the Department in June 2004 for the northeast corner of the site. This report noted MGP DNAPL found across the site in the shallow depths (0-5 feet bgs) This material caused most of the soil samples to fail standards for several SVOCs including naphthalene, benzo(a)pyrene, and benzo(a)anthracene. The area noted was addressed in an IRM, but should be representative of a best-case for the site as a whole as it was in an area which was not actually part of the MGP operations. These exceedances represent a significant threat to the environment, This material is also known to contribute to groundwater contamination and sediment contamination. The site's location, adjacent to Newtown creek, means there is a potential for DNAPL to be leaking into the creek, contaminating sediments and surface water.
A RI is currently ongoing. The first phase, begun in July 2012 is focused on the eastern portion of the site, adjacent to Newtown

Creek.

ASSESSMENT OF HEALTH PROBLEMS:
Public exposures to wastes in soil and groundwater at the site are unlikely since access to the site is restricted. Potential impacts from soil vapors need to be evaluated. Potential exposures to seepage from the site in the adjacent Newtown Creek are unknown. Eating of fish and shellfish from Newtown Creek is restricted based on fish advisories for the East River, which apply to Newtown Creek as a tributary.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 18 **B.C.F. OIL REFINING, INC.** **Facility Id: 224034**
360−362 MASPETH AVENUE, SOUTHSIDE BROOKLYN, NY 11211 TT−Id: 120A−0001−361

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 4895 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: 360 MASPETH AVENUE, SOUTHSIDE
Revised zip code: NO CHANGE

This facility has been deleted from the reported data. Data reflects last reported information.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224034

CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 56747
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: B.C.F. Oil Refining, Inc.
STREET ADDRESS: 360−362 Maspeth Avenue, Southside TOWN: New York City
CITY: Brooklyn ZIP: 11211 COUNTY: Kings

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 1.9 Acres

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
9406807	Spill No.
NYD980647283	EPA Site ID
w2−1092−06−08	Agreement/Consent Order Number

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME: NEWTON DEVELOPMENT LLC
C/O SETH D. FRIEDLAND, ESQ.
ADDRESS: 62 WILLIAM STREET
THIRD FLOOR
NEW YORK, NY 10005

SITE DESCRIPTION:
The BCF Oil site is located within an urban, industrialized area of East Williamsburg, Brooklyn. Previously existing buildings and above ground storage tanks have been removed, and the property is being used as a Marshall’s impound lot. A National Grid facility borders the site on the north, Newtown Creek on the south, a city automobile impound lot on the east and a scrap metal processing facility on the west. The total area is 1.9 acres, of which 0.3 acres is land under water.

The property was used as a petroleum distribution facility for many years, starting in the early 1900’s. In 1980, the terminal was modified for use as a waste oil processing facility, and was used for waste oil recycling from 1980 to 1994. Routine sampling detected PCBs in the waste oil, and operations ceased in 1994. The property is zoned M3 (manufacturing/industrial), and it is currently used to store impounded automobiles.

The site consists primarily of historic fill placed upon wetlands. Groundwater exists approximately 5 to 10 feet below grade and flows both to the north and south from the site.

A remedial investigation of the site to determine the nature and extent of contamination has been completed. The site is currently being managed as a single operable unit. In addition, there is an open NYSDEC spill at this location; spill #9406807

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
PCB-AROCLOR 1242	UNKNOWN
PCB-AROCLOR 1254	UNKNOWN
PCB-AROCLOR 1260	UNKNOWN
POLYCHLORINATED BIPHENYLS (PCB)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Based upon investigations conducted to date, the primary contaminant of concern at the site are those associated with petroleum. Separate phase petroleum contamination has been detected in numerous locations, although mobile product may be more limited.

The site was extensively assessed for PCB contamination, but no significant levels of PCBs were detected on site. PCBs were detected in the Newtown Creek sediment, but the sediment contamination appears to be part of a larger problem and not related to releases from the site.

A significant threat created by the potential for release of PCB-contaminated oil stored in dilapidated storage tank areas was eliminated by a removal action performed by the USEPA in 2000/2001.

More information about this project can be found in the document repository for the site.

ASSESSMENT OF HEALTH PROBLEMS:

Persons who dig below the ground surface may come into contact with soil and groundwater contaminated with volatile organic compounds. People are not exposed to contaminants in drinking water since the area is served by a public water supply. Also, they are not coming into contact with the groundwater unless they dig greater than 10 feet below the ground surface. Organic compounds in the soil and groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings is referred to as soil vapor intrusion. The potential exists for the inhalation of site-related contaminants in indoor air due to soil vapor intrusion for any future on-site construction.

PROJECT COMPLETIONS:

None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-X	Soil-X	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-X	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:

SOIL/ROCK TYPE: Moraine deposits interbedded with clay.
GROUNDWATER DEPTH: Range: 5 to 10 feet.

LEGAL ACTION: Type: State- Federal-

STATUS: Negotiation in Progress− Order Signed−
REMEDIAL ACTION: Proposed− Under Design− In Progress− Completed−
NATURE OF ACTION:

Map Identification Number 19 **K − SCHOLES ST. STATION** **Facility Id: 224067**
SCHOLES ST 7 BOGART STS, MESSEROLE & MORGAN AVE. BROOKLYN, NY 11206 TT−Id: 120A−0006−087

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 5007 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: SCHOLES ST / MORGAN AVE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 224067
CLASSIFICATION CODE: A REGION: 2 DEC ID: 379002
CLASSIFICATION CODE DESCRIPTION:
Work is underway and not yet complete.

NAME OF SITE: K − Scholes St. Station
STREET ADDRESS: Scholes St 7 Bogart Sts, Messerole & Morgan Ave. TOWN: New York City
CITY: Brooklyn ZIP: 11206 COUNTY: Kings

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond− ESTIMATED SIZE: 0.9 Acre

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER(S):
NAME.....:
ADDRESS..:

SITE DESCRIPTION:
Location: The Scholes Street Holder Station is comprised of three parcels of land located in Brooklyn, New York, Kings County.

The site is bounded by Scholes Street, Bogart Street and Meserole Street.

Site Features: The main site features include several large warehouse and light manufacture buildings plus a small parking area.

Current Zoning/Use(s): The current land use for the parcels includes both commercial and industrial. The parcels are zoned M1-1, light manufacturing, commercial, community facility.

Historical Use(s): The gas holder and associated buildings operated at the site from at least 1907 until 1933.

Site Geology and Hydrology: The site is composed of unconsolidated clay, silt, sand, gravel overlying southward-dipping consolidated bedrock. Shallow groundwater flow believed to flow generally east, though urban variables may change this on-site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
COAL TAR	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Pre-Remediation: The SC investigation set to begin in early 2012.

ASSESSMENT OF HEALTH PROBLEMS:
The NYSDOH will evaluate the potential for impacts to public health from exposure to site contaminants once sufficient information from the investigation of the site becomes available for review.

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-	Soil-	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State-	Federal-
STATUS:	Negotiation in Progress-		Order Signed-	
REMEDIAL ACTION:	Proposed-	Under Design-	In Progress-	Completed-
NATURE OF ACTION:				

NO RCRA CORRECTIVE ACTION SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS

CERCLIS SUPERFUND SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 20 **CITY BARREL** **EPA Facility Id: NYD068298835**
421−429 MEEKER ST BROOKLYN, NY 11222 TT−Id: 240A−0001−368

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 198 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11222

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USEPA COMPREHENSIVE ENVIRONMENTAL RESPONSE
COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)

SITE INFORMATION

EPA−ID: NYD068298835 Site−ID: 0201593
Site Name: CITY BARREL
Site Street: 421−429 MEEKER ST
Site City/State/Zip: BROOKLYN, NY 11222

NFRAP (No Further Remedial Activity Planned) Status: NO FURTHER REMEDIAL ACTION PLANNED

USGS Hydrological Unit: 02030201 NPL Status Indicator: Not on the NPL
Incident Category: RCRA Flag:
Non−NPL Status: NFRAP Non−NPL Stat Date: 09/02/1987
Federal Facility Flag: Not a Federal Facility

OPERABLE UNIT INFORMATION

Operable Unit ID: 00 Operable Unit Name: SITEWIDE

ACTION INFORMATION

Name: Discovery Start Date: Operable Unit ID: 00
Lead: EPA Fund−Financed Completion Date: 04/25/1980

Qualifier:
Fin Budget Src:

Name: Preliminary Assessment
Lead: EPA Fund−Financed
Qualifier: NFRAP (No Futher Remedial Action Planned)
Start Date:
Completion Date: 09/02/1987
Fin Budget Src: Remedial
Operable Unit ID: 00

Name: Archive Site
Lead: EPA In−House
Qualifier:
Start Date:
Completion Date: 09/02/1987
Fin Budget Src:
Operable Unit ID: 00

FINANCIAL INFORMATION

No financial information was provided

NO BROWNFIELDS SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

NO SOLID WASTE FACILITIES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

NO HAZARDOUS WASTE TREATMENT/STORAGE/DISPOSERS IDENTIFIED WITHIN THE 1/2 MILE SEARCH RADIUS

HAZARDOUS MATERIAL SPILLS INTRODUCTION

The Hazardous Material Spills in this section are divided into eight spill cause groupings. These include:

Active Spills Section: Spills with incomplete paperwork that may or may not be cleaned up (See Date Cleanup Ceased)

1) Tank Failures
2) Tank Test Failures
3) Unknown Spill Cause or Other Spill Cause Hazardous Spills
4) Miscellanous Spill Causes: Equipment Failure, Human Error, Tank Overfill, Deliberate Spill, Traffic Accidents, Housekeeping, Abandoned Drum, Vandalism and Storms.

Closed Status Spills Section: Spills with completed paperwork that may or may not be cleaned up (See Date Cleanup Ceased)

5) Tank Failures
6) Tank Test Failures
7) Unknown Spill Cause or Other Spill Cause Hazardous Spills
8) Miscellanous Spill Causes: Equipment Failure, Human Error, Tank Overfill, Deliberate Spill, Traffic Accidents, Housekeeping, Abandoned Drum, Vandalism and Storms.

All spills within each spill cause category are presented in order of proximity to the subject site address.

Please note that spills reported within 0.25 mile (or one−eighth mile in New York City) are mapped and profiled.

Between 0.25 mile (or one−eighth mile in New York City) and 0.5 mile, only the following spills are mapped and profiled:

* Tank Failures;

* Tank Test Failures;

* Unknown Spill Cause or Other Spill Cause;

* Spills greater than 100 units of quantity; and

* Spills reported in the NYSDEC Fall 1998 MTBE Survey.

A table at the end of each section presents a listing of reported Miscellanous Spills with less than 100 units located between 0.25 mile (or one−eighth mile in Manhattan) and 0.5 mile. These spills are neither mapped nor profiled.

ACTIVE TANK FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 21 **ENGINE CO. 229 FDNY −DDC** **Spill Number: 9703488** **Close Date:**
76 RICHARDSON STREET BROOKLYN, NY TT−Id: 520A−0047−908

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 558 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: LT MOLINARO − ENGINE COMPANY 229
Spiller Phone:
Notifier Type: Other
Notifier Name: ROBERT COLLIN
Notifier Phone: (516) 499−1085
Caller Name: ROBERT COLLIN
Caller Agency: CHESNER ENGENEERING
Caller Phone: (516) 499−1085
DEC Investigator: ADZHITOM
Contact for more spill info: LT MOLINARO
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/20/1997		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DURING TANK CLOSURE − SOIL SAMPLE HAS BEEN TAKEN AND THEY RECIEVED

POSITIVE PID ON ONE SAMPLE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHITOMIRSKY"
TRANSFERRED FROM Y.KRIMGOLD.

8−3−2005 Reviewed report received by NYSDEC on June 13, 2005. The report stated that free product is present in wells MW−2 and MW−4. Petroleum absorbent socks have been replaced several times in both wells. Also, the report stated that in July 2001, laboratory analysis identified the product as kerosene. In addition, the report stated that the most likely off−site source is the upgradient neighboring property, which was known to have underground storage tanks. A letter was sent to DDC/URS to inform the City that at NYSDEC request, an investigation was performed at the neighboring property (Spill #0130048, 407 Leonard Street). The investigation results showed no signs of contamination and the spill report for that property was closed. Therefore, the Department requested that DDC/URS repeat the fingerprint analysis of the free product in wells MW−2 and MW−4, and investigate alternative sources for the free product contamination.AZ

9−28−2005 Staff received and reviewed a monitoring report from the City's contractor which stated that free product is present in several wells. The report suggested that the most likely off−site source is the up−gradient neighboring property, which has underground storage tanks. Staff responded that an investigation was performed, at DEC's request, at the neighboring property (Spill #0130048, 407 Leonard Street). The investigation results showed no signs of contamination and the spill report for that property was closed. Staff asked the City to repeat the petroleum fingerprint analysis to help determine the source of the product. This analysis indicated that the product is likely kerosene. Although kerosene tanks were never present at the site, NYFD has practice of mixing kerosene and diesel fuel. There is a diesel AST in the basement of the facility. Staff asked Jane Staten (URS)to investigate the possibility of leakage from the diesel AST into the subsurface through underground lines or other conveyances. AZ

9/26/2006 The site was transferred from URS to Greyhawk on January 1, 2006. In July 2006 Greyhawk reported that due to the lack of documentation from the previous CM, Roux performed a reconnaissance visit to the site. Eight of nine monitoring wells were located and gauged. MW−08 was probably destroyed during ongoing construction activities at the neighboring property. MW−04 continues to contain free product at 0.16'. Absorbent socks in wells MW−04 and MW−02 were replaced. AZ

12−07−2006 Staff received and reviewed a monitoring reports from Roux dated September 22 and November 20, 2006. November report states that Gw sampling was not conducted for April through June 2006 because Greyhawk mistakenly considered the spill closed. Free phase (kerosene) was detected in MW−02(0.03') and MW−04(0.23') during July−September quarterly monitoring event. MW−08 could not be located. Roux recommended reduce frequency of gw sampling and reporting from quarterly to semi−annual since dissolved phase remains only in MW−09, continue quarterly gaging of wells, continue using absorbent socks, conduct additional investigation to determine potential sources of kerosene product (work plan will be submitted to DEC), attempt to locate MW−08. DEC concurred. MW−08 should be located or replaced. AZ

12/22/2006 At the meeting with DDC/Greyhawk on 12/12/2006 DEC inquired about the remedial progress at this site. Greyhawk will advance a few borings to resolve this issue. They will submit a work plan. AZ

2/13/2007 An e−mail was sent to DEC/Roux: "Roux recommended reducing frequency of groundwater sampling to semi−annual at this site. Also, Roux proposed that well MW−08 should be located and sampled in their November 2006 Report. As far as I know, MW−8 has not been located. Well MW−8 should be located and sampled. When sampling results from MW−8 are submitted to DEC, frequency of groundwater sampling will be reviewed." AZ

2/14/2007 Telephone conversation with Brian Morrissey on 2/13/2007: Brian informed me that MW−8 was last sampled in 2002 and

exhibited 15 ppb of total VOC. This information was not included in Roux's quarterly report. Based on this information I approved Roux recommendation for semi−annual groundwater sampling. However, due to the presence of free product at this site, groundwater sampling schedule should be restored to quarterly if dissolved phase contamination appears in more wells. An e−mail was sent to Brian Morrissey (Roux). AZ

6/21/2007 Reviewed report for the site dated April 11, 2007, and received on April 26, 2007. Roux recommended conducting additional site investigation to determine potential sources of kerosene. They proposed collecting soil and gw samples from borings in the alley located between the firehouse building and the adjacent property's degreasing pit. No permanent wells were proposed. UST near Leonard Street belongs to what site? I left a message for B. Morrissey (Roux) asking clarification for the work plan. AZ

6/22/2007 Conversation with Brian Morrissey regarding the proposed Work Plan. I rejected the proposed Work Plan since it did not propose any permanent well installations. Also, I consider, that number of soil borings is excessive. Two wells should be installed in place of proposed boring RXSB07−RXSB09. Also, two wells should be installed between the degreasing pit and the potential site of previous USTs. MW−8 should be either located or re−installed. I requested information regarding diesel fill ports, gasoline fill ports and previous USTs depicted on the plan. Do they belong to the Fire Department or to the adjacent property? Roux will submit a revised work plan and the requested information. AZ

2/11/2008 An e−mail was sent to Roux/DDC/VB/Greyhawk: "I have reviewed Semi−Annual Monitoring Report for the above site submitted in November 2007. The report included the revised Work Plan. However, DEC comments were only partially taken into account. DEC requested installation of two wells between potential site of the previous USTs and the degreasing pit. These wells were not proposed by Roux. Also, DEC requested information regarding ownership of the diesel fill ports, gasoline fill ports and previous USTs depicted on the plan. This information has not been provided to DEC. These deficiencies should be corrected and modified Work Plan with the requested information submitted to DEC. AZ

2/12/2008 Conversation w/Brian Morrissey (Roux). Brian suggested installing two wells in the alleyway as the first step in the investigation. After these wells are installed and sampled, a decision will be made by DEC regarding installation of two additional off property wells at the adjacent property as per DEC's previous request. Also, Roux will provide DEC with the information regarding UST locations at EC 229 property and information regarding the ownership of the former USTs as well as diesel and gasoline fill ports in conjunction with the first stage of the investigation. AZ

10−31/2008 An e−mail was sent to Roux/DDC/Greyhawk/V.B.: "I have reviewed Semi−Annual Monitoring Report for the above site for the period of July 2007 to June 2008 and dated August 4, 2008. Based on the report, the additional site investigation, approved by DEC in February 2008, has not been performed. The submitted investigation plan is approved and should be performed without delay. After proposed wells/borings are installed, a decision will be made by DEC regarding installation of two additional off site wells at the adjacent property as per DEC's previous request. According to the PBS records, a 2,000 galllon fuel oil tank was closed in place at the site. A 550 gallon diesel tank is in active status at the site. Locations of these tanks and their fill ports should be indicated on the plan. Also, location of 275 gallon gasoline tank fill ports should be indicated on the plan." AZ

12−21−2009 Additional investigation work plan approved by DEC on February 11, 2008, February (ASIWP) has not been performed. According to Roux it will be performed by the incoming construction management firm. Intermittent kerosene product is observed in MW−4 and MW−02. An investigTION REQUESTED BY NYSDEC (Spill #0130048, 407 Leonard Street) DEC determined that product in MW−2 mnd MW−4 doesn't appear to be from this potential upgradient source. Roux will continue to use absorbent socks. AZ

8−25−2010 An e−mail was sent to LiRo S. Frank: "I have reviewed Site Turn−Over Status Report. Result of the additional investigation which was approved by DEC should be sent to the Department. Well MW−01 could be removed from the sampling program.Wells M−06 and MW−07 should be replaced." AZ

12−21−2010 An e−mail was sent to LiRo S. Frank, V. Brevdo, F. Ashkan: "Dear Steve,
I have reviewed semi−annual sampling/quarterly monitoring and additional investigation report for this site. The report proposed continuation of sampling and adding SVOC analysis to groundwater sampling protocol. Also, report suggested hot spot shallow excavation at boring RXSB−04. These proposals are approved.
LiRo recommended removal of wells MW−01 and MW−07 from the sampling program and reduction of gauging to semi−annual, since product has not been observed since 2008. These recommendations are approved.
The Responsible Party and Contractors are responsible for the safe execution of the Work Plan."

Elevated levels of soil and dissolved groundwater contamination exist at this site. A series of 11 injection wells were installed at the site. PermeOx slurry was injected in each well. Consultants submitted additional site investigation plan which has been approved by DEC. In June 2010 LiRo performed the revised Additional Revised Investigation Plan. Elevated PID readings and petroleum odor was noted in all seven borings mainly between 5 and 15 ft. bgs.VOC and SVOC concentrations exceeded TAGM soil guidance. Contamination is present just above and at the groundwater table interface. LiRo recommended conducting hot spot shallow excavation to remove VOCs in soil. DEC approved this recommendation. AZ

6−28−2011 Reviewed report for the site dated March 31, 2011. Soil samples collected indicate shallow SVOC contamination above and at groundwater table. Soil below gw table do not indicate contamination. LiRo proposed to conduct hot spot excavation at boring RXSB−04 and DEC approved it in December 2010. Free phase product was detected in RXMW−01 (0.01') and MW−04 (0.22') in November 2010. The product was identified as gasoline. Due to the presence of free phase, quarterly gauging will be conducted. Monthly vacuum truck extraction in wells MW−02, MW04, and RXMW−01 will be conducted for a period of 3 months. AZ

1−9−2012 Reviewed semi−annual report dated October 5, 2011. The shallow ho spot excavation approved by DEC on Dec. 21, 2010 in the vicinity of boring RXSB−04 is scheduled for completion in Fall/Winter 2011. The following email was sent to S. Frank/ F. Ashkan and V. Brevdo:
"Dear Steve,
I have reviewed semi−annual/quarterly report for February− September 2011 and dated October 2011. The report stated that measurable product was detected in MW−04 and was ranging from 0.01 to 0.03 feet. Currently petroleum absorbent socks are in three wells.

LiRo proposed reducing groundwater sampling from semi−annual to annual. Due to the presence of free phase product this proposal is rejected. Sampling should be performed semi−annually. Also, LiRo proposed to remove several monitoring wells from the site monitoring program. The site is monitored only twice a year. The wells proposed for removal exhibited VOC contaminants in the past and located in important monitoring locations. Therefore, these wells should be monitored.

LiRo proposed suspending SVOC analysis. This proposal is approved." AZ

12−6−2012 Reviewed semi−annual monitoring report dated June 26, 2012. The report stated that elevated VOCs above RSCO were detected in boring RXSB−04 from 5' to 6'. Free phase product is intermittently reported in wells MW−02,MW−04,RXMW−02. Product removal has been accomplished by both EFR and absorbent socks. LiRo will submit an excavation bid package for excavation in the

vicinity of boring RXSB−04 in the third quarter of 2012. AZ

ACTIVE TANK TEST FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 22 **MOBIL S/S #17−FX9** **Spill Number: 9007766** **Close Date:**
550 HUMBOLDT STREET BROOKLYN, NY TT−Id: 520A−0051−765

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 996 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: MELISSA TACCHINO − EXXONMOBIL OIL CORP
Spiller Phone: (908) 730−3610
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: SCOTT GOTTSCHALL
Caller Agency: MOBIL OIL
Caller Phone: (703) 849−5319
DEC Investigator: MJHAGGER
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/16/1990		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL, GROUNDWATER
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

LINE TEST ONLY, PETRO TITE, LEAK RATE −.011GPH, WILL EXCAVATE, REPAIR & RETEST (REPAIRS BY ALVIN PETROLEUM).

DEC Investigator Remarks:

Spill remediation is being tracked under spill no. 90−07766. See also spill nos. 05−08671 and 07−10898.

11/6/2000: Reassigned from Sullivan to Sigona. PBS records indicate that 14 x 550−gallon, 1 x 4,000−gallon and 1 x 1,000−gallon USTs were either closed in−place or removed from this site. (Sigona)

12/12/2003: Reassigned from Roberts to Harrington (central office) for management. (Rommel)

5/6/2005: Sent letter to Exxon Mobil approving off−site RI work plan. (Harrington)

7/18/2005: Sent letter to Exxon Mobil approving revised RAP. EFR events @ MW−3 and MW−4 will be conducted semi−annually. FS to address dissolved BTEX @ MW−3 will be submitted along with off−site RI report. (Harrington)

10/7/2005: Sent e−mail to Exxon Mobil approving the sensitive receptor survey. (Harrington)

11/28/2005: Sent Exxon Mobil letters approving the SI report and the supplemental SI work plan for the off−site plume delineation. Additional work was required due to the discovery of free product west of McGuinness Boulevard. (Harrington)

7/31/2006: Approved supplemental SI report. Monthly EFR events will now be conducted at wells MW−3, MW−4, MW−11, MW−12, and MW−15A. Work plan for recovery well installation near MW−15 is expected in October. (Harrington)

10/14/2006: Sent an e−mail to Exxon Mobil approving the SI work plan. Plan calls for the installation of six (6) monitoring wells along the west side of McGuinness Boulevard between Bayard and Newton Streets in order to fully delineate and recover the free product observed in this area. (Harrington)

3/2/2007: Sent e−mail to Exxon Mobil approving the UST divestiture and excavation work plan. EM will be removing all USTs, distribution lines, vent lines, hydraulic lifts, and contaminated soil identified during this effort. (Harrington)

4/20/2007: Sent e−mail to Exxon Mobil approving the SI report which documented the off−site work completed along McGuiness Boulevard in support of LPH recovery efforts. (Harrington)

6/22/2007: PM visited the site along with Kleinfelder personnel. Excavation work has been completed. Report expected in the Fall. (Harrington)

10/29/2007: Sent e−mail to Exxon Mobil approving the Tank Excavation Assessment Report. The revised RAP will be submitted in mid−December. (Harrington)

12/4/2007: PM approved the feasibility testing work plan during a site visit with Kleinfelder personnel. SVE/AS and chem−ox injection technologies will be evaluated. (Harrington)

12/13/2007: PM conducted a site visit during monitoring well installation as part of the recently−approved FS work plan. Field

work began on December 10th. (Harrington)

1/15/2008: Kleinfelder encountered LPH in a newly−installed monitoring well on−site during pilot testing efforts. Kleinfelder personnel contacted the PM, who instructed them to call it in as a spill. The spill number (07−10898) was administratively closed by Region 2 personnel. (Harrington)

5/1/2008: PM sent an e−mail to Exxon Mobil approving the off−site subsurface investigation work plan. This effort will begin to fully delineate the free−product plume west of McGuinness Boulevard. (Harrington)

5/6/2008: PM conducted a site meeting with Exxon Mobil's consultant (Kleinfelder East, Inc.). During the meeting, the PM approved the IRM work plan, which calls for excavation of soils in the area of the former dispenser islands. Given that this area is adjacent to McGuinness Boulevard, sheeting and shoring will be required. (Harrington)

6/24/2008: PM conducted a site visit with Exxon Mobil personnel (Drake) and their consultant (Kleinfelder) in order to discuss recent developments. Apparently, Exxon Mobil has been denied further access to the site by the owner thus delaying implementation of the IRM. Additional off−site investigation will be required due to the continued presence of LPH along McGuinness Boulevard. This will involve well installation further west along Newton Street. (Harrington)

9/7/2008: PM sent an e−mail to Exxon Mobil approving the updated version of the IRM work plan. Work plan calls for additional excavation of petroleum−contaminated soils on−site and post−excavation sampling. Work is scheduled to begin on September 15th. (Harrington)

4/3/09 − Haggerty: approved Excavation Report. With this excavation, over 7000 tons of contaminated soil has been removed from the site. My comments were as follows:

1. A "No Further Action" letter can not be granted for just the on−site soils. If the replacement monitoring wells are installed and groundwater meets with DEC approval, a "No Further Action" letter will be issued for the spill 90−07766 and I will re−open spill 05−08671 for the off−site contamination.

2. Resend the Off−Site Investigation Work Plan under a separate cover. Dave Harrington disregarded the 8/29/08 RRAP and therefore I have not been able to review the work plan contained therein. After I have approved it, I will forward the DOT sidewalk permit letter.

3. I have spoken with the Developer's consultant. The Developer's consultant, George Kavrakis, states the layout of the station has been approved and is not subject to change. Therefore, proceed with the installation of the on−site replacement wells within the next 60 days. I also informed him that if the monitoring wells are damaged during the construction of the new station, it will be their responsibility to re−install them. I have attached the site plan for the new station which appears to match the layout provided in your report.

4. I spoke with the BEST Squad Demolition Supervisor who was holding up the redevelopment at the property and wrote him a letter (attached) requesting he allow redevelopment to begin. Once he receives the letter, he states construction can proceed. According to George Kavrakis, once they receive permission from the BEST Squad, construction will begin. Please coordinate with Mr. Kavrakis (516 298 2355)

6/19/09 − Haggerty: had conference call with Ken Drake (ExxonMobil) and Kleinfelder. New station under construction and will not be completed for the next month. Installation of on−site and off−site MW's will be completed at the same time once construction of the new station is complete.

June 2010 − required additional delineation of MTBE plume

August 2010 − received Supplemental Subsurface Investigation Work Plan. Under review

11−4−10 − Austin − Had a discussion with Sally Dewes of DEC/Albany − Sampling at this site recently yielded the discovery of ethanol, indicating that there may be a new release on this site − we agreed that this would be called in as a new spill report, for investigation by Region 2 Spills − end

March 2011 − reviewed SIR and sent comment email requiring work plan to remediate off−site LPH. EFR events over the past 3 years have not reduced LPH thickness

May 2011 − Work plan overdue

June 2011 − approved plan to increase efficiency of LPH removal using HIT events. Also, the new owner had a Spill called in under the his name due to ethanol detections

November 2011 − Feasibility Report due in December

December 2011 − Feasibility Report under review

January 2012 − using VER events. percent level vapors were being collected. Considering this is ~200ft for the site, it appears a plume of product has broken off for the source. Remedial alternatives being evaluated

March 2012 − met with new Project Manager, Heather Cloud, from GES and discussed project. A plume of free product has broken off from the site and is slowly moving across Humboldt. We discussed the fact that the plume will be persistant for years. She requested 2 months to meet internally as to the next step. I told to look for a possible locations for a SVE system shed in the adjacent properties

May 2012 − nothing substantive regarding a solution has been proposed. Conference call required

June 2012 − approved EMs soil boring/sampling work plan along McGuiness where the product has been consistant for years

December 2012 − GES proposed excavating the sidewalk on McGuiness Blvd into the groundwater to remove the product beneath it. EM fully excavated the station and the remaining contamination has detached from the original site. This site requires more thought. Even if they did excavate the sidewalk which a don't believe the DOT would allow, more product will migrate below the sidewalk due to the groundwater flow direction

Map Identification Number 23 **COMMERCIAL PROPERTY TTF** **Spill Number: 1206982** **Close Date:**
498 LEONARD ST BROOKLYN, NY TT−Id: 520A−0277−969

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1253 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: COMMERCIAL PROPERTY
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: TJDEMEO
Contact for more spill info: JEFF MCKENZIE
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/16/2012		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

5000 gal ust

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

ACTIVE UNKNOWN CAUSE SPILLS AND OTHER CAUSE SPILLS IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 24 **SUNOCO SERVICE STATION** **Spill Number: 1011266** **Close Date:**
550 HUMBOLDT ST BROOKLYN, NY TT−Id: 520A−0260−410

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 988 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Other
Caller Name:
DEC Investigator: RVKETANI

Spiller: SUNOCO SERVICE STATION
Notifier Name:
Caller Agency:
Contact for more spill info: VIKI CRETEUR

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/09/2011		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

test data show NEW release/9007766

DEC Investigator Remarks:

This is a new spill at the site of an old ongoing spill case. A newly called in spill number usually means there is a new owner/operator. The old owner is cleaning up the old case and does not want to be held responsible for the new spill. Cross Ref Spill #9007766. Call Kleinfelder to determine why this is a new spill and what is being done to clean it up.

3/11/11−Called Kleinfelder and left a message to the operator to call back.

Case Manager: Viki Creteur (631 281 0612 Ext 220)

10/27/11 − Austin − Transferring this case from Ahmed to Ketani − end

Map Identification Number 25 **JOHN HULEY** **Spill Number: 1205075** **Close Date:**
498 LEONARD ST BROOKLYN, NY TT−Id: 520A−0275−745

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1245 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: EZGY KARAYEL − JOHN HULEY
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: TJDEMEO
Contact for more spill info: EZGY KARAYEL
Contact Person Phone: 7186360800

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/20/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

tank is in place, soil samples confirm contamination

DEC Investigator Remarks:

Sangesland spoke to Ezgy (As−Gee). (See eDocs for Phase 2 Report) She said the property is a 2 story industrial building being sold to a developer who will tear it down for a new residential building. City has placed an "e−designation" on the property because it's changing from industrial to residential. Problem is associated with leaking from a 5,000 gal buried oil tank.
Hydro Tech was hired by the potential buyer and found contamination. Hydro Tech will continue to work on the site and come up with a plan to solve the spill problems and close them out.

Map Identification Number 26 **N 11TH STREET SIDEWALK** **Spill Number: 0750535** **Close Date:**
204−214 NORTH 11TH ST BROOKLYN, NY 11211 TT−Id: 520A−0049−156
MCCAREN MEWS

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1810 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name:
DEC Investigator: SFRAHMAN

Spiller:
Notifier Name:
Caller Agency:
Contact for more spill info:

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/02/2007		UNKNOWN	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

P.W Grosser installed six monitoring wells as part of oil seepage investigation.Free product was encountered in one of the wells on N 11th street,unsure where it is coming from.Other wells were free of petroleum contamination.

DEC Investigator Remarks:

07/10/07 As per discussion with RSE and Jeff Vought of DEC, this new spill case has been created to open a PIN project and perform investigation by a state funded contractor.(SR)
07/16/07 I met with National Environmental at the site and explained the site's current situation to Bruce Beck, handed him over previous investigation data.National Env. will pprepare a new investigation work plan,will be executed after DEC's approval.(SR)

07/17/07−Vought−Meeting held with DEC Nagi, DEC Austin, DEC Brevdo, DEC Sun, DEC Vought, DEC Karwiel and DEC Cruden to request permission to use non−lowest bidder contractor due to prior performance issues with National and high visibility of site to surrounding public. Permission granted to use second highest bidder (Envirotrac) by DEC Albany and DEC Nagi.
07/20/07 Site meeting on 07/23/07 at 11:00 AM with Envirotrac. Jeff vought will attend the meeting on behalf of DEC.

07/23/07−Vought−As per DEC Austin, DEC requires: 1)delineation via installation of semi−circle of monitoring wells around MW1 including one well in street and two in sidewalk 2)groundwater monitoring and sampling from all onsite and offsite wells. Site visit with EnviroTrac (Dave Lorthior) and Vought provided copies of all previous reports on CD, copies of spill report, contractor work authorization form, site plan and discussed scope of work. On site is six story building under construction will

full scaffolding along N. 11th Street. To perform scope of work, contractor must both get a sidewalk permit and a street opening permit. Note that gas line may be immediately adjacent to curb and water and or sewer run down N. 11th Street. Vought discussed scope of work with Austin who required that markouts be performed and Schwatz be contacted with respect to date of scaffold removal. Vought called PW Grosser (Kris Almskog 631−589−6353) and left message to return call. Once schedule of scaffolding is determined , notification will be made to EnviroTrac for markouts to ensure that they are valid.

To consider: Sampling at the the former UST location was never considered and never reported. Furthermore the location of the fill line and the supply return lines to the boiler were never known and no tightness testing or information is available in the file. Project manager may want to consider investigation on sidewalk adjacent to tank at most likely location of former fill line. Project manager may want to consider submission of documentation of soil sampling during UST removal and tightness testing data and former fill line location.

07/31/07−Vought−As per DEC Austin, DEC requires: 1)delineation via installation of semi−circle of monitoring wells around MW1 including one well in street and two in sidewalk 2)groundwater monitoring and sampling from all onsite and offsite wells. Vought also will: 1)send notification to PW Grosser for collection of split samples and or witness to boring 4)Send email to envirotrac with scope request notification with status of street opening permit. Vought spoke with DEC Austin and as per Austin if wells show product then further delineation will be performed in second phase. Vought sent email to Envirotrac with requirements and also cc'd PW Grosser (Almskog).

08/1/07−Vought−Called:

Issac Schwartz
Cell(917) 282−6071
office:(718)218−8330

Dave Yudelson (Sive Paget)
Cell (917)295−6449
Office: (212)421−2150
D.Yudelson@sprlaw.com

Kris Almskog
Office: (631)589−6353
KrisA@pwgrosser.com

Vought sent email to above, DEC Austin and Envirotrac Lorthior requesting Lorthior to submit possible drilling dates after investigation into sidewalk permit, street opening permit and markouts.
8/013/07 Rec'd email from Envirotrac(Tom Bosshard).DOT permit for well installation is delayed due to a bonding issue with the NYC DOT.Envirotrac also looking into subcontracting the permit expediting service to another company that may already have DOT bond approval.As per request, I wrote a letter to DOT requesting to expedite the permit process.(SR)
08/30/07 I spoke with Frank Jiran of Envirotrac regarding the DOT permit.The original project manager Dave Lorthior is on vacation.The tentative date for well installation was set for September 5th,07, provided that the permit will be secured by this time.As of now, the permit is not available yet.(sr)

09/05/07 Well installation took place today.DEC Jeff Vought and Sharif Rahman were present at the time of well installation.Two

wells were installed on side walk,on both sides of existing MW that collecting oil in it.Two soil samples, one at 5−7’ and other one at 7−9’ were collected for analysis.At 9−11’ free product was encountered.Monitoring well on street could not be installed due to presence of utility lines closely located to each other.PW Grosser rep Richel also took soil sample, on behalf of the developer(sr).

09/12/07 As per RSE’s recommendation one well was installed on N.11th street as part of oil source investigation.According to EnviroTrac project manager Dave Lorthior, no soil contamination observed above water table.Gross contamination was found at 1.5’ below water table beneath the clay layer.One boring was advanced at approximately 14’ east of MW−1, got refusal at 7’.Gross soil contamination observed at 6−7’.Samples wers taken for analysis.PW Grosser rep also collected sample from this one.I left the site at that point, Envirotrac will do more on the side walk today and Friday, 14th.I called Kris Almskog of PW Grosser and requested him to send DEC the photographs of the site at different stages of soil excavation taken from different area of the site including the UST location.(sr)

09/27/07 Two new wells and two soil borings near the existing wells were advanced on north side N 11th street today.Gross contamination observed below water table between 10−15 ft.(SR)

03/07/08 Department’s letter requiring aggresive contamination removal from underneath the sidewalk went out to P.W.Grosser Consulting on 02/12/08.The letter asked to perform removal of contaminated soil and free product from underneath the side walk by excavating, as technically practical and feasible.Letter was approved by RSE and DLA.We had a meeting with DEC Vought, RSE Mr. Austin, John Urda and DEC sharif Rahman in RSE’s office and discussed P.W Grosser’s response regarding their proposal to VEFR the wells only, instead of excavation and removal of gross contamination underneath the sidewalk.RSE Mr. Austin opinioned that due to poor transmitivity of the oil, quantity of accumulation to the wells is also nonsignificant. Therefore, without excavtion,VEFR will not work well to recover free product from underneath the sidewalk. RSE recommended to contact Key Span Energy to study feasibility of excavation near their gas main to remove contamination.A meeting with property owner’s consultant, counsel was scheduled on 03/13/08 at DEC office to discuss about remedial strategy.(sr)

03/17/08 A meeting was held on 03/13/08 at DEC region 2 office with P.W. Grosser(Kris Almskog),Proper owner Issac Swartz and Mr. Firetog.On DEC side− John Urda, Randall Austin,Jeff Vought and Sharif Rahman.DEC explained that due to the fact that ground water flow direction is from the site to the north and an UST that had oil in it with strong evidence of oil release to the ground, the site 204 N 11th Street is the most potential source of this oil contamination and there was no other source found.It was decided that PW Grosser will prepare revised work plan to excavate and remove contamination from the sidewalk after consulting and keeping KeySpan in the loop.KeySpan has to be notified and clearance is needed from them in order to excavate near gas line.KeySpan Energy’s contact info was given to P.W. Grosser.As per RP’s request to close out this spill, DEC decided to close Spill 0750535 after the cost of investigation is paid by Mccarren Park Mews.Issac Swartz agreed to pay the bill for investigation done by Envirotract.Total cost of the investigation was provided to John Urda for dispatching to McCarren Mews.It was also discussed to analyze ground water quality once excavation and removal of gross contamination is completed.
(sr)

05/27/08 I called Dave Lorhtior(EnviroTrack) and requested him again to send DEC a confirmation letter when the bill for PIN job is paid by McCaren Park Mews so that I can request DEC central office to take off the PIN number and spill 0605974 can be closed as per the stipulation agrement.Spill#0750535 will remain open until the remedial work is completed as per the Corrective Action Plan(CAP).(sr)

06/02/08 I spoke with Envirotract’s project manager Dave Lorthior regarding the bills, he said they have been paid and he would

send us the confirmation by today. Erin Gaus from Test America(Lab) also told me the same.Once we receive the confirmation letter, this spill case will be closed.I contacted with Kris Almskog of P.W. Grosser to get the update on the sidewalk excavation job.As per Kris, A.B. Environmental was hired to perform the work, application for side work permit has been submitted to NYC DOT.Kris also indicated that as part of IRM, wells will be monitored today.(sr)

06/06/08 Rec'd letter/e−mail from Envirotract and Test America confirming that the invoices were paid in full and there is no other bill unpaid associated with spill#0750535/PIN 04394. As per Stipulation agreement,R2−20080502−236 and consent from RSE and DLA(John Urda), spill#0605974 is closed.
** Additional remedial activities will be carried out under Spill#0750535** (sr)

** 06/18/08 I stopped by the site and observed some soil excavation taking place at the south west side proposed parking lot area, soil has black stain and it has odor.I suggested to take soil samples from the bottom of the excavation in a agrid pattern and perform air monitoring today and after. P.W Grosser(Chris Almskog)sending crew to take samples today, as per our conversation today.I also suggested Isaac Swartz to cover the stockpiled soil in order to prevent the odor from spreading.Chris Almskpg indicated that they are working with Keyspan and Contractor A.B. Environmental to schedule the excavation and removal of contaminated soil from under N 11th street sidewalk.(sr)**

06/23/08 I responded to the site with DEC Hasan Ahmed.P.W.G.C rep Jennifer Lewis, AB Environmental, National Grid(KeySpan) rep Douglas Laregina were present at the site.AB Environmental started excavation at MW−1 location.With Keyspan's approval the excavation dimension was approx 9'deep,2'wide and 4' long along N 11th Street.Free product found in the excavation hole that was sucked out by A.B Environmental.Excavation will be back filled today as there is safety issues involved, but will be reopened for more excavation and installation of recovery well.I told PWGC and Issac Swartz that actual dimension of the excavation for efficient and safe recovery of the soil/oil contamination must be determined by a licensed Professional Engineer as per DEC's letter Feb 12'2008.MW−11 was checked for product by a stick and free product was found.MW−12 and MW−4 are also the potential location for free oil contamination.(sr)

06/26/2008−Hasan Ahmed−DEC Ahmed and Vought went to the site. Kevin Waters from PWGC , AB Environmental, a representative from National Grid(KeySpan) were present at the site. AB Environmental started excavation at MW−12 location.With Keyspan's approval the excavation dimension was approx 7.5 ft deep,2' wide and 5' long along N 11th Street. Free product was noticed in the excavation that was vacuumed out by A.B Environmental. Excavation would be back filled today. PWGC would replace the existing MW12 with a 6" recovery well. Pictures were taken of excavation and free product in groundwater.

06/30/08 I spoke with Chris Almskog today and asked him the status of the excavation.Chris indicated that PWGC and A.B. environmental went there on 06/26/08 and 06/27/08 an dexcavation to other places took place with supervision of a licensed professional engineer, in order to determine the extent of excavation without compromising the existing utility lines.Chris also indicated that PID monitoring was done while excavation and removal of contamination going on to identify air quality deterioration.I told Chris Almskog to take end point samples before backfilling, as I was told to do by RSE.I also asked about additional excavation near MW 1, most contaminated area on N 11th−Chris said that he would check it with A.B. Environmental and get back to DEC with written explanation from a P.E if additional excavation was not possible due to structural/utility issues.(sr)

07/03/08−Vought−Site visit by Vought as per DEC Austin. Site backfilled and crew onsite placing rebar for foundation and concrete pouring. No observable soil contamination via olfactory and visual however soil also was also very uncsolidated suggesting fresh backfill. No odors emanating from site. Noted beginning demolition of adjacent site at 320 Roebling.

08/28/08 Rec'd side walk excavation report from P.W. Grosser.Due to the presence of two high pressure gas main beneath the sidewalk,a KeySpan/National Grid rep was on site and provided guidance during all soil disturbances.Soil in the vicinity of MW 1, MW 4, MW 11, MW 12 were removed utilizing Guzzler Truck down to approx. one to two ft below the water table. Free floating product was also removed from the excavation area.Excavation limits were determined based on field observations and limitation imposed by onsite National Grid rep based on the buried gas main.On 06/23/08 excavation around MW 1 began and continued on 06/26/08 to the west of MW 1.Upon excavation of soil below ground water,LNAPL was observed and removed four times using a pump truck to skim the surface of the ground water.A 6" monitoring well was installed to the west the that area .Excavation near MW 12 was approx. 7X3' and 9ft deep, followed by 6" monitoring well installation.Excavation near MW 11 was 8X3' and near MW 4 was 5x2.5 ft.MW was installed after each excavation.Bi monthly monitoring of the wells will continue untill no measurable product is identified for three consecutive monitoring events in each individual wells.Product will be removed utilizing hand bailers and absorbent pads as needed.Quartely status report will be sent to DEC.(sr)

09/24/08 I was at the site this morning when P.W.Grosser rep monitoring the wells. MW−1 had 3" of free product.MW−7/MW−8 did not have any product in it. I left the scene while P.W. Grosser rep performing the measurerent of the other wells.(sr)

12/12/08 3rd quarterly report rece'd on 11/22/08.MW 15,RW−12, MW−1,MW−11 showed presence of free product(0.01ft−0.20ft). Product thickness decreased to some extent. I called PW Grosser and recommended to develop the wells for greater recovery of the product. I also asked for recent data table for the well monitoring result.(sr)
** Next quarterly report will be available in February'09**

01/13/09 Rec'd email from P.W Grosser(Kris Almskog)indicating diminishing trend of free product in MW−1(0.01' on 01/09/09)and RW−12(0.08' on 01/09/09).A total of 13 gallons product has been removed this month.(sr)

02/26/09 Spoke with Kris Almskog and told him that aggresive recovery has to be performed at this point via developing wells and VEFR.Kris Almskog will talk to the property owner and let DEC know about his response.(sr)

05/07/09 Spoke with Issac Swartz and asked him to perform the product recovery in our presence by a health and safety trained crew and the waste has to be disposed properly.I also asked him to develop the well on order for better recovery of the product from wells.(sr)

08/04/09 P.W Grosser no longer represents 204 N 11th owner, and has not been doing any remediation work due to non payment. I spoke with Issac Swartz this morning and he told me that the bank(lender) may take over the property, in that case bank will be responsible to carry out the remedial activities. Mr Swartz will let us know about the bank's decision soon.(sr).

02/03/10 Mccaren Park Mews LLC owns the property now(Capital One Bank did not take over).Mr. Schwartz told me few days ago,P.W. Grosser will be rehired to continue the remedial works.Spoke with Kris Almskog(P.W. Grosser)this morning, P.W. sent a proposal to MacCaren Mews with scope of remedial work, waiting for approval.Left a messege for Mr. Schwartz asking the status of the proposal.(sr)

02/23/10 MW monitoring took place on 02/19/10 morning by P.W Grosser.(sr)

05/20/10 PW Grosser no longer representing McCarren Mews LLC. Left messege for Mr. Issac Swartz asking the status of the wells.Recent monitoring data from 04/02/10 showed RW−12(0.16 ft), MW−1(0.02 ft)product.(sr)

03/04/11 Rec'd monthly Well gauging and product recovery data for October 2010 to December 2010.During the fourth quarter of 2010, measurable product was found in wells MW−1, MW−8, MW−13, RW−11 and RW−12.Approx 5 gallons of product have been recovered during the fourth quarter of 2010.(sr)

Map Identification Number 27 **MOBIL** **Spill Number: 8908110** **Close Date:**
51 KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0044−672

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1825 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: SUNOCO S/S − BKLN−A
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name: MR KENNY
Caller Agency: NYFD
Caller Phone: (718) 389−2491
DEC Investigator: MJHAGGER
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/15/1989		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

DURING EXCAVATION OF TANK CONTAMINATED SOIL DISCOVERED IN PITS − PUMP−ING CONTAMINATED SOIL & WATER OUT OF PIT INTO STREETS − DEP RESPONDED & FOUND ONLY CONTAMINATED SOIL & SLIGHT SHEEN IN TRENCH.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"

12/10/2003 Reassigned from Tipple to Sun.

11/7/05: Project reassigned from Sun to Andersen. Sent letter saying investigation was required by 1/2/06.

12/6/05: Letter returned to sender, unclaimed. USPS wrote the address 159−59 78th street on the letter, instead of the address I sent it to: Donato Passerella 159 78th Street, Queens, NY 11414.

1/23/06: Resent letter to 57 Kingsland Realty Corp., 57 Kingsland Avenue, Brooklyn, NY 11211 Attn: Hussein Mustafa, as per the current owner on Property Shark.

2/3/06: An attorney for Mr. Mustafa called. She said that 51−57 Kingsland is owned by Mr. Mustafa and that 61−65 Kingsland is owned by Denato Passarella, and that the gas station is on 61−65 Kingsland. She will fax me a letter confirming this from the Department of Finance. Need to resend letter to Denato Passarella at 61−65 Kingsland. Changed address on spill report to 65 Kingsland Avenue.

2/9/06: Letter was returned. Resent letter to:

Donato Passarella
Kingsland Service Station
51 Kingsland Avenue
Brooklyn, NY 11211

2/13/06: Spoke to John Passarella (related to Denato Passarella) (718−389−6133). He said the correct address is 51 Kingsland Avenue. Changed address on spill report back to 51 kingsland. He said that Mobil owned the tanks at that time, but that he owns the property and the gas station. All old tanks were removed and new tanks installed in 1990. John Passarella will ask the old owner if they have and documentation of the tank closures.

4/5/06: ExxonMobil contact: Melissa Tacchino, 908−730−3610, melissa.w.tacchino@exxonmobil.com. Called Melissa Tacchino and left her a message. She called back and said that EM has never operated or owned this property.

4/13/06: Spoke with John Passarella and he confirmed that Mobil owned the tanks in 1989 and were in charge of the tank excavation.

7/26/06: Refered to NYSDEC Legal Department.

4/28/08 − Carlson: Spoke to John Passarella (718−389−6133). They received a letter from the legal division. They requested a 60 day extension to investigate this spill.

12/23/09 − Carlson: Received investigation work plan from ExxonMobil, dated 12/7/09. Six borings/monitoring wells proposed. Issued approval letter.

Ken Drake
ExxonMobil Environmental Services

U S Retail Remediation Project Manager
297 Route 72 W
Suite 35, #285
Manahawkin, NJ 08050−2890
kenneth.j.drake@exxonmobil.com

5/25/2010 − Carlson: Performed site visit. They were hand clearing boreholes. Boreholes will be completed as wells starting tomorrow (three days expected).

5/27/2010 − Carlson: Spoke to Joel Adrian. Product found in one of new wells. Product will be fingerprinted and tested for ethanol. If it is new product a new spill will be called in.

9/9/2010 − Carlson: Received phone call. 2 ft of product present. Product will be ID'd again.

9/15/2010 − Carlson: Spill No. 00−02006 consolidated with 89−08110. Reveiwed Subsurface Investigation Report. Six monitoring wells installed. Product present in three wells. Product ID'd as weathered gasoline. Legal Division is negotiating a consent order. Case may be referred to central office.

11/2/10 − EM did foil and complained they did not receive TTT reports. Station is delinquent since January, yet TTT may not be required. I can not tell from registration, which has omissions and questionable entries. Moses found registration deficiencies during recent PBS inspection and told Donato to correct them pronto. There is even uncertainty over the correct street address for the station (see the beginning of these notes). Moses would know if the station has a Veeder−Root doing LD on dw UST and dw pipes. (Breen)

3/2/11 − Haggerty: assumed project management from Andre Obligado

March 2011 − Spoke with EM, they agreed to perform SI. Work Plan approved

April 2011: Kleinfelder still working on Access Agreement with property owner

May 2011 − Owner reluctant to sign Access Agreement. He called me because he states that shutting down his station for 6 days would do irreparable financial damage. I explained that if he doesn't allow EM on the property to perform the investigation, the state will be forced to. The off−site MW's will be installed in June

June 2011 − no resolution between the owner and EM has been reached concerning access to perform the work

August 2011 − according to both the station owner, John Passeralla (347−610−3088) and EM, settlement for lost business is close and access should be granted soon

November 2011 − Access Agreement signed between owner and EM.

December 2011 − 6 new MW's installed on−site

February 2012 − SIR for the on−site investigation due in mid March. Product encountered on−site. EM sent out Vac truck

April 2012 − reviewed and commented on SIR for on−site well installation. The Deptartments position is that EM is responsible for the gasoline contamination and the current owner is responsible for the diesel contamination. John Urda is pursuing a CO with EM

June 2012 − PM required monthly Dual−Phase extraction events until a RAP is submitted.

August 2012 − EM fingerprinting report under review. Left message with Attorney, John Urda. The report implies EM is partly responsible but also states that the gasoline the owner is selling contains MTBE and is breaking the law

December 2012 − A RAP was submitted which includes pilot testing to determine the best method. Also spoke with Julie de la Fuente at Kleinfelder. She states that EM is considering excavation as long as the owner would agree. They asked for 30 days to submit the CAP and the extension was approved 12/26/12

Map Identification Number 28 **COMMERCIAL PROPERTY** **Spill Number: 0703695** **Close Date:**
454 DRIGGS AVE BROOKLYN, NY TT−Id: 520A−0038−156

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1930 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: DAVE YUDELSON − COMMERCIAL PROPERTY Spiller Phone: (212) 421−2150
Notifier Type: Local Agency Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: vszhune Contact for more spill info: DAVE YUDELSON Contact Person Phone: (212) 421−2150

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/29/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

RAPHAEL KATENI FROM DEC REGION 2 OBSEVED TANKS BEING REMOVED SEVERAL MONTHS AGO WITH NO PROBLEMS, RECENT SOIL SAMPLES SUGGEST

CONTAMINATION: RAPHAEL KATENI WAS ADVISED ROUGHLY 1/2 HOUR AGO:

DEC Investigator Remarks:

6/29/07 − Raphael Ketani. The site is at the corner of 12 Street and Driggs Avenue in Brooklyn. It is a vacant lot that had 2 tanks in a vault. The tanks were pulled many months ago and contaminated soil was found. Otherwise, there are no other significant issues with the site.

The PBS registration is for 432 Driggs Avenue (one of the alternate addresses). The PBS is #2−282464. A 3000 gal. tank with #2 oil was closed in place on 12/1/69. (I had thought I saw 2 tanks during my site visit months ago.)

The site is block and lot 02291 and 0017. The owners are 432 Driggs Avenue Corp., 432 Driggs Avenue, Brklyn, 11211−1116. Other listed owners are Edward H. Freiberger, 9 Prospect Park West, Brklyn., 11215, and Gary R. Goldberg, 11 Woodlawn Avenue, Great Neck, NY, 11023.

The attorney for the owners is Dave Yudelson (212) 421−2150/cell (917) 295−6449 at Sive Paget & Riesel, P.C., 460 Park Avenue, NY, 10022−1906.

7/16/07 − Raphael Ketani. Mr. Yudelson called me. Soil samples were taken in the vault area and they came back with oil contamination. He said that the parking lot has the tank vault area amd it will be dug up, and end−point samples taken. I told him I wanted to see the site when everything is dug up and fresh soil is exposed. He said that there is a small building adjacent to the site and this will also be knocked down. He added that I will be called to see the site once the soil and building are removed.

10/2/07 − Raphael Ketani. I tried to contact Mr. Yudelson, but could only leave a message.

10/3/07 − Raphael Ketani. I received an e−mail from Mr. Yudelson stating that DEP just gave permission to do the digging and that he will let me know when they will start.

11/28/07 − Raphael Ketani. I tried to contact Mr. Yudelson, but could only leave a message.

Mr. Yudelson called me back. He said that they are waiting until they get all of the building plans before any work takes place. The documents have to be submitted to the City before anything can happen.

1/9/08 − Raphael Ketani. I tried to contact Mr. Yudelson at (212) 421−2150, but could only leave a message.

1/10/08 − Raphael Ketani. Mr. Yudelson sent me an e−mail that the owner is presently demolishing the building and will begin excavation in the next 3 weeks. He will let me know when the excavation starts.

4/8/08 − Raphael Ketani. I tried to contact Mr. Yudelson, but could only leave a voice mail on his cell (917) 295−6449.

4/17/08 − Raphael Ketani. Mr. Yudelson called. He said that excavation at the site will probably take place in 2 to 3 weeks. He said that getting the permits from the City was holding things up. The financing for the project will also come along in 2 to 3 weeks.

8/18/08 − Raphael Ketani. The case is being prepared for transfer due to a case realignment within the unit. The case manager needs to make followup calls to check on the progress of the investigation and remediation. The DEC needs to receive the investigation/remediation report and the revised PBS registration for two tanks.

11/18/11−Vought−Received email from EBC Sosik that "My understanding was that DEC was going to close the spill on this one. Its still shown as open on the database. Please advise. Thanks." Vought replied that " must admit this may be one of the sites that I assisted Veronica Zhune (who is the current PM) on. Please remind us of the site status and any discussions you, possibly I and Veronica had. I checked the Spill notes and no mention of prior conversations were noted so please refresh us'. Vought cc'd DEC Zhune on reply.

08/22/12− DEC−Jeff Vought, DEC−Veronica Zhune and OER− Shaminder had a conference call to discuss futher actions to this site. Shaminder will sent the Remedial Action Plan to DEC and the NYCDOH for review.

08/28/12− Hannah Moore sent the Remedial Action Plan dated 02/15/12.
the Department has no objections to the Remedial Action Work Plan prepared by Environmental Business Consultants dated February 15, 2012. After discussion with Randy, the Department will be keeping the spill open until we receive a Remedial Action Report (including the confirmation soil sample analyticals) as per Path 1 of Addendum to the MOA between DEC and OER.

Map Identification Number 29 **PROPERTY** **Spill Number: 0503901** **Close Date:**
55 ROEBLING ST BROOKLYN, NY TT−Id: 520A−0044−434

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2084 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	RACHEL ATAMAN − PROPERTY	Spiller Phone:	(631) 462−5866
Notifier Type:	Local Agency	Notifier Name:	RACHEL ATAMAN	Notifier Phone:	(631) 462−5866
Caller Name:	RACHEL ATAMAN	Caller Agency:	HYDRO TECH ENVIRON.	Caller Phone:	(631) 462−5866
DEC Investigator:	SKCARLSO	Contact for more spill info:	RACHEL ATAMAN	Contact Person Phone:	(631) 462−5866

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/30/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DOING SAMPLES. CLEAN UP IS NOT IN PROCESS.

DEC Investigator Remarks:

gasoline contaminated soil

need to track down the property owner and then prepare/send a contaminated soil letter.

11/21/05 − Mr. Ted Firetog, Attorney of owner which is Dekalb Aquisition Entity called. He said they never got any letter from DEC. He aslo mentioned a report was given to Ed Rossan when Ed was out at the site for inspection on July? I requested Mr. Firetog to submit the report to me for review. − KST

12/2/05 − Mr. Firetog fax a letter requesting closure. I called him back and asked for the report again. He said he will eamil to me by Monday. − KST

12/8/05: Case transfered to Andersen. Reviewed above noted Waste Characterization Report. No Furthur action letter sent. Low level contamination due to old fill material. Acetone present probably from laboratory analysis.

12/29/05−Vought−Received message from Jack Eisenberg (917−494−9097) regarding status of spill. Vought referred call to DEC Andersen.

05/17/07−Vought−New File review by Vought due to possible concerns that this site contributing to contamination at open spill #068858 at 234 North 9th Street.

Waste Characterization Report (PW Grosser)−12/5/05. 24 samples collected beneath concrete slab "to characterize soil quality". Two samples from each boring were collected. "...it is our understanding that the purchaser intends to excavate the entire site to a depth of twelve feet". Soil analyticals show: 220ppb benzene(WC−03 8−12’bg), 210ppb benzene(WC−11 8−12’bg), 1700ppb xylene(WC−12 2−4’bg), 87ppb benzene(WC−12 8−12’bg).

Remedial Action Plan (PW Grosser)−March 2006. Site formerly contained three gasoline USTs as per Sanborn maps, and one 1500−gallon fuel oil UST as per Phase I. Collection of 32 soil samples and five groundwater samples via installation of twelve

soil borings. Depth to groundwater is approximately 8−12’ below grade. Vapor barrier installation specifications included. Remedial action plan calls for excavation of soil in two areas of concern. and excavation up to a depth of ten feet. Closure Report will be submitted once items in Remedial Action Plan are completed.

Subsurface Investigation Report (PW Grosser)−3/27/06. 14 soil borings performed and Soil analyticals show: 1100ppb benzene(SB1 12−16’bg), 1700ppb xylene(Sb1 12−16’bg), 5500ppb tert−butylbenzene(SB1 12−16’bg), 1400ppb benzene(SB2 4−8’bg), 13000ppb xylene(SB2 4−8’bg), 51000ppb tert−butylbenzene(SB2 4−8’bg), 10000ppb toluene(SB2 4−8’bg), 220ppb benzene(WC−03 8−12’bg), 210ppb benzene(WC−11 8−12’bg), 1700ppb xylene(WC−12 2−4’bg), 87ppb benzene(WC−12 8−12’bg). Groundwater analyticals show: 660pp benzene(GW−01 20−24’), 170ppb toluene(GW−01 20−24’), 270ppb ethlybenzene(GW−01 20−24’), 340ppb xylene(GW−01 20−24’), 420ppb napthalene(GW−01 20−24’), 3200ppb benzene(GW−02 14−18’), 2200ppb toluene(GW−02 14−18’), 270ppb ethylbenzene(GW−02 14−18’), 1600ppb xylene(GW−02 14−18’), 3900ppb napthalene(GW−02 14−18’), 37ppb benzene(GW−03 18−22’bg), 7ppb ethylbenzene(GW−03 18−22’bg), 15ppb xylene(GW−03 18−22’bg), 170ppb napthalene(GW−03 18−22’bg), 69ppb benzene(GW−04 20−24’bg), 11ppb toluene(GW−04 20−24’bg),600ppb ethylbenzene(GW−04 20−24’bg), 86ppb napthalene(GW−04 20−24’bg), 470ppb benzene(GW−06 15−19’bg), 9ppb toluene(GW−06 15−19’bg), 11ppb ethylbenzene(GW−06 15−19’bg), 46ppb xylene(GW−06 15−19’bg), 110ppb napthalene(GW−06 15−19’bg). Slight petroleum odor and sweet chemical odor noted in boring logs. Vought referred new information to DEC Carlson for possible spill reopening.

5/17/07: Spill reopened. Called DEP Project Manager and left message :
Terrell Esesen
NYCDEP
59−17 Junction Boulevard
Flushing, NY 11373
Phone: 718−595−4473

Called PW Grosser project manager and left message:
Kris Almskog: 631 589 6353, krisa@pwgrosser.com

Spoke to Terrell Esesen. DEP issued a notice to proceed with redevelopment. He has not heard anything since. A Notice of Satisfaction (required for a building department CO) has not been issued. Indoor air sampling is required for a notice of satifaction. CC DEP on correspondence.

Spoke to Kris Almskog. The building was demolished. Excavation was not started yet. Split samples were collected in coorination with spill 068858. He will send info on split samples and an update on redevelopment.

5/18/07: Sent letter requiring endpoint sample collection, a RAP addendum with the location of excavation and a workplan for groundwater treatment, delineation north and south of the planned building.

5/21/07: Spoke to Kris Almskog. Hot spots were already excavated. Enpoint samples were not collected. Test pits will be dug to find to collect soil samples at the depth that was excavated. Will submit site plan with proposed well locations. Will submit RAP after well installation. Test pits expected to be dug on Friday. Footing have been installed. Vapor barrier installation planned in the next couple of weeks.

6/6/07: Spoke to Kris Almskog. Test pits were dug in the areas excavated, endpoint samples were collected at the depth that was excavated. Wells will installed soon. Some foundation work has been completed.

6/20/07: Emailed Kris Almskog to followup on status.

6/22/07: Received email from Kris Almskog:

"Due to changes in surface elevations due to construction activities, groundwater was observed at approximately 8' BGS at SP−01 and 10' BGS at SP−02, at the time of the sample event. Because of a slight staining in the soils in the SP−01 7−8' sample, a second sample was collected from 10−11' BGS (below the water table). Results are summarized in the attached table. VOCs in the endpoint samples from this round of sampling were all below NYSDEC RSCO, with the exception of 4−Isopropyltoluene in SB−02. This is a significant decrease when compared to the results detailed in the March 27, 2007 Subsurface Investigation Report.
Due to site conditions due to construction, the installation of the monitoring wells was temporarily postponed. It is estimated that the wells will be installed in approximately 2−3 weeks. Following installation and collection of gw samples, a report detailing the soil endpoint and gw sampling results will be prepared and submitted.
As detailed in the March 2006 RAP, there will be no living space on the first floor of the finished building, just parking and a recreation area, and a 20 mil HDPE vapor barrier will be installed beneath the buildings slab. The vapor barrier and the slab will be installed next week. Once access is available, we will install the 3 monitoring wells detailed in our work plan."

6/25/07: Performed site visit. Pilings were being installed. Pilings installed to 8 ft, (10 ft for elevator pit). Vapor barrier in rear portion will be installed this week.

6/29/07: Received email from Kris Almskog indicating that the slab was not yet installed, well installation tentatively planned on July 13, requested additional letter with well locations for DOT permit.

7/2/07: Sent letter with specific well locations for DOT sidewalk permit.

7/12/07: Called PW Grosser to confirm well installation date. Well installation delayed for DOT sidewalk permit.

8/9/07: Left phone message for Kris Almskog to followup on well installation/sampling.

8/13/07: Received phone message from Kris Almskog. Three wells were installed. They will be sampled and the results submitted.

9/21/07: Left voice message for Kris Almskog to followup on update report.

10/12/07: Left voice message for Kris Almskog (cell: 516−807−6899) to followup on site status and update report submission.

10/18/07: Reviewed subsurface investigation report. Soil samples collected from two test pits at depth of excavation in hotspots. No VOCS except isopropyltoluene. SVOCs that are likely from fill. Four monitoring wells installed. Max BTEX 2760 ppb (MW4), MTBE ND. Sent letter requiring RAP for groundwater treatment, quarterly monitoring, and submittal of indoor air sampling results that is required by DEP.

3/4/08: Reviewed letter dated 2/8/08. Letter concludes there may be an off−site source to the east, although the property to the east is residential. Spoke to Kris Almskog, requested that an additional well be installed to the east, on the sidewalk.

3/5/08: Issued a letter requesting an additional on−site well and an additional off−site well.

3/31/08: Received phone call from Ted Firetog following up on site status.

4/2/08: Reviewed well installation report dated March 19, 2008. Report did not include boring logs or gauging data. Spoke to Zeb Youngman, he will send data.

4/3/08: Received phone call from Ted Firetog following up on site status.

Theodore Firetog
Attorney and Counselor at Law
111 Thomas Powell Boulevard
Farmingdale, NY 11735−2251

Received boring logs, well construction logs, and gauging data. Groundwater flow is south/southwest.

4/15/08 − Carlson: Sent letter requiring a well on the south side of N 8th street, and quarterly gauging, sampling, and reporting.

5/8/08 − Carlson: Spoke to Ted Firetog. He proposed waiting to install an additional well until after the next quarterly sampling period. He will offer recommendations on well installation in the next quarterly report.

8/28/08 − Carlson: Reviewed Quarterly Report dated July 28, 2008. TVOCs 3,421 ppb in MW4. The groundwater flow direction is unclear. Sent letter requiring delineation workplan by 9/28/08. Additional wells are required to confirm groundwater flow direction and to delineation petroleum groundwater impact.

12/8/08 − Carlson: Spoke to Ted Firetog. An additional well is still required upgradient to confirm the possibility of an off−site source.

1/14/09 − Carlson: Spoke to Ted Firetog, they will submit workplan for upgradient sampling. Issued letter and stipulation agreement requiring workplan for upgradient delineation. (Ted Firetog: tfiretog@eniinternet.com, Zeb Youngman: zeby@pwgrosser.com)

1/22/09 − Carlson: Reviewed workplan. One upgradient sampling point requested. Sent letter requiring a revised workplan, three wells required.

Map Identification Number 30 **WOLF PETROLEUM CORP** **Spill Number: 0330060** **Close Date:**
2 BUSHWICK AVENUE BROOKLYN, NY TT−Id: 520A−0051−718

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2099 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 2 BUSHWICK AVE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: CARY WOLF − WOLF PETROLEUM
Spiller Phone: (516) 997−9300
Notifier Type: Other
Notifier Name: ROB RULE
Notifier Phone: (540) 943−8468
Caller Name: KERRY FOLEY
Caller Agency: DEC
Caller Phone: (718) 482−4977
DEC Investigator: SKCARLSO
Contact for more spill info:
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/01/1999	10/15/2004	UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	
BTEX	OXYGENATES	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

MTBE spike detected during groundwater monitoring for spill #9110815. Possible new release. Currently an Amoco station owned by Wolf Petroleum.

DEC Investigator Remarks:

2/4/04 Spill date is estimated as occuring sometime in 1999, based upon data submitted by Shell's consultant, Phoenix Environmental.

Summary:
DTW 20−25'bgs. Flow east to northeast.

7/90−2/98 MTBE concentrations in onsite wells MW−2 and MW−4 ranged from ND to 986ppb.

2/99−2/03 MTBE concentrations in wells MW−2 and MW−4 ranged from 619ppb to 34400ppb. The highest concentrations of MTBE in wells MW−2 and MW−4 were 34400ppb and 23300ppb respectively.

From 1990 to 1991, concentrations in MW−3 ranged from 24,000ppb to 26,000ppb. Product was detected intermittently in well MW−3 from 1991 to 2003. On March 30, 1998 product was not present and a groundwater sample was collected with an MTBE concentration of 3990ppb. In 2000, MTBE concentrations in MW−3 ranged from 181,000ppb to 842,000ppb.

From 1990 to 1991, concentrations in MW−1 ranged from 1600ppb to 24000ppb for MTBE. MW−1 was destroyed during construction in 1993. MTBE concentrations in MW−1 appear to be a minor spike, localized to the tank field area. This is supported by the fact that down gradient MW−2 ranged from 14 to 986ppb until 1999 when MTBE concentrations throughout the site increased significantly.

2/13/04 Stipulation agreement faxed(516−997−3673) and mailed to Cary Wolf, Wolf Petroleum and B. Beck, National Environmental.

2/13/04 Spoke with B. Beck. He expressed concern that Shell will not be held responsible for their spill. I explained that Shell spill #9110815 remains open. He will speak to Cary Wolf on Tuesday 2/17/04 and get back to me.

4/21/04 Received letter from Mr. Wolf's attorney. Reluctant to execute a stipulation because "they have info suggesting the detection of increased MTBE is related to an upgradient, off−site discharge". There is a Hess station(810 Metropolitan, spill #9702757) but downgradient. Hess is possibly being affected by Amoco as per groundwater monitoring data from Hess from 2/04.

4/22/04 Spoke to B. Beck. Requested they put deadline extension request in writing with deadline for signing stip.

4/28/04 Received unsigned copy of letter from B. Beck. Report can be transmitted on or before June 4, 2004 assuming sampling is completed soon. Installation of upgradient wells may require more time. Will sample and survey all wells, possibly install upgradient wells, and complete FOIL process. Wish to arrange split sampling and gauging with Shell's consultant. Does not indicate when or if stipulation will be signed.

4/29/04 Referred to Legal, D. Rubinton.

9/29/04 Met with Barry Cohen(Certilman Balin Attorneys), Bruce Beck(consultant National Env.) with J. Rommel and L. Oliva. Wolf is taking responsibility for spill. B. Beck to send report by 10/1/04. To sign stip in interim of consent order. Changed stip to read 2 Bushwick Ave Corp(Wolf Petroleum) as the respondent. Emailed stip to B. Cohen. STIP due 10/6/04.

10/8/04 Spoke to B. Cohen. He will be bringing stip over to Wolf for signature today.
10/15/04 Received signed stip. Also received passing system test results(Crompco).
10/19/04 Stip fully executed by T. Kunkel. Investigation summary report due 12/19/04.

1/14/05 Received letter from B. Beck of partial completion of investigation which includes sample results for three wells. Results indicate BTEX from ND(MW−2,4) to 820ppb(MW−3). MTBE from 102ppb(MW−4) to 590ppb(MW−3). MW−1 has been destroyed.

6/30/05 Received quarterly report. Sampled three wells(MW−2,3,4) in 4/05. BTEX from ND(MW−4) to 3.4ppb(MW−2). MTBE from 3ppb(MW−4) to 17ppb(MW−2). Report states that construction of MW−4 was rehabilitated to avoid a nearby self−serve car wash machine run−off from entering well. MW−3 is mounted in a 2'X2' manhole pit which collects run−off and is "oily". Trace "oily" product found in MW−3(0.3").

1/31/06: Case reassigned to Andersen. Recent monitoring report overdue. MW−2 and MW−4 have low contaminant concentrations. MW−3

has 0.3 inches product. Sent Bruce Beck an email saying quarterly reports are overdue. He replied saying samples were just taken and he would send a report in approximately 4 weeks.

3/13/06: Received letter from Bruce Beck saying a report will be submitted.

5/19/06: Consent order meeting with Wolf scheduled for June 2 at 11am.

6/8/06: Meeting with NYSDEC, Barry Cohen (Wolf's attorney's) and Bruce Beck (Wolf's consultant) regarding the consent order. Barry Cohen indicated that Sunoco may also be a responsible party.

7/10/06: Emailed Bruce Beck to set up a meeting to discuss deliverables required for consent order.

7/13/06: Received update report dated 3/3/06. MW−4 was repaired. Groundwater samples collected on 1/30/06. MW−3 has a sheen, heavy oil staining, and a PVC pipe that connects it to MW−4 (probably used for recovery). Benzene 6.9 ppb in MW4. MTBE 73 in MW4. NEMA proposed: 1) clean all wells with Biosolve, 2) cleanout MW3 manway casing and seal well at top, 3) install a monitoring well in the location of former MW1, 4) sample wells quarterly (starting after Biosolve use. Approved proposed remedial methods.

8/2/06: Meeting with Bruce Beck on 7/25/06 to discuss deliverables. Shell is also a potential responsible party for this spill.

9/28/06: Received email from Bruce Beck: "Why was Shell released from the spill?
The numbers presented by them prior to the 'MTBE spike' were not near closure. The MTBE spike was a single event and the post spike concentrations returned to pre−spike concentrations immediately afterwards."

1/11/07: Received update report. MW1 redrilled. MW3 cleaned with Biosolve. Wells sampled on 11/14/06. No product detected. Max BTEX 250 ppb (MW3), max MTBE 171 ppb (MW3). Quarterly sampling.

5/1/07: Emailed Bruce Beck to followup on submission date for next report.

5/10/07: Left phone message for Bruce Beck to followup on overdue quarterly report.

5/16/07: Reviewed update report. Wells sampled in February 2007. Trace LNAPL in MW3. Low dissolved concentrations in all wells.

8/6/07: Consent order effective 7/27/07. Update report due 10/25/07.

9/12/07: Consent order modified, RAP due 10/27/07.

2/28/08: Reviewed September 2007 − November 2007 Quarterly Monitoring Report dated January 10, 2008. VEFR conducted from MW 3 on November 14, 2008. 50 gallons recovered. Wells sampled on November 14, 2007. 0.05 ft LNAPL in MW3. Relatively low concentrations in other wells. Wells were gauged but groundwater flow direction was not determined.

3/20/08 − Carlson: Meeting with Bruce Beck at 10am. A letter−report, titled Final report on Remedial Action, dated March 18, 2008, was submitted at the meeting. Groundwater samples were not collected, groundwater flow direction was not determined, and VEFR recovery volume and waste disposal manifests were not included. Continuation of weekly VEFR events was recommended.

3/24/08 − Carlson: Reviewed report dated March 18, 2008. Report stated that weekly VEFR events have been conducted since Novemebr 17, 2007. However, no documentation on these events was provided in the report. Sent letter requiring documentation of VEFR events, quarterly groundwater sampling and gauging, and quarterly reporting.

5/8/08 − Carlson: Reviewed December 2007 − February 2008 Quarterly Monitoring Report dated March 31, 2008, received on May 7, 2008. Gauging and VEFR events were conducted once in November and December, three times in January, and twice in February. Trace product was found in MW3 in November, December, and February. Groundwater samples were collected on February 28, 2008. Maximum BTEX concentration was 3,380 ppb (MW3). Maximum MTBE concentration was 22 ppb (MW1). VEFR events will continue.

7/24/08: Reviewed Quarterly Report dated June 20, 2008. Weekly gauging of all wells. A sheen was present in all wells at some point this quarter. Weekly VEFR upgraded to all wells. Wells sampled in May 2008. MW−3 not samples because a sheen was present. Low dissolved concentrations. Review effectiveness of VEFR.

8/11/08 − Carlson: Reviewed report dated 8/8/08. Weekly VEFR ongoing. Sheen present in MW3 and MW 4 in June 2008. Groundwater sampling data was not included.

8/20/08 − Carlson: Meeting on 8/19/08 with Bruce Beck and Tracy Wall. The Department requests additional delineation. Workplan due by 10/08.

9/24/08 − Carlson: Reviewed Final Report dated 8/8/08.

10/30/80 − Carlson: Reviewed June 2008 − August 2008 Quarterly Monitoring Report. Wells sampled on August 14, 2008. Sheen present in MW3 and MW4. Maximum BTEX concentration 189 ppb (MW1), maximum MTBE concentration 17 ppb (MW1). Weekly VEFR from MW3, and MW4 if necessary. Delineation workplan was not received.

11/19/08 − Carlson: Meeting with NEMA. IP due by end of year.

12/18/08 − Carlson: Received FOIL request for 95−02757, IP deadline extended to 1/30/09 to allow for review of FOIL request.

2/20/09 − Carlson: DEC Leung returned case file because FOIL officer did not get a response from NEMA.

Reviewed Quarterly Report dated January 4, 2009. Wells gauged weekly. Weekly VEFR. Sheen present in every well throughout quarter. Groundwater flow direction was not indicated on the site plan.

IP overdue.

Received letter dated January 25, 2009 requesting reduction in VEFR from weekly to twice−monthly.

2/23/09: Received request for extension from tracy wall. Replied how long of an extension she is requesting (it is already three weeks overdue, and they have had one extension already).

4/8/09 − Carlson: Reviewed December 2008 − February 2009 Quarterly Report and Investigation Workplan dated March 22, 2009. Wells sampled on March 5, 2009. Sheen present in MW1 and MW2. Maximum BTEX concentration 254 ppb (MW3), maximum MTBE concentration 611 ppb (MW3). Weekly VEFR ongoing. Discuss effectivess of VEFR at the upcoming meeting. Investigation workplan proposes installation

of two downgradient wells on Humbolt Street. Is it possible to install a well in the parking lot at 358 Humbolt Street? Left voice message for Tracy Wall.

4/29/09 − Carlson: Met with Bruce Beck. He will pursue access agreement with owner of parking lot. Revised workplan due 5/30/09.

6/3/09 − Carlson: Received email from Bruce Beck. Access agreement in progress. Extension needed for workplan submittal.

7/2/09 − Carlson: Received email from Bruce Beck − access agreement will be sent to off−site owner.

7/8/09 − Carlson: Reviewed March 2009 − May 2009 Quarterly Monitoring Report. Wells sampled on May 28, 2009. Weekly VEFR ongoing. Sheen in every well throughout quarter. Low dissolved concentrations.

10/7/09 − Carlson: Received update report. LNAPL in MW 2,3,4. Weekly VEFR ongoing. Revised investigation plan overdue.

10/13/09 − Carlson: Received email from Bruce Beck: sidewalk wells will be installed this week. Revised IP required for well in private parking lot, they are working on access to the private parking lot.

11/18/2009 − Carlson: Meeting with Bruce Beck. IP for well installation overdue. RIR for sidewalk well installation due 1/30/2010. Wolf's attorney Barry Cohen will work on access for well installation in private parking lot.

1/7/2010 − Carlson: Approved extension for investigation and quarterly report submittal to 1/31/2010.

2/11/2010 − Carlson: Received RIR. Two sidewalk wells are clean, but soil samples were not collected. Received email − they can go back and do soil borings to delineate soil. IP for well in private parking lot overdue.

2/17/2010 − Carlson: Portfolio review meeting with Bruce Beck. NYSDEC to issue letter requiring delineation work plan.

3/4/2010 − Carlson: Issued letter requiring delineation work plan for soil borings adjacent to monitoring wells MW5 and 6, and a proposed mw in private parking lot to the SW of the property. Due 4/5/2010.

4/7/2010 − Carlson: Received cc of access request to adjacent property owner.

4/20/2010 − Carlson: Reviewed update report and investigation work plan.

4/21/2010 − Carlson: Approved work paln for installation of one off−site monitoring well (in the adjacent private parking lot), and three soil borings. RIR due in 60 days.

7/16/2010 − Carlson: Reviewed RIR and QMR. Three soil borings performed adjacent to MW's 3,5,6. Low level soil impact present in boring adjacent to MW3. Sheen present in MW3. Off−site soil boring in private parking lot was not installed. Weekly VEFR ongoing.

1/14/11 − Obligado − I received a letter from Impact requesting monthly instead of weekly gauging, since product has not been encountered for the past 3 months. I approved this request.

4/6/11 − Obligado − I reviewed the 1Q11 update report. BTEX concentrations of 16,760 ug/L were detected in MW3. No product

detected. GW is 22 feet below grade.

I reviewed some historical reports to gain information related to free product and subway tunnel. According to a 1990 Handex report, there is a subway easement in the northeast corner of the site. The bottom of the tunnel is 26 feet bgs. The top of the tunnel is approximately 7 feet below grade. Therefore the tunnel cuts across the water table and probably acts as a ground water barrier. The subway contains a sump−pump system for seepage along length of the tunnel and two pump stations located within the vicinity of the site.

9/27/11 − Obligado − I reviewed the 2Q11 update report. No product detected. 6201 ug/L BTEX in MW3. They recommend returning to quarterly gauging due to continued lack of product.

Meeting held on 1/30/2012 with Christine Camardella and Kevin Kleaka of Impact Environmental, Barry Cohen of Certilman Balin, and Carlson, Kolleeny and Urda of NYSDEC. IWP to be submitted in 30 days for an additional on−site well in the NE portion of the site. May not be feasible because the subway is located directly adjacent to the site.

3/16/2012 − Carlson: Reviewed 4th quarter 2011 update report. MW1 not sampled − inaccessible. MW2 − MW4 sampled only. No LNAPL noted. Large decrease in VOC concentration in MW3 since last sampling. Significant VOC concentration in MW1 in 9/26/11 sampling event. IWP for on−site delineation overdue − as discussed during 1/30/12 meeting.

3/29/12 − Carlson: Reviewed IWP, delineation not accessible due to subway. MNA proposed.

9/11/12 − Carlson: Reviewed 2nd quarterly update report dated 7/17/12. The report documents groundwater gauging and sampling conducted in June 2012. Volatile organic compounds are present above the Departments standards in three wells.

9/12/12 − Carlson: Issued RAWP required letter. RAWP due 10/12/12.

11/8/12 − Carlson: Received email from Christine Camardella on 9/14/12. Remediation not possible because MW−3 is located 13 feet from the subway tunnel. No intrusive work allowed within 20 feet of subway tunnel (this includes chemical injection). Replied to email − how about waterloo oxygen emitters?

Map Identification Number 31 **99 CENT STORE (DOLLAR UP STORE)** **Spill Number: 0208256** **Close Date:**
640 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0040−262

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2164 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	ANNA MARIA LINDBLAD	Notifier Phone:	(718) 389−8876
Caller Name:	ANNA MARIA LINDBLAD	Caller Agency:	TENANT	Caller Phone:	(718) 389−8876
DEC Investigator:	smsanges	Contact for more spill info:	JERRY SHERMAN	Contact Person Phone:	(718) 383−1515

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/08/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES EVERYTIME OIL IS DELIVERED A STRONG ODOR PERMEATES
HER APT WHICH IS LOCATED OVER THE STORE. EMPLOYEES IN THE STORE
HAVE TOLD CALLER THAT THE BASEMENT IS A MESS FROM DELIVERIES OF OIL
LANDLORD WAS ADVISED OF POSSIBLE PROBLEM BUT DID NT SEEM TO CARE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"

mailing address for building owner is:
Sherman Monroe
20191 E Country Club Dr.
Aventura FL 33180−3012

10/2007 City Tax records now say:
Sherman Monroe
1850 South Ocean Drive Apt 3907
Hallandale, FL 33009

Property was sold in 2009 to:
Man−Bklyn LLC
640 Manhattan Ave
Brooklyn, NY 11222

Map Identification Number 32 **169−175 NORTH 10TH STREET** **Spill Number: 0611495** **Close Date:**
169−175 NORTH 10TH STREET BROOKLYN, NY TT−Id: 520A−0048−057

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2222 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: SHARRISSA
Spiller Phone: (212) 353−8280
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rmpiper
Contact for more spill info: SHARRISSA
Contact Person Phone: (212) 353−8280

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/16/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SOIL TESTING FOUND CONTAMINATION

DEC Investigator Remarks:

DEC Piper to investigate surce of cont.
2/5/08− DEC Piper recieved addendum to RAP where a basement will now be constructed rather than slab on grade.

RAP was changed as they will not be excavating entire site. DECPiper reviewed analytical ans spoke with Jane O'Connell regarding metals. NYC OER will handle metals and DEC will handle petroleum cont in back of property.

7/16/12− DECPiper met with OER and Dave Yudelson. Excavation in front of property will go as planned with endpoints being collected. Yudelson feels cont in rear is from offsite. 981 ppm of Napthalene is highest hit. DEC Piper spoke with DEC Austin regarding rear of property. He feels to deterimine if it is from an onsite source, further delineation is required.

7/17/12− DEC piper emailed Yudelson and he will submit a work plan with at least 3−4 geoprobe points and collect soil and groundwater.

Map Identification Number 33 **HESS−MERIT STATION 32522** **Spill Number: 9502757** **Close Date:**
810 METROPOLITAN AVENUE BROOKLYN, NY TT−Id: 520A−0041−616

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2241 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: HESS/MERIT
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name: CELEST RUFER
Caller Agency: GROUNDWATER ENV. SERVICES
Caller Phone: (516) 953−1260
DEC Investigator: RJFENG
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
06/05/1995		OTHER	2−297410	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ODOR OF GASOLINE WHEN TANKS WERE UNCOVERED

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"

10/28/2005: Project reassigned from Sun to Andersen. Reviewed the triannual report dated 8/19/2005, there is local contamination around MW−4. A stip needs to be sent out to begin remediation.

12/6/05: Reviewed the tri−annual report dated 11/29/05. Three MW's sampled on October 11, 2005. Max BTEX is 2,318ppb (MW4) and max MTBE is 91 (MW2). Fluctuating concentrations. Sent RAP required letter.

1/3/06: Spoke with Gail Russo of Quantum. I gave verbal approval for the RAP received. Installation for SVES/AS system scheduled for January 4−5, 2006.

1/4/06: Letter with RAP approval mailed. SVE/AS data sheets are required to be submitted.

1/26/06: 1/25/06 meeting with Quantum, NYSDEC, and ET. SVE/AS wells have been installed. Three short term SVE/AS events will be performed.

5/19/06: Sent Gail Russo an email to followup on overdue update report.

6/8/06: Received update report dated June 2, 2006. Three extended−period SVE/AS events performed in first third 2006. ORM socks installed in wells MW−2 and MW−4. Wells sampled on 2/24/2006. MAX BTEX 1,662 ppb (Mw4), max MTBE 447ppb (MW−2). Decreasing BTEX trend and slight increase in MTBE. Three additional extended−period SVE/AS events will be performed in the second third 2006, and new ORM socks installed.

7/5/06: Meeting on 6/28/06 with Hess, Quantum, NYSDEC, EnviroTrac and GSC. Short term SVE/AS is effective.

8/29/06: Received update report dated 8/21/06. Short term SVE/AS on wells MW4, SVE1, AS1, AS2 on June 16 and June 22 2006. Groundwater sampled on June 29 2006. Max BTEX 16 (MW4), max MTBE 1,420 (MW2). ORM socks installed in MW2 and MW4 following the SVE/AS event on June 16 2006. Large decrease in BTEX in MW4. MW2 still shows significant MTBE contamination. Report states "concentrations in MW2 will continue to be evaluated to determine if these concentrations attenuate naturally or require remedial action". This site is on a triannual sampling plan.

1/17/07: Meeting on 1/16/07 with Hess, Delta, NYSDEC.

1/23/07: Received update report. Wells sampled on 10/7/06. Max BTEX 156 ppb (MW4), max MTBE 523 ppb (MW2). ORC socks in MW 2 and 4.000

4/26/07: Received update report. Wells sampled on 2/23/07. Max BTEX 175 ppb (MW4), max MTBE 690 ppb (MW2). ORC socks in use.

8/17/07: Reviewed update report. Wells sampled on 6/11/07. Max BTEX 295 ppb (MW4), max MTBE 110 ppb (MW2). Two extended period portable sve/as events were conducted in June around MW4. ORC socks were installed in MW2 and MW4. Sent email requesting that air flow rate and effluent PID be measured when conducting portable SVE/AS events, and that the total petroleum recovered then be calculated.

2/11/08: Reviewed August 2007 − November 2007 Site Status Report. Wells sampled on October 5, 2007. Max BTEX 350 ppb (MW4), max MTBE 100 ppb (MW2), benzene ND in all wells. No further action requested.

5/6/08 − Carlson: Reviewed first triannual 2008 update report dated April 28, 2008. Wells sampled on 2/12/08. Maximum BTEX concentration 96 ppb in MW4. Maximum MTBE concentration 2 ppb (MW2). ORC socks in use in MW2 and MW4. Meeting scheduled for 5/7/08.

9/8/08 − Carlson: Reviewed August 2008 Update Report. Wells sampled on June 13, 2008. Low dissolved concentrations. Sent email to Hess/Envirotrac − remove ORC socks from MW−2 and MW−4.

9/15/08 − Carlson: Received email notification that ORC socks removed on 9/11/08.

10/22/08 − Carlson: Meeting with Hess/Envirotrac. They have recent soil data from SVE/AS well installation. They will submit a petition for closure.

1/8/09 − Carlson: Reviewed closure request dated 12/12/08. Three soil borings were completed. Impacted soil present in SB3. Delineation workplan required for soil borings/monitoring wells on Bushwick Avenue. (Wolf Bushwick Avenue site is directly downgradient). Workplan due 2/8/09.

1/9/09 − Carlson: Reviewed update report. Low level groundwater impact remains.

1/22/09 − Carlson: Approved workplan for the installation of two sidewalk wells.

2/27/09 − Carlson: Received email request from Ed Russo to delay quarterly sampling by one month in order to include new wells. Report will be submitted in April as planned. Request approved.

3/18/09 − Carlson: Meeting with Hess and Envirotrac. Delineation not possible due to subway. RAP will be submitted in April 2009. Quarterly gauging requested.

5/7/09 − Carlson: Reviewed April 2009 update report. RAP overdue. Emailed John Schenkewitz about overdue report.

5/11/09 − Carlson: Received email from Ed Russo, RAP will be submitted in August 2009.

8/7/09 − Carlson: Reviewed update report. Low dissolved concentrations. Workplan to address residual soil impact will be submitted by end of the month.

8/10/09 − Carlson: Received work plan for installation of four on−site wells.

8/19/09 − Carlson: Meeting with Hess and Envirotrac.

8/27/09 − Carlson: Issued approval letter for installation of four on−site monitoring wells.

11/17/09 − Carlson: Reviewed update report. Low dissolved concentrations. New wells were not installed yet.

12/10/09 − Carlson: Reviewed second closure petition. Four additional confirmatory borings were installed.

1/27/2010 − Carlson: Meeting with Hess. NYSDEC to review case file internally.

5/20/2010 − Carlson: Meeting with Hess. NYSDEC still requires additional borings around SB3.

5/28/2010 − Carlson: Reviewed update report. Low dissolved concentrations.

8/15/2010 − Carlson: Reviewed July 2010 update report. Low dissolved concentrations. Report states Hess to delineate after receipt of NYCTA permits. Delineation work plan was not submitted.

8/31/11 − Obligado − I reviewed the 2Q11 report. BTEX is ND. They are still trying to get permit to do the soil delineation work.

11/14/11 − Carlson: Reviewed October 2011 update report. Hess still waiting for permit approval from NYCTA for delineation.

4/24/2012 − email from Joe Rennie of EnviroTrac "Please be advised that we are tentatively scheduled to conduct drilling at the above referenced location on Tuesday May 1, 2012 as per the attached NYSDEC approval letter. Please note that this project has been delayed due to New York City Transit Authority permitting requirements as this location is in close proximity to the New York City subway system. As discussed previously with NYSDEC case managers Mark Tibbe and Sarah Carlson, Hess expects that if soil and groundwater sampling data from this drilling is favorable, that closure of NYSDEC spill # 95−02757 will be granted by NYSDEC. If you have any questions, please do not hesitate to contact me at (631) 924−3001."

6/19/2012 − reviewed 1Q2012, 4/30/2012, by EnviroTrac. DTW 9.88' to 22.24' bg. Flows to southwest. 5 wells were sampled. MW−4, 4.4 ug/L BTEX, 8.3 ug/L MTBE. others are ND. Proposes to abandon monitoring wells MW−1, MW−2, MW−3 and MW−5. Next sampling event will be in 5/2012.

6/20/2012 − comments to Hess/EnviroTrac. 1) need to have the newly installed wells data in order to make the call whether or not to abandon the wells; 2) the requirement on the petition for closure: site use history; show all the investigation; show all the remediation; show all the remediation results; and the sensitive receptors information.

reply form Edward Russo "thanks for getting back to us. The data from the newly completed soil borings/wells indicated positive results, so we are working on the request for closure now. The request for closure will incorporate your comments/requests below. You can disregard the request to abandon MWs 1, 2, 3, and 5. The closure request will be submitted to you within the next couple of weeks."

7/18/2012 − reviewed the Request for Spill Closure Letter (the Letter) dated June 29, 2012, prepared by EnviroTrac Enviromental Services (EnviroTrac) on behalf of Hess Corporation (Hess). The Letter summarizes the Site's history and requests site closure. Denies the spill closure request due to the uninvestigated and unremediated residual contamination at the Site. see the letter for details on the required additional work to be done. Response by 8/20/2012.

10/4/2012 − Reviewed the response letter dated 8/20/2012 from Hess/EnviroTrac. Basically, they responded on DEC comments. The soil contamination is either infeasible to treat and the previous investigation has delineated the extent of the mentioned soil contamination location. Hess/EnviroTrac request for spill closure.

10/15/2012 − presented the case to the Section committee. Spill closure is denied based on: see the memo in eDoc for more details.

1) Residual contaminated soil was present in the former remote fills area at depth of 2 feet below ground surface. Confirmatory soil samples are required. As−built drawing and utilities mark out map shall be provided to prove infeasibility to remediate the area.

2) The confirmatory soil boring SB−3 exhibits soil contamination exceeds CP−51 SCOs at depth of 29−30 feet. Additional remediation and confirmatory sampling shall be required.

email to Hess/EnviroTrac requiring a work plan to address the above concerns/requirement by November 2012.

ACTIVE HAZARDOUS SPILLS − MISC. SPILL CAUSES − EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM AND STORMS − IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS.
All spills mapped and profiled within 1/8 mile. Between 1/8 mile and 1/2 mile search radius, spills reported to be greater than 100 units and spills reported in the NYSDEC Fall 1998 MTBE Survey are mapped and profiled. Spills reported to be less than 100 units are listed in a table at the end of this section.

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 34 **FEEDER 61** **Spill Number: 9103785** **Close Date:**
MEEKER AVE & LEONARD ST BROOKLYN, NY TT−Id: 520A−0050−363

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / LEONARD ST
Revised zip code: UNKNOWN

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: YONKERS CONST / CON ED Spiller Phone: (718) 486−6885
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: KOON TANG Caller Agency: NYSDEC Caller Phone: (718) 482−4933
DEC Investigator: JMOCONNE Contact for more spill info: Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/28/1991		HUMAN ERROR	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SEWER
DIELECTRIC FLUID	PETROLEUM	0	POUNDS	0	POUNDS	SEWER

Caller Remarks:

NYSDOT CONTRACTOR YONKERS CONSTRUCTION,SUBCONTRACTOR NICHELSON WAS EXCAVATING,DIELECTRIC OIL SPILLED FROM A 5" LINE @ 250−300 PSI,OIL LEAKED INTO AN ADJACENT OPEN EXCAVATION & CONTAMINATED SOIL.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

Appendix B site #30

07/02/91: FEEDER LINE #61 FROM RAINEY SUBSTATION (35 VERNON BLVD) TO FARRAGUT SUBSTATION (89 JOHN ST) − 5" LINE, APPROX 4 MILES = ~21,120 GALLONS OF DIELECTRIC OIL IN LINE (1.02 GALLONS PER FOOT). CON ED (RICHARD BLACKMAN) DIRECTED YONKERS CONSTRUCTION TO PUMP OIL/WATER MIXTURE IN THE OPEN EXCAVATION TO STORM SEWER. CONTAMINATED SOIL WAS REMOVED BY YONKERS CONST., NO TRANSPORTERS PERMIT. CLEANED UP.

10/3/03 Additional indformation from old files indicates feeder 61 was hit by contractor working on BQE project.

10/15/12 − draft SIWP reviewed and comment letter sent 10/12/12 (JOC)

Map Identification Number 35 **CONSTRUCTION SITE** **Spill Number: 0808463** **Close Date:**
95 BEDFORD AVE BROOKLYN, NY TT−Id: 520A−0220−442

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2130 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	KEVIN BRUSSEE − UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:	KEVIN BRUSSEE	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/28/2008		TRAFFIC ACCIDENT	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

A dump truck drove over a obstacle puncturing its fuel tank spilling its fuel onto the soil. A vac truck is enroute, and soil will be removed at a later date.

DEC Investigator Remarks:

Site is being excavated under an "E" designation with the city because of lead contamination. One of the dump trucks hit a pylon and ruptured a diesel saddle tank. Area was soil, but was contained as best they could.
ABC Pumped out the puddles & scraped up the contaminated soils. The area is being excavated and end point samples will be taken.
Kevin Brussee will forward a spill closure report to DEC within the next couple of weeks.

THE FOLLOWING ACTIVE SPILLS FOR THIS CATEGORY WERE REPORTED BETWEEN 1/8 MILE AND 1/2 MILE SEARCH RADIUS FROM THE SUBJECT ADDRESS. THESE SPILLS WERE REPORTED TO BE LESS THAN 100 UNITS IN QUANTITY AND CAUSED BY: EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM, OR STORMS. THESE SPILLS ARE NEITHER MAPPED NOR PROFILED IN THIS REPORT.

FACILITY ID	FACILITY NAME	STREET	CITY
1206249	CONSTRUCTION SITE	264 NORTH 10TH ST	BROOKLYN
1209698	GARAGE	214 NORTH 11TH	BROOKLYN
1111339	GAS STATION	51 KINGSLAND AVE	BROOKLYN
0413160	NYCSCA − AUTOMOTIVE TRADE HIGH SCH	50 BEDFORD AVENUE	BROOKLYN
0809794	GAS STATION − IND−G LINE	METROPOLITAN AVE @ UNION	BROOKLYN

CLOSED STATUS TANK FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 36 **GAS STATION** **Spill Number: 0310672** **Close Date: 12/16/2003**
392 LEONARD STREET BROOKLYN, NY TT−Id: 520A−0051−714

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 388 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Citizen
Caller Name: ANNOYOMOUS
DEC Investigator: SMSANGES

Spiller:
Notifier Name: ANNOYOMOUS
Caller Agency:
Contact for more spill info: ANNY

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (203) 876−7430

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/16/2003		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	POUNDS	0	POUNDS	SEWER

Caller Remarks:

CALLER DOES NOT WISH TO GIVE HIS NAME, BUT STATES THAT THE GAS STAION IS POLLUTING THE SEWER BY A BROKEN HOSE OR OTHER, THEY ARE SWEEPING INTO THE SEWER SYSTEM. CALLER VERY CONCERNED.UNKNOWN AMOUNTS. WOULD LIKE SOMEONE TO COME CHECK OUT.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"

Map Identification Number 37 **68 RICHARDSON STREET** **Spill Number: 9312569** **Close Date: 06/11/2001**

68 RICHARDSON STREET BROOKLYN, NY TT−Id: 520A−0047−906

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 742 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: HARRY NADLER − BERNSTEIN REALTY
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: BOB DECK
Caller Agency: PETRO TANK CLEANERS
Caller Phone: (718) 624−4842
DEC Investigator: SMMARTIN
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/25/1994	02/26/2001	TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

Caller Remarks:

AFTER TANK WAS CLEANED − OWNER FOUND RESIDUAL OIL PUMP PIT − CALLED BOB DECK, HE SAID THAT OIL SHOWED UP IN SUMP PIT OWNER ASKED TO SET UP TEMP. TANK (1080 GAL) AND CLEANED THE 2500 GAL UST. FOR INSPE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
CLOSURE LETTER DATED 7/30/2001. SMM

Map Identification Number 38 **UNKNOWN GAS STATION** **Spill Number: 0008335** **Close Date: 10/25/2005**
2 ROEBLING ST BROOKLYN, NY TT−Id: 520A−0039−898

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1566 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: STEVE CAPONE
Caller Agency: A AND M DEMOLITION
Caller Phone: (718) 272−1301
DEC Investigator: JRSTRANG
Contact for more spill info: UNKNOWN
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/17/2000		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

callers business was contracted for excavation of tank and when contaminated soil was found the callers business was fired.
another company on scene − dano construction

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"

10/25/05 − New Condo built on−site. Administrative Closure.

Map Identification Number 39 **RESIDENCE** **Spill Number: 0409577** **Close Date: 02/04/2005**
243 JACKSON STREET BROOKLYN, NY TT−Id: 520A−0040−602

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1927 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: ALBERT LONG − RESIDENCE
Spiller Phone: (718) 349−6697
Notifier Type: Affected Persons
Notifier Name: LEVAR CHAMBERS
Notifier Phone: (516) 686−2012
Caller Name: LEVAR CHAMBERS
Caller Agency: PETRO OIL
Caller Phone: (516) 686−2012
DEC Investigator: SFRAHMAN
Contact for more spill info: ALBERT LONG
Contact Person Phone: (718) 349−6697

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/26/2004		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

two thirty five tanks leakng closer to the wall. in the basement. crews not on the way :not cleaned up

DEC Investigator Remarks:

2/4/05 TJD
Demeo was contacted by the property owner. He has completed the removal of his 275 AST and converted to gas. According to the property owner the floor beneath the tank is in good shape, no holes or cracks in the concrete. Petro completed the cleanup immediately following the reported spill using absorbents. No lingering petroleum vapors inside residence. Based upon the property owners statements spill is closed. No further action required.

Map Identification Number 40 **ADAMS DELI** **Spill Number: 0013080** **Close Date: 03/14/2001**
112 NASSAU AVE BROOKLYN, NY TT−Id: 520A−0044−922

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1951 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ADAMS DELI
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name: FIREMAN RIPOLL
Caller Agency: NYC FIRE DEPT
Caller Phone: (718) 476−6288
DEC Investigator: SMSANGES
Contact for more spill info: FIREMAN RIPOLL
Contact Person Phone: (718) 476−6288

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/14/2001		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

undetermined amount of oil enter drain via basement after tank let go. hazmat on scene

Cross Ref Spill #0013079

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
Duplicate spill number closed

Ref: Spill 0013079

Map Identification Number 41 **UNICO GAS STATION** **Spill Number: 9909193** **Close Date: 10/07/2005**
445 METROPOLITAN AVE BROOKLYN, NY TT−Id: 520A−0051−717

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2523 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: GASOLINE STATION
Spiller: JOE − UNICO GAS STATION
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: BEN KANN .
Notifier Phone: (718) 383−4818
Caller Name: BEN KANN
Caller Agency: ITAR TANKS
Caller Phone: (718) 383−4818
DEC Investigator: hmdudek
Contact for more spill info: JOE
Contact Person Phone: (000) 000−0000

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/28/1999		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

underground storage tanks were being removed and contaminated soil was discovered − site assessment will be done and the owner will decide what he wants to do for clean up

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
11/1/99

On site. All tanks out. Station covered with fresh concrete already. Two 55 gallon drums on side of station need to be disposed. All tanks off site. No stockpile of soil. Spill 9909344 reported by anonymous citizen.

11/2/99

Spoke to Butch (516) 831−2982 − beeper? from ITAR Tanks. Dr. Munroe was on site to collect samples from the excavation. NO soil was removed. Concrete slab was removed. PBS needs to be updated − tanks listed as temporarily−out−of−service.

Site visit 10/5/05 − Site abandoned. No drums present.

CLOSED STATUS TANK TEST FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 42 **UNITED AMBULETTE** **Spill Number: 0410348** **Close Date: 05/03/2005**
495 GRAHAM AVE BROOKLYN, NY TT−Id: 520A−0049−641

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 523 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Tank Tester
Caller Name: JIM MELNICK
DEC Investigator: KMFOLEY

Spiller: BOB − BUSINESS
Notifier Name: JIM MELNICK
Caller Agency: PRO TEST
Contact for more spill info: BOB

Spiller Phone: (718) 234−0024
Notifier Phone: (631) 321−4670
Caller Phone: (631) 321−4670
Contact Person Phone: (718) 234−0024

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/17/2004		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	4000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

RECOMMEND: GAS TANK HAS A WET LEAK: HAS BEEN REPORTED TO FIRE DEPT;

DEC Investigator Remarks:

12/22/2004 − Sangesland − 4,000 gal gasoline tank − PBS # 2−069140

1/14/2005 TTF letter sent to:
United Ambulette 2428 East 18th St, Brooklyn, NY 11222

2/22/05 Reassigned from Rommel to Foley. Spoke to Bob Arcaro, American. He will be submitting documentation and passing test results. No release to environment.

2/28/05 Received passing tightness test results for system. Bob Arcaro to submit affidavit.

3/7/05 Received affidavit. Between 1/31/05 and 2/11/05, American Resource Technology excavated part of the tank system, isolated the tank and piping and the retested. All components tested tight but the condition of the cathodic protection isolating union on the stage 1 was worn and could have compromised the integrity of the line. There was no evidence of contamination in the excavation but the isolating unions were replaced on the stage 1 line, the suction line, the fill line and vent line as a preventative measure. On 2/15/05, a tightness test of the tank system was performed with the piping still exposed and was witnessed by FDNY who had witnessed the tightness test failure on 12/17/04. The system tested tight.

Map Identification Number 43 **64 FROST ST** **Spill Number: 9601530** **Close Date: 08/05/2010**
64 FROST STREET BROOKLYN, NY 11211 TT−Id: 520A−0048−055

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 822 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 64 FROST ST
Revised zip code: NO REVISION MADE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Tank Tester
Caller Name: TOM LEDDY
DEC Investigator: hrpatel

Spiller: MEEKER DISCOUNT MUFFLERS
Notifier Name: TOM LEDDY
Caller Agency: PRO TEST COMPANY
Contact for more spill info:

Spiller Phone: (718) 388−3329
Notifier Phone: (516) 321−4670
Caller Phone: (516) 321−4670
Contact Person Phone: (718) 388−3329

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/30/1996		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1−5	550	Horner EZ Check I or II	0.00	FAIL

Caller Remarks:

caller belives its a bad line − 5 − 550 gal tanks manifolded together

DEC Investigator Remarks:

3/11/03 − SAMUEL− File available in active unassigned spill files.

4/3/06 Diaz − Next Steps − February 2000 Investigation report stated further investigation & possible remedial work recommended. Verify & conduct work or close site.

6/28/07. J.Krimgold reviewed and approved IWP submitted by FPM Group (631−737−6200)on June 27, 2007. The plan calls for 4 soil/gw samples around tanks excavation pit

5/21/08. email from FPM's Ben Cancemi informed that excavation and sampling activities will commence on 5/22/08.

02/12/09−Hiralkumar Patel. contamianted groundwater (with sheen) was discovered under basement floor at 684 Lorimer Street, site located behind subject gas station. based on location of both sites, contamination under house at 684 Lorimer street might be orinigated from subject gas station site.

based on recent findings, case transferred from DEC Jacob to DEC Patel.

found following documents for the subject site:

− tank closure environmental site assessment, Nov. 1999
− subsurface investigation report, Feb. 2000
− subsurface investigation work plan, Jun. 27, 2007
− subsurface investigation report and remedial action plan, Sep. 10, 2007

abstract of tank closure report, Nov. 1999:

− total of eight 550 gal and one 3000 gal USTs were removed including all pipings and portions of pump islands
− all of the tank in very good condition and exhibited no evidence of corrosion

− five of the tanks were empty, and three tanks were filled with concrete
− 3000 gal tank contained approx. 1300 gal of water and petroleum products
− total of eight soil and water samples were collected after tank removal
− depth to groundwater ranged from 14−16 ft bg <−−−−−−−−−
− according to fire department record, in Nov. of 1984, the eight 550 gal tanks failed the official 10 year test
− in sept. of 1985, three 550 gal were purged and filled with concrete
− one pump was removed and all associated lines were sealed
− highest PID readings were noted at an average depth of 10 to 15 ft <−−−−−−−−−−−
− fine to medium sized grain sand with clay lenses were found to a level of 12 to 14 ft bg
− a layer of one foot in thickness of peat−like material intermixed with clay occurred at about 16 ft bg
− found xylene contamination in east and north sidewall samples
− found contamination in groundwater samples

soil analyticals:

−−−−−−−−Xylene
North−−−−4,600
East−−−−13,500

groundwater analyticals:

−−−−−−−−−−−−−−−west bottom pit−−−−−−east bottom pit
Benzene−−−−−−−−−−−−160−−−−−−−−−−−−−−−−−−230
Toluene−−−−−−−−−−−−200−−−−−−−−−−−−−−−−−−230
Ethylbenzene−−−−−−−−97−−−−−−−−−−−−−−−−−−120
Xylene−−−−−−−−−−−1,410−−−−−−−−−−−−−−−1,520
Naphthalene−−−−−−−−390−−−−−−−−−−−−−−−−−−640
MTBE−−−−−−−−−−−−−1,900−−−−−−−−−−−−−−−2,300

abstract of subsurface investigation report, feb. 2000:

− eight borings (B1 thru B8) were advanced and collected soil and groundwater samples from borings
− borings B1, B2 and B5 thru B8 were advanced in the immediate vicinity of the former tank field and borings B3 and B4 advanced near the west property line
− groundwater found at 10 ft depth− soil samples collected at 8−10 ft depth from each boring except boring B4 where no sample collected; additional soil sample collected from boring B1 at 0−4 ft depth
− high PID reading found during borings
− contamination found in soil and groundwater samples

PID readings:

−−−−−−−−−−−−−0−4−−−−−−−4−8−−−−−−−8−10
B1−−−−−−−−−−1,120−−−−−1,160−−−−−−1,190
B5−−−−−−−−−−−−110−−−−−−−−20−−−−−−−−−55

B6−−−−−−−−−−−−−−−−−−−−2,010
B7−−−−−−−−−−−−−−−−−−−−−−640

soil analyticals:

−−−−−−−−−−−−−−−−−−−−−−−−−−−B1−−−−−−−−−−−−B1−−−−−−−−−−−−B6
0−4 ft 8−10 ft 8−10 ft
Benzene−−−−−−−−−−−−−−−−−−<250
Xylene−−−−−−−−−−−−−−−−−−25,000−−−−−−−−−5,300−−−−−−−−−−1,200
1,2,4−Trimethylbenzene−−14,000
1,3,5−Trimethylbenzene−−23,000−−−−−−−−−3,200

groundwater analyticals:

−−−−−−−−−−−−−−−−−−−−−−−−−−GW1−−−−−GW−3−−−−−GW−4−−−−−GW−5−−−−−GW−6−−−−−GW−7−−−−−GW−8
Benzene−−−2,900
Toluene−−−520−−−−−−−−−−−−−−−−−−−−−−−−540
Ethylbenzene−−120−−−−−−160−−−−−−260−−−−1,700
Xylene−−−−−−−−−−−−−−−−−−−−360−−−−−−−−−−−−−−−−−−−−−−−−640−−−−−−420−−−−2,000−−−15,000
Naphthalene−−−140−−−−−−700
MTBE−−−−−−−−−−−−−−−−−−−−−−−260−−−−−−180−−−−−−830−−−−−−120−−−−1,200−−−−1,500−−−−7,000
1,2,4−Trimethylbenzene−−−−210−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−190−−−−−−750−−−−3,600
1,3,5−Trimethylbenzene−−−−330−−−−−−−−−−−−−−−−−−−−−−−−−170−−−−−−300−−−−1,700−−−−7,200

abstract of subsurface investigation report, Sep., 2007:

− four soil boring were installed to final depth of 15 ft bg
− soils encountered at the property generally consisted of fine to medium grained sand with gravel and trace amount of silt and clay from just below grade to the top of blue−green clay layer
− the top of the blue−green clay layer was evident in all of the borings at depths ranging from approx. 12.5 to 14.5 ft bg
− the blue−green clay layer showed no indications of potential contamination and was not fully penetrated by any of the borings
− staining and petroleum odors were generally observed in the soils from all of the borings in an interval near the water table surface, which was generally encountered at 8 to 8.5 ft bg
− interval of staining/odor was variable in thickness and ranged from approx. one foot at boring B4 to approx. 7 ft at boring B1
− PID readings in stained soils generally ranged between 10 and 60 ppm
− groundwater samples collected from each borings
− no free−phase product was observed in any borings
− found contamination in soil and groundwater samples

soil analyticals:

−−−−−−−−−−−−−−−−−−−−−−−−−−−−B1 (7−8 ft depth)
Benzene−−−−−−−−−−−−−−−−−−−−7,000
Toluene−−−−−−−−−−−−−−−−−−200,000

Ethylbenzene−−−−−−−−−−−−110,000
Xylene−−−−−−−−−−−−−−−−−−620,000
Naphthalene−−−−−−−−−−−−−−56,000
1,2,4−Trimethylbenzene−−510,000
1,3,5−Trimethylbenzene−−150,000

groundwater analyticals:

−−−−−−−−−−−−−−−−−−−−−−−−−−−−B1−AQ−−−−−−−−−B2−AQ−−−−−−−−−B3−AQ−−−−−−−−−B4−AQ
Benzene−−−−−−−−−−−−−−−−−−−−−1,500
Toluene−−−−−−−−−−−−−−−−−−−−−3,700
Ethylbenzene−−−−−−−−−−−−−−−−1,100
Xylene−−−−−−−−−−−−−−−−−−−−−−4,900
Naphthalene−−−−−−−−−−−−−−−−−−−470−−−−−−−−−−−−−−−−−−−−−−−−−120
MTBE−−300
1,2,4−Trimethylbenzene−−−−−−1,500−−−−−−−−−−−140−−−−−−−−−−−440
1,3,5−Trimethylbenzene−−−−−−−−370

abstract of remedial action plan, Sept. 2007:

− proposed to excavate impacted soils in the vicinity of boring B1
− "based on relatively low levels of groundwater impact, its apparently limited extent, and the apparent absence of free−phase product, no groundwater remediation recommended"
− three groundwater wells are proposed to be installed for groundwater flow direction determination
− each well will be installed to a depth of no more than 14 ft, so as not to penetrate the clay underlying the property
− each well will be installed with 10 ft of screen

summary:

− groundwater found at different depths: 14−16 ft during tank removal, 10 ft during subsurface investigation in 2000 and at 8.5 ft during subsurface investigation in 2007
− no groundwater flow direction available
− no permanent wells installed at the site
− heavy soil and groundwater contamiantion found during each investigation
− contamination found in all sides of previous tank location
− DEC Jacob issued RAP approval letter on Oct. 4, 2007 <−−−−−−−−−−
− as per email from Ben Cancemi from FPM group, excavation according to approved RAP was scheduled on 05/22/08 <−−−−−−−−

Paul’s LLC **site owner**
318 Grand Street
Brooklyn, NY 11211
Attn.: Paul Joffe
Ph. (718) 486−6916 (O)
(917) 693−3292 (C)

email: pauljoffe@pauljoffe.com

according to building department permit record, Mr. Joffe applied for permit to convert service station into dinning location.

found another spill case reported at the gas station site.

− 9806871: spill called in by citizen on 09/04/1998 about abandoned tanks; tipped over. spill closed on 02/26/2003.

left message for Mr. Joffe.

received call from Mr. Carter from Mr. Joffe's office. informed him about situation. Mr. Carter doesn't know much about this site but will ask Mr. Joffe to call back.

Nathan Carter
Ph. (718) 486−6804

02/13/09−Hiralkumar Patel. left message for Mr. Joffe.

left message for Ben Cancemi, consultant who was going to perform remedial activities.

Ben T. Cancemi, CPG
FPM Group
Ph. (631) 737−6200
Fax (631) 737−2410
email: b.cancemi@fpm−group.com

02/17/09−Hiralkumar Patel. received call from Ben from FPM Group. they excavated contaminated soil to water table in front of stores and installed three monitoring wells in June 2008. but haven't got authorization to sample these wells. Ben mentioned that endpoint sample analyticals were clean. asked Ben to submit sample analytical summary table and scaled site map with locations of endpoint samples and wells. also asked him to include approx. location of tank and dispenser islands.

received email from Ben with sample analytical summary table with site plan showing endpoint sample and well locations. site plan shows that wells were installed in front of stores on−site. but no well observed during site visit, but found some fresh patches in concrete (which could be location of wells).

received call from Mr. Joffe. asked him to submit remedial action report by the end of March 06, 2009. he mentioned that area between his property and houses along Lorimer street is a commercial property at 297 Meeker Ave which is a paint shop.

02/18/09−Hiralkumar Patel. received email from Ben. they will do well sampling on 02/20/09.
02/20/09−Hiralkumar Patel. visited site. met Mr. Joffe and John (FPM group). monitoring wells found in front of store. groundwater was found around 6−7 ft bg. found sheen on water from each wells. will submit sample analyticals and groundwater flow direction.

during site visit, noticed an auto repair shop at 59 Frost Street. met store manager. site has one 275 gal waste oil AST. tank is

not registered. asked manager to register tank. sent email to DEC Jacob regarding un−registered waste oil tank at 59 Frost St. no parts cleaning operation at the auto repair shop.

Billy Alex
Unique Auto Repair
59 Frost St
Brooklyn, NY 11211
PH. (718) 387−7537
Fax (718) 384−6180
email: uniqueauto59@gmail.com

during site visit, Mr. Joffe mentioned that site at 297 Meeker Ave runs from Meeker Ave to Frost Street, between the subject gas station and house at 684 Lorimer st where contaminated water was found. Mr. Joffe mentioned that there is painting business at 297 Meeker Ave.

owner's address for 297 Meeker Ave, from property shark:

Wanda Berry
56 Frost St.
Brooklyn, NY 11211
Ph. (516) 627−4245

owner's address for 297 Meeker Ave, from ACRIS:

Wanda Berry
PO Box 131
Manhasset, NY 11030−0131

02/23/09−Hiralkumar Patel. received email from Mr. Joffe. he found from NYC DOB that site across frost st was dry cleaner and had seven 1000 gal USTs.

03/06/09−Hiralkumar Patel. received remedial action report from Ben. abstract:

− 186.34 tons of contaminated soils were excavated from southern portion of the former UST area and in proximity to the location of a reported former fuel dispensing island
− two endpoint bottom samples and four endpoint sidewall samples collected from excavation
− found some contamination in endpoint bottom sample from north end of excavation
− additional soil was removed from the north end and collected additional endpoint bottom sample
− sidewall samples were taken at 7 ft bg and bottom samples taken at 11 ft bg (means bottom endpoint samples were taken below water table)
− three monitoring wells (MW−1 through MW−3) were installed in proximity to the former soil boring locations B1 through B3 (borings that done during subsurface investigation in 2007)
− well MW−2 installed at previous boring B1 and MW−3 installed at previous boring B3
− wells were installed to a depth of approx. 14 ft bg and completed with ten feet of screen

− groundwater was found at around 8 ft depth <−−−−−−−−−−−−
− site−specific groundwater flow direction is to the northeast <−−−−−−−−−−−
− no free−phase product or other visible indications of potential contamination were observed
− found MTBE contamination in all three wells

−−−−−−−−−MTBE
MW−1−−−−−−12
MW−2−−−−−150
MW−3−−−−−−50

report missing scaled site map.

03/13/09−Hiralkumar Patel. spoke with Ben at FPM. asked him to subimt scaled site map with all previous sampling/well locations. asked Ben about any dewatering as soil was removed from below water table also. Ben mentioned that water was coming into excavation so slowly. they were removing soil from excavation and wait till water from excavation bucket drain out before loading soil for disposal. so no dewatering happened.

summary: during all previous investigations, highest contamination was found towards the west end of property, in close proximity to existing well MW−2. and MW−2 is the downgradient well at the property edge.

based on results of high soil and groundwater contamination in area of MW−2 and groundwater flow direction, requires off−site groundwater investigation. requires off−site well downgradient from existing well MW−2.

spoke with Mr. Joffe. explained him findings of previous investigations and asked him for one more well downgradient from well MW−2.

sent letter to Mr. Joffe requiring delineation of possible soil and groundwater contamination, downgradient from well MW−2. letter emailed to Mr. Joffe and Ben.

03/27/09−Hiralkumar Patel. received email from Mr. Cancemi with site map including location of proposed downgradient well.

03/30/09−Hiralkumar Patel. received email from Mr. Cancemi. he is planning to install well on April 08, 2009. sent email to Mr. Cancemi approving proposed location.

05/11/09−Hiralkumar Patel.

1:35 PM:− received report from Mr. Cancemi. abstract:

− off−site well installed (MW−4), about 20 ft downgradient from well MW−2
− well installed to a depth of approx. 14 ft bg with 10 ft of screen
− soil generally consisted of fine to medium−grained silty sand with gravel and trace amount of clay. brick, wood, coal, ash and concrete fragments were noted in the entire screen interval, but were more abundant in the top five ft of boring
− faint petroleum odors and PID responses were noted on soils from 8 to 9 ft interval; no odor or PID noticed in other intervals
− groundwater was found at approx. 7.5 ft bg <−−−−−−−−

− one soil sample collected just above water table and one at 8−9 ft depth (below water table)
− no free product observed in any wells on site
− groundwater flow towards northeast <−−−−−−−−−
− 1,400 ppb of MTBE found in soil sample at 8−9 ft depth
− 98 ppb of MTBE found in groundwater sample from MW−4

05/29/09−Hiralkumar Patel.

10:46 AM:− sent letter to Mr. Joffe requiring surrounding area site map (with possible off−site source) and quarterly groundwater monitoring and sampling for a period of one year (including wells gauging during each sampling events to define site specific groundwater flow direction). letter emailed to Mr. Joffe and Mr. Cancemi.

09/24/09−Hiralkumar Patel.
3:20 PM:− spoke with Ben. they submitted proposal to Mr. Joffe but hasn't heard back.
3:22 PM:− spoke with Mr. Joffe. he will ask Ben to conduct groundwater sampling.

09/29/09−Hiralkumar Patel.
12:13 PM:− received email from Ben. he will sample wells on 10/01/09. he mentioned that previous samples were analyzed for VOCs only as gasoline spill was the cause. he asked whether SVOC analysis needed for groundwater samples.
12:45 PM:− sent email to Ben to analyze samples for VOCs only.

12/01/09−Hiralkumar Patel.
3:26 PM:− spoke with Mr. Joffe. he spoke with Ben today. Ben is preparing report. asked Mr. Joffe to submit report by the end of 12/11/09.

12/02/09−Hiralkumar Patel.
11:20 AM:− received quarterly groundwater sampling reprt from Ben. sampled all four wells in Oct. 2009. minor MTBE contamination found in samples. will sample all wells again in Jan. 2010.
12:42 PM:− sent email to Ben asking to submit next quarterly report by end of Feb. 2010. email copied to Mr. Joffe.

12/11/09−Hiralkumar Patel.
11:20 AM:− received email from Ben including site map showing surrounding area use.

01/25/10−Hiralkumar Patel.
3:41 PM:− received message from Daniel Cole (212−341−0964) from NYC DEP. he mentioned that subject site is e−designated and currently reviewing closure report. Mr. Cole wants to know spill status.

01/26/10−Hiralkumar Patel.
2:40 PM:− received email from Ben. they collected second round of groundwater sampling last week and will submit second quarterly report once lab data is available.
3:06 PM:− spoke with Mr. Cole. Mr. Cole asked if DEC requires anything more than quarterly monitoring. informed Mr. Cole that the department may require additional work based on quarterly groundwater sampling reports. Mr. Cole mentioned that owner did air monitoring. asked Mr. Cole to send copy of air monitoring report. he will email the report.

02/11/10−Hiralkumar Patel.
8:23 AM:− received second quarterly report from Ben. minor MTBE contamination found in groundwater samples (MW−3: 20 ppb, MW−4: 40 ppb). will sample wells in Apr. 2010.

05/12/10−Hiralkumar Patel.
1:56 PM:− received third quarterly report from Ben. minor MTBE contamination found in groundwater samples (MW−3: 23 ppb, MW−4: 57 ppb). will sample wells in July 2010.

08/05/10−Hiralkumar Patel.
8:57 AM:− received fourth quarterly report from Ben. minor MTBE contamination found in groundwater samples (MW−3: 20 ppb, MW−4: 25 ppb).

based on submitted documents, case closed.
2:50 PM:− spill closure letter emailed to Mr. Joffe. email copied to Ben.

Map Identification Number 44 **BRUMAR SHEET METAL INC** **Spill Number: 0212132** **Close Date: 09/26/2006**
498 LEONARD STREET BROOKLYN, NY 11222 TT−Id: 520A−0040−325

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1245 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: 498 LEONARD ST
Revised zip code: NO REVISION MADE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: JILL HUEY − BRUMAR SHEET METAL INC
Spiller Phone: (718) 782−9052
Notifier Type: Tank Tester
Notifier Name: DAVE FAZIN
Notifier Phone: (516) 939−2959 ext. (
Caller Name: DAVE FAZIN
Caller Agency: CROWN LEAK DETECTION
Caller Phone: (516) 939−2959
DEC Investigator: VSZHUNE
Contact for more spill info: JILL HUEY
Contact Person Phone: (718) 782−9052

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
03/10/2003		TANK TEST FAILURE	2−608752	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

RECCOMEND CLEAN TANK DISCONNECT PIPING AND RETEST

DEC Investigator Remarks:

01/27/2006 Kuldeep received the Fax from Brumer, but again information
not adequate and need more follow up.
01/23/2006 Kuldeep sent a letterfor more information.

01/09/2006 Kuldeep Gupta− Facility Faxed on −01/06/2006 copy of consent Order.
Region 2 Nick Lombardo on 01/09/2006 Faxed Report of 5000 gallon Tank Test
report of 01/05/2004.

01/06/06 Kuldeep Gupta talked to Ms. Jill Huey and she need a letter in writing
what document we need. She wanted to fax it at 1−718−486−6862. DEC Faxed the
letter as requested. Kuldeep discussed with Philip Lodico Senior Attorney DEC
and found Consent order signed on 03/24/2003 for not this spill.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
Does not appear on PBS database. Called Jill Huey. She stated that she received
a Consent Order to bring the facility in compliance with state laws. The tank
is 5000 gallons. 3/11/2003 ars.

DEC Sigona sent TTF notice on March 14, 2003.

9/11/06 This case was transfered from Albany to Region 2. Zhune spoke to Jill Huey (ph: 718−9052) She doesn't want phone calls.
She wants every thing by writing. 9/11/06 A TTF letter was sending to :
Jill Huey
498 Leonard Street
Brooklyn, NY 11222

09/18/06 Ms. Huey sent a package of documents the passing tank test from 2003 was missing. 09/19/06 I sent a letter requesting
her the tank test results from 2003.
09/22/03 Ms. Huey sent a package of 8 pages including the passing tank test results from 2003, letters stated the fallowing: The
system test passed. After the system test failed in October due to a vent bad line, we decided to replace all pipes just to be
sure we would pass. Also we would like to convey to your department that no contamination was detected in our system.

What was the cause of the tank test failure on March 3, 2003?
Water in tank issue. Piping needed to be replaced was replaced and systems test passed as a result of replacement.

09/27/06 This case was closed for V. Zhune in accordance with J. Vought.

Map Identification Number 45 **CLOSED−LACKOF RECENT INFO** **Spill Number: 8706710** **Close Date: 03/04/2003**
275 NORTH 8TH ST. NEW YORK CITY, NY TT−Id: 520A−0046−974

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1899 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: OUR LADY OF MT. CARMEL
Spiller Phone: (718) 384−0223
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: ADMIN. CLOSED
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/06/1987		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

5K TANK FAILED WITH A HIGH VOLUME LEAK, WILL EXCAVATE, ISOLATE, AND RETEST. CONTACT: FR. CASSARO (718) 384−0223. CLOSED DUE TO LACK OF ANY RECENT INFO− DOES NOT MEET ANY CLEAN UP REQUIREMENTS.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ADMIN.CLOSED"
03/04/2003−Closed Due To The Nature / Extent Of The Spill Report

Map Identification Number 46 **AUTOMOTIVE HIGH SCHOOL − TTF** **Spill Number: 0900454** **Close Date: 03/22/2011**
50 BEDFORD AVENUE BROOKLYN, NY 11222 TT−Id: 520A−0226−135

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2065 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: KEVIN BOGER − NYC SCHOOL CONSTRUCTION AUTHORITY
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: LXZIELIN
Contact for more spill info: JOSE ORCENI
Contact Person Phone: (201) 797−1909

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/13/2009		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

TANK TEST FAILURE ON A 1000 GALLON UST UNK IF ANY PRODUCT WAS SPILLED.

DEC Investigator Remarks:

4/24/2009 TTF letter sent to:
NYC Dept of Field Operations − Fuel Division
Mr. James Merlo
44−36 Vernon Blvd
Long Island City, NY 11101

6/12/09. J.Krimgold reviewed and approved the proposed scope of work outlined in the letter report submitted by TRC and dated June 2, 2009.

01/28/10. J.Krimgold reviewed the SIR dated 08/07/09 and concurs with conclusions and recommendations of the report. However, requested closure of waste oil tank and submittal of appropriate Bulk Storage Application.

02/17/11 − LZ

The waste oil tank was permanently closed in place (edocs), which meets DEC requirements. An application was submitted to change the status of the tank. However, it has been returned to the applicant since the tightness test for another tank at the facility is overdue.

The spill case is closed.

Map Identification Number 47 **PS 610** **Spill Number: 0004062** **Close Date: 03/21/2005**
50 BEDFORD AVENUE BROOKLYN, NY 11222 TT−Id: 520A−0044−918

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2065 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: NONE
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name: JOHN LEDDY
Notifier Phone: (516) 321−4670
Caller Name: JOHN LEDDY
Caller Agency: PROTEST ENTERPRISES
Caller Phone: (631) 321−4670
DEC Investigator: TJDEMEO
Contact for more spill info: FRANK CARDELLO
Contact Person Phone: (718) 391−6832

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/30/2000		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	20000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

tank test failure, no product leaked

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"

3/21/2005 This spill number (tank test failure) is being closed out and consolidated with a new spill (#0413160) which involves the removal of this tank and contaminated soil found around it.

Map Identification Number 48 **SHELL** **Spill Number: 8900824** **Close Date: 04/30/1991**
2 BUSHWICK AVENUE BROOKLYN, NY TT−Id: 520A−0051−719

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2099 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 2 BUSHWICK AVE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Tank Tester
Caller Name: W T KLEIN
DEC Investigator: SULLIVAN

Spiller: SHELL OIL
Notifier Name:
Caller Agency: FRANKLIN CONTRACTOR
Contact for more spill info:

Spiller Phone: (516) 942−4122
Notifier Phone:
Caller Phone: (718) 762−5200
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
04/26/1989	04/30/1991	TANK TEST FAILURE	2−190411	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

550 GALLON TANK FAILED TANK AUDITOR WITH A LEAK RATE OF .10GPH, WILL EXCAVATE & REPAIR & RETEST, POSSIBLE PIPE LEAK,DEC INVESTIGATED SITE.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 49 **810 METROPOLITAN AVE** **Spill Number: 9404715** **Close Date: 11/22/1994**
810 METROPOLITAN AVENUE BROOKLYN, NY TT−Id: 520A−0041−463

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2241 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: MERIT SERVICE STATION
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: ELLEN PENNA
Caller Agency: TYREE
Caller Phone: (516) 249−3150
DEC Investigator: O'DOWD
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/06/1994	11/22/1994	TANK TEST FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

ISOLATE/RETEST

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 50 **BUSINESS** **Spill Number: 0510292** **Close Date: 01/25/2006**
32 BEADEL STREET BROOKLYN, NY TT−Id: 520A−0046−485

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2316 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Fire Department
Caller Name: MARLON JOSEPH
DEC Investigator: JMKRIMGO

Spiller: MARLON JOSEPH − BUSINESS
Notifier Name: MARLON JOSEPH
Caller Agency: PETROLIUM TANK CLEANERS
Contact for more spill info: MARLON JOSEPH

Spiller Phone: (646) 772−7949
Notifier Phone: (646) 772−7949
Caller Phone: (646) 772−7949
Contact Person Phone: (646) 772−7949

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/30/2005		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

ABOVE LIQUID LEAK.

DEC Investigator Remarks:

TTF Ltr sent to:

Alberts Plating Works Inc.
32 Beadel St
Brooklyn, NY 11222

Attn: Super/Facility Manager

1/12/06. J.Krimgold reviewd the letter−report dated January 9, 2006 and submitted by Middleton Environmental, Inc (631−321−4349). The report stats that the tank (UST) failed the test due to the leak in the ullage and that three soil samples taken beneath the tank do not show contaminant concentration above NYSDEC TAGM levels. It also suggests that the spill case can be closed once documentation for UST closure submitted to the Department. This report was not approved by the Department due to the lack of the following information:

Soil samples location (lateral and vertical).
Soil sampling at the fill port and along the fill line.
Boring logs.
Scaled site map.

1/25/06. J.Krimgold reviewed a letter report dated January 25, 2006 and submitted by PTC,Ltd.
According to the report, the perforations of the tank shell was found at the top of the tank. Samples were taken through the tank bottom and did not show contaminant above TAGM levels. NFA letter.

Map Identification Number 51 **COOPER PARK −NYCHA** **Spill Number: 9515837** **Close Date: 06/10/2008**
295 JACKSON ST BROOKLYN, NY TT−Id: 520A−0046−200

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2357 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: CALLER − NYC HOUSING AUTHORITY
Spiller Phone: ext. 8480
Notifier Type: Responsible Party
Notifier Name: SEBASTIAN LOREFICE
Notifier Phone: (212) 306−3233
Caller Name: SEBASTIAN LOREFICE
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3233
DEC Investigator: jkkann
Contact for more spill info: FRANK OCELLO
Contact Person Phone: (212) 306−3233

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/11/1996		TANK TEST FAILURE	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	20000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

no apparent leak − tank failed

DEC Investigator Remarks:

12/16/05: This spill transferred from J.Kolleeny to S.Kraszewski.

07/28/06: NYCHA update summary states that two 20K USTs installed in 1953 and store #2 oil are currently in service. Both spills due to TTFs caused by leaking man way gasket. Both repaired and retested. The tanks are rescheduled for testing in 2007. No site assessment available. NYCHA recommends a site assessment be performed during tank replacement. − SK

09/26/06:Site status summary provided to DEC by NYCHA indicates that two monitoring wells are on site and that water/oil mixture is being bailed. Site was therefore identified as a high priority. Site transferred from S. Kraszewski to J. Kann − JK

6/10/08: J.Kann − spill closed and consolidated with 9515713.

Map Identification Number 52 **COOPER PARK HOUSING −NYCHA** **Spill Number: 9515713** **Close Date: 09/14/2009**
295 JACKSON ST BROOKLYN, NY TT−Id: 520A−0046−199

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2357 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: PAUL GOLDSTEIN − NEW YORK CITY
Spiller Phone: (212) 306−3233
Notifier Type: Local Agency
Notifier Name: PAUL GOLDSTEIN
Notifier Phone: (718) −
Caller Name: PAUL GOLDSTEIN
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3233
DEC Investigator: jkkann
Contact for more spill info: PAUL GOLSTEIN
Contact Person Phone: (212) 306−3233

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/07/1996		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

12/16/05: This spill transferred from J.Kolleeny to S.Kraszewski.

07/28/06: See DEc remarks for spill #9515837. − SK

5/21/08: J.Kann − site reassigned to J.Kann. Investigative work Plan received.

6/10/08: Spill 9515837 closed and consolidated with this spill.

8/18/09: J.Kann − Site Assessment report submitted in June 2009. Report indicates sheen of product in one well (MW−1). Two other groundwater monitoring wells sampled and results indicate no exceedances. Follow up observations performed by the consultant indicate that the sheen was no longer present in August 2009. A site visit is planned for August 21 to observe groundwater sampling of the well.

9/14/09: J.Kann − Site visit made on 8/21. No oil sheen present in the well (MW−1). Malcolm Pirnie sampled well. Summary of analysis submitted on 9/11. Information provided indicated all concentrations below guidance. Based on information received, spill closed.

Map Identification Number 53 **COOPER PARK −NYCHA** **Spill Number: 9414384** **Close Date: 03/29/1996**
295 JACKSON ST BROOKLYN, NY TT−Id: 520A−0046−198

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2357 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYC HOUSING AUTHORITY
Spiller Phone: (212) 306−3142
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: SEBASTIAN LORIFICE
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3233
DEC Investigator: HEALY
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
01/31/1995		TANK TEST FAILURE	2−474630	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
002		Unknown	0.00	UNKNOWN

Caller Remarks:

TANK TEST−GROSS FAILURE

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

10/10/95: This is additional information about material spilled from the translation of the old spill file: TTF.

Map Identification Number 54 **COOPER PARK** **Spill Number: 9414271** **Close Date: 03/29/1996**
295 JACKSON ST BROOKLYN, NY TT−Id: 520A−0046−201

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2357 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYC HOUSING AUTHORITY
Spiller Phone: (212) 306−3142
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: SEBASTIAN LORIFICE
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3233
DEC Investigator: HEALY
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
01/27/1995		TANK TEST FAILURE	2−474630	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
001		Unknown	0.00	UNKNOWN

Caller Remarks:

TANK TEST FAILURE − COULD NOT MAINTAIN LEVEL

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

10/10/95: This is additional information about material spilled from the translation of the old spill file: TTF.

Map Identification Number 55 **F N W MECHANICAL** **Spill Number: 0306649** **Close Date: 11/13/2006**
139 NORTH 10TH STREET BROOKLYN, NY 11211 TT−Id: 520A−0048−059

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2554 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 139 NORTH 10TH ST
Revised zip code: NO REVISION MADE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Tank Tester
Caller Name: PHIL FAZIN
DEC Investigator: BKFALVEY

Spiller: FRANK − FRANK DROSS
Notifier Name: PHIL FAZIN
Caller Agency: A−1 CROWN LEAK CORPOATION
Contact for more spill info: PHIL FAZIN

Spiller Phone: (718) 384−5751
Notifier Phone: (516) 375−5890
Caller Phone: (516) 375−5890
Contact Person Phone: (516) 375−5890

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/23/2003		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	3000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

RECOMMEND TO UNCOVER−EVALUATE AND RE−TEST

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"
9/23/03, ROSSAN; DDO: Tank test failure letter was prepared and

sent to:

Mr. Frank Dross

F N W Mechanical

139 North 10th Street

Brooklyn, NY 11211

Ed.

10/3/05: CBN
Called Phil Fazin, the tank tester and was told he would get back to DEC with more info.

9/22/06 ttf letter sent to owner:
Sandra Maislen
San Ten Raz LLC
120 Pleaseant St., Apt. 2
Brookline, MA 02446 bf

11/13/06 On 10/12/06, received letter from Sandra Maislen in response to ttf letter. Reviewed letter and the attachments. The fill line, stick line, and vent line failed. I called Petroleum Tanks to see if they remember detecting any contamination when lines were replaced. I was told Mark Salamack was the person in charge of the tank repairs. He was in a meeting at the time of the call and I left a message for him to call me. Mr. Salamack (718−624−4842) called me back and told me that there was no observed contamination and no elevated reading on the PID meter used at the time of the repairs. NFA. bf

CLOSED STATUS UNKNOWN CAUSE SPILLS AND OTHER CAUSE SPILLS IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 56 **TRANSMISSION MANHOLE 71303** **Spill Number: 1011703** **Close Date: 04/19/2011**
MEEKER AND RICHARDSON ST QUEENS, NY TT−Id: 520A−0265−108

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / RICHARDSON ST
Revised zip code: 11222

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name:
DEC Investigator: RWAUSTIN

Spiller:
Notifier Name:
Caller Agency:
Contact for more spill info: ERT

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/23/2011		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	31.00	GALLONS	0.00	GALLONS	
OTHER	OTHER	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

water and fluid mix in transmission manhole, investigation ongoing. clean up complete

DEC Investigator Remarks:

4/19/11 − Austin − 31 gals. cable oil found on 800 gals. water in vault − Source not found − Con Ed contained and cleaned up the

spill − see eDocs files for more details − spill closed − end

Map Identification Number 57 **SERVICE BOX** **Spill Number: 0008222** **Close Date: 03/27/2001**
87 RICHARDSON ST BROOKLYN, NY TT−Id: 520A−0047−904

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 313 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR DELLACROSE
Notifier Phone:
Caller Name: STEVE ROMARO
Caller Agency: CON ED
Caller Phone: (212) 580−6763
DEC Investigator: KMFOLEY
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/13/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER REPORTING A SPILL OF MATERIAL FROM AN UNK SOURCE CONED#133919 SAMPLES TAKEN CLEAN UP PENDING LAB RESULTS NO CALLBACK NECESSARY

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
e2mis Notes:

1 pint unknown oil on 300 gallons water. Appears to be contained to structure. Oil ID not able to be run due to insufficient amount of material recovered. PCB sample <1ppm. Cleanup completed by double washing with slix. Liquids and solids removed by tanker and vactor. No leaking equipment. KMF 4/3/01.

Map Identification Number 58 **MANHOLE (UNK #)** **Spill Number: 0001500** **Close Date: 09/21/2001**
87 RICHARDSON ST BROOKLYN, NY TT−Id: 520A−0047−903

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 313 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR PACE
Notifier Phone:
Caller Name: BRIAN JOYCE
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: BRIAN JOYCE
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/05/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ABOVE MATERIAL DISCOVERED AT ABOVE LOCATION. AMOUNT REPORTED

AS 3 OUNCES. MATERIAL ONTOP OF 3 GALLONS OF WATER. SAMPLE TAKEN

AND CLEANUP IS PENDING RESULTS. CON ED # NOT AVAILABLE.

NO CALL BACK REQUESTED.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis #131243 Notes:

5−5−00 1/2pt unknown oil on 3gal water. Liquid sample taken returned <1ppm PCB. CLeanup completed by double washing with slix.
Liquids removed by tanker, solids by vactor. No leaking equipment.

Map Identification Number 59 **COMMERCIAL PROPERTY** **Spill Number: 0408368** **Close Date: 07/25/2005**
120 NEWTON AVENUE BROOKLYN, NY TT−Id: 520A−0044−682

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 373 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 120 NEWTON ST
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: MR. ANTHONY GERENIO − 120 NEWTON STREET, LLC
Spiller Phone: (718) 641−1098
Notifier Type: Other
Notifier Name: ROMEO SANTOS
Notifier Phone: (718) 857−3100
Caller Name: ROMEO SANTOS
Caller Agency: DON CARLO ENVIRONMENTAL S
Caller Phone: (718) 857−3100
DEC Investigator: JMKRIMGO
Contact for more spill info: MR. ANTHONY GERENIO
Contact Person Phone: (718) 641−1098

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/29/2004		OTHER	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

during excavating found unknown petro. strong odor of petro; had a previous spill in 1998:

DEC Investigator Remarks:

11/01/04. J.Krimgold spoke to Mr. Romeo Santos (a consultant for the owner). They were called to do phase 1 and 2 site assessment. While excavating a test pit a UST filled with water and dark contaminated soil was found. Also noted a strong sulfuric or methane odor. They took a sample for ID from UST and will analyze soil to ID contamination. Will get back whith results on 11/5/04.

03/08/05. J.Krimgold spoke to Danny Singh (718−857−3100)from Don Carlo Env. Serv. Inc. 1,500 tons of contaminated soil was excavated. The size of excavation is ~70x40' to a depth of GW at ~ 11'. They are prePairing a Work Plan to fully investigate (deliniate) area of contamination. Should be ready in 2 weeks. Report also will be send to DEP for rezoning.

7/25/05. J.Krimgold reviewed the Pase II Investigation Report submitted on June 2, 2005 by Don Carlo Env. Services, Inc. (718−857−3100). 1523 tons of contaminated soil were removed and disposed of. Post excavation soil and groundwater sampling did not show contaminant levels above TAGM. NFA letter.

Map Identification Number 60 **Spill Number: 9900802** **Close Date: 08/10/1999**

392 LEONARD STREET BROOKLYN, NY TT−Id: 520A−0051−715

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 388 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 392 LEONARD ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller:
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: MR TUROFF
Caller Agency: TRINITY PETROLEUM
Caller Phone: (718) 257−8470
DEC Investigator: SMSANGES
Contact for more spill info: UNKNOWN
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/21/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MOTOR OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT DURING REMOVAL OF 550 GAL TANKS CONTAMINATED SOIL WAS FOUND.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
5/19/99 SPOKE TO REED TUROFF (TRINITY CONSULTING − 718−257−8470) HE SAID THE OLD TANKS WERE PULLED IN APRIL. SINCE A PROBLEM WAS FOUND, NO NEW TANKS HAVE BEEN INSTALLED AND THE OWNER & OPERATOR ARE IN DISCUSSIONS AS TO WHO IS RESPONSIBLE AND WHAT WILL BE DONE. ACCORDING TO MR. TUROFF, THE OPERATORS ARE: KAY SINGH AND K. JANGI (718−388−3329). OWNERS ARE: DIMITRI (DAVID) SHTAIRMAN AND WALTER ROMANSKY (718−388−3464)

7/28/99 SPOKE WITH DIMITRI SHTAIRMAN − HE SAYS A NEW LEASE WAS SIGNED WITH KAY SINGH FOR THE STATION AND MR. SINGH AS OPERATOR IS RESPONSIBLE FOR ALL ENVIRONMENTAL WORK ON THE SITE.

DIMITRI SAYS THAT ALL CONTAMINATED SOIL HAS BEEN DUG OUT AND REMOVED. HE SAYS END POINT SAMPLES OF THE OPEN HOLE WERE TAKEN BY ASTEM LAB INC (DR. NORMAN MUNROE 718−459−3770). RIGHT NOW THE SITE HAS A LARGE OPEN HOLE AND THEY ARE NOW WAITING FOR THE CONTRACTOR TO INSTALL THE NEW TANK & SYSTEM, BACKFILL AND REPAVE THE SITE.

8/10/99 − ASTEM LABORATORIES, INC. SUBMITTED A REPORT SHOWING 6 END POINT SAMPLES (1 EACH SIDE, 2 BOTTOM) TAKEN FROM PIT WHERE 550 TANKS WERE. ALL SAMPLES WERE TESTED FOR 8021 + MTBE. ALL RESULTS INDICATE BTEX AND MTBE WERE <50 PPB.

CLOSE OUT (CPT SAYS OK)

Map Identification Number 61 **CONSTUCTION SITE** **Spill Number: 0610686** **Close Date: 08/26/2010**
392 LEONARD STREET BROOKLYN, NY TT−Id: 520A−0051−713

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 388 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 392 LEONARD ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: GABRIEL KAPUR − CONSTUCTION SITE
Spiller Phone: (917) 682−3753 ext. 0
Notifier Type: Police Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RVKETANI
Contact for more spill info: GABRIEL KAPUR
Contact Person Phone: (917) 682−3753 ext. 0

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/20/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER REPORTS A CALL REGARDING LARGE PUDDLES OF GASOLINE AT THIS SITE: SERVICE NUMBER 1516668

DEC Investigator Remarks:

Vought was on off hours

8/16/10 − Raphael Ketani. The spill was called in on 12/20/06 by the NYPD and Gabriel Kapur of the NYCDEP (917) 682−3753. The spill was large gas puddles on the surface of the site.

The site is block and lot 2733 and 7. It was sold on 7/28/87 by Lawrence Sievers of 5 Mt. Logan Court, Farmingville, NY to Walter

Romansky and Dimitri Shtairman of 2421 East 74 Street, Brklyn, NY.

There are two PBS registrations. PBS #2−510793 is for the 278 Fuel Stop, Inc. It lists four 4,000 gal. USTs and one 550 UST as still active with gasoline and diesel. The 4,000 gal. tanks were installed in either 1972 or 1999. The 550 UST was installed in 1939. There were 4 USTs that were closed and removed in 1939. The owner of the site is 278 Fuel Stop, Inc. (718) 388−3329. The contact is Kuldeep S. Sakota (718) 388−3329/(201) 548−1658.

PBS #2−611136 is for A−1 Auto Repairs, Inc. It lists just a 275 gal. waste oil tank as being in service that was installed in 6/1/08. The owner of the site is Avtar Singh, 126 Berwood Drive, Linden, NJ 07036 (908) 486−0412. Mr. Singh is also at (718) 388−3464.

There is no paper file and there are no E−docs.

There are two other spill cases, both of which were closed by Steve Sangesland of Spills. They are #9900802 and #0310672. Case #9900802 was opened on 4/21/99 and closed on 8/10/99. It was based upon the discovery of oil contaminated soil when they pulled the 550 gal. UST. The soil was dug out and the end point samples were below 50 ppb.

Case #0310672 was opened on 12/16/03 and closed on 12/16/03. There was an annonymous call regarding someone sweeping gas into the sewers.

8/25/10 − Raphael Ketani. I made an unannounced site visit today. It was raining moderately, but I felt that it would still be possible to determine the site conditions. The site fronts on Leonard Street and on Meeker Avenue, where it parallels the Brooklyn Queens Expressway. There wasn't much to see from the Leonard Street side. There is a corrugated still building that opens onto Leonard Street. It has a sloping roof (see E−docs). The building was being used as a metal fabrication shop. The floor was clean. Next, I went to the Meeker Avenue side of "278 Fuel Stop." Even though it was raining, I didn't see any sheen on the pavement in the fueling area (see E−docs). There appeared to be some small (about 6" diameter) stains on the, but nothing else. Next, the gas station manager showed me the repair area. The area was largely try as it was mostly covered by a roof. There were several trucks in and next to the garage. I didn't see any free product on the pavement, but there were some old stains. I told the station manager to make sure that any spills that occur are cleaned up quickly. After this, I left the site.

As the spills mentioned in the original spill report are no longer present, and as there appeared to be no new spills, I have determined that there is no threat to the environment or the public. Therefore, I am closing the spill case.

Map Identification Number 62 **VS 3971** **Spill Number: 9900576** **Close Date: 04/26/1999**

BAYARD ST/LENARD ST BROOKLYN, NY TT−Id: 520A−0043−029

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 407 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: BAYARD ST / LEONARD ST
Revised zip code: 11222

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	PACE	Notifier Phone:	(212) 580−6763
Caller Name:	MIKE CESARE	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	MIKE CESARE	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/15/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

APPROX 1 ONCE OF ABOVE MATERIAL DISCOVERED AT ABOVE LOCATION.

CLEAN UP PENDING TEST RESULTS. CON ED #124261. NO CALL BACK

REQUESTED.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

Found unknown & undiaperable sheen in VS 3971 on 20 gallons of water. Spill is contained. Sump pit only in structure no sewer connection. Pressure tested VS o.k. records show V.S. to have 224 ppms (FDR 6B53)

<1.0 ppm, 4−16−99, 0400 hrs, K. Hufford flush reports in VS3971 cleanup completed.

Map Identification Number 63 **INTERSECTION FROM MANHOLE 4917** **Spill Number: 1011113** **Close Date: 02/25/2011**
MANHATTAN AVE AND FROST ST BROOKLYN, NY TT−Id: 520A−0260−387

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 413 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: MANHATTAN AVE / FROST ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: CON ED
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RWAUSTIN
Contact for more spill info: ERT
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/04/2011		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0.01	GALLONS	0.00	GALLONS	

Caller Remarks:

1 qt unknown oil to 20 gallons water − pumped to sewer drain − cleanup pending

DEC Investigator Remarks:

2/25/11 − Austin − 1 quart cable oil leak in service vault, on top of 20 gals water − Spill contained and cleaned up by Con Ed − see documents in Edocs for further information − spill closed − end

Map Identification Number 64 **COMMERCIAL LOT** **Spill Number: 0409303** **Close Date: 11/19/2004**
407 LEONARD STREET/BAYARD BROOKLYN, NY TT−Id: 520A−0044−683

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 459 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 407 LEONARD ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ANNY − COMMERCIAL LOT
Spiller Phone:
Notifier Type: Citizen
Notifier Name: ANNYOMOUS
Notifier Phone: ( ) −
Caller Name: ANNYOMOUS
Caller Agency:
Caller Phone: ( ) −
DEC Investigator: JMKRIMGO
Contact for more spill info: ANNY
Contact Person Phone:

Category: Investigation indicates there was no spill.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/19/2004		OTHER	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

CALLER STATES THAT EXCAVATION IS GOING ON AT THIS SITE AND THE ODORS ARE HORRIBLE, WOUL DLIKE SOMEONE TO CHECK OUIT: TRACKING DOWN THE ROAD ALSO;

DEC Investigator Remarks:

11/19/2004. Same site as in spill # 0130048.

Map Identification Number 65 **COMMERCIAL LOT** **Spill Number: 0130048** **Close Date: 02/18/2005**
407 LEONARD ST BROOKLYN, NY TT−Id: 520A−0051−743

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 459 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 407 LEONARD ST.
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: PATRICK FITZGERALD
Spiller Phone: (815) 338−0110
Notifier Type: DEC
Notifier Name:
Notifier Phone:
Caller Name: JACOB KRIMGOLD
Caller Agency: NYS DEC
Caller Phone: (718) 482−6389
DEC Investigator: JMKRIMGO
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/15/2001		OTHER	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER
KEROSENE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

NYSDEC has performed a subsurface investigation on adjacent property Spill # 9703488 @ 75 Richardson Ave. and determined that the motor fuel storage systems located on this property might have been a source of contamination.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
See file Eng. CO. 229 @ 75 Richardson Ave.

09/10/03. J.Krimgold spoke over the phone with Iradg Youssefinia from NY Petroleum, Inc. @ 251 Post Ave., Westbury, NY 11590 (516) 338−0626. He is a consultant/contractor preparing proposal to investigate this site for Mr. Morris Borenboum (new owner?). He will submit an investigation plan for the Departmental review.

6/16/2004 Attorney for new owner called to ask what needed to be done to close out the case. Sangesland told him to ask Krimgold. Attorney said he has a report from Dr. Yousefinia showing clean water and soil samples. Sangesland told him to mail in a copy of the report to Krimgold for review.

8/2/04. J.Krimgold has reviewed the Phase II report submitted by NY Petroleum and Driling Co. and dated 06/10/04. The report was not approved and a letter requesting to make corrections ans resubmit the report has been sent to Mr. Borenbaum and Mr. I Youssefnia.

11/01/04. J.Krimgold has reviewed a corrected report dated 09/16/04. The report still cannot be approved due to the lack of information (Phase I is missing). J.Krimgold requested an on−site meeting with a consultant.

12/03/04. J.Krimgold met with Mr. I. Youssefnia at the site and maped locations of additional soil borings.

See also 0409303. Rommel

2/18/05. J.Krimgold reviewed the Ground Water Investigation report submitted on January 13, 2005 by NY Petroleum and Drilling Corp. Based on the findings of this and previouis reports no contamination was found at this property. NFA letter.

Map Identification Number 66 **CHLORINE FACTORY** **Spill Number: 9809496** **Close Date: 02/12/2003**
126 NEWTON ST BROOKLYN, NY TT−Id: 520A−0049−637

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 474 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CHLORINE FACTORY
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: STAN STETONBURG
Notifier Phone: (718) 595−6777
Caller Name: OPERATOR 143
Caller Agency: DEP
Caller Phone: (718) 595−6777
DEC Investigator: KGHALE
Contact for more spill info:
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/28/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
CALCIUM	OTHER	0	GALLONS	0	GALLONS	SOIL
HYPOCHLORITE	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FIRE AT A CHLORINE FACTORY − FIRST REPORTED OEM LIMA 212−374−5500

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HALE"
02/12/2003− Closed Due To The Nature / Extent Of The Spill Report.

Map Identification Number 67 **MANHOLE 64805** **Spill Number: 0904192** **Close Date: 08/18/2009**
MEECKER AVE A DN FROST ST BROOKLYN, NY TT−Id: 520A−0230−843

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / FROST ST
Revised zip code: 11211

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNK	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RWAUSTIN	Contact for more spill info:	ERT	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/10/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	7.00	GALLONS	0.00	GALLONS	

Caller Remarks:

7 gallons of unk oil into manhole contained to the structure. Clean up pending sample results.

DEC Investigator Remarks:

8/18/09 − Austin − Spill of cable oil − Spill contained and cleaned up − see eDocs for details − spill closed − end

Map Identification Number 68 **59−65 FROST STREET** **Spill Number: 0212488** **Close Date: 02/14/2007**

59−65 FROST STREET BROOKLYN, NY TT−Id: 520A−0044−679

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 730 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	SAME − SAME	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	JOHN SCHRETZMAYER	Caller Agency:	ASSOCIATED ENVIROMENTAL	Caller Phone:	(631) 744−8900
DEC Investigator:	WXSUN	Contact for more spill info:	JOHN SCHRETZMAYER	Contact Person Phone:	(631) 744−8900

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/10/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL
BTEX	OXYGENATES	0	UNKNOWN	0	UNKNOWN	

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
3/19/2003 − JZ/DO: The caller was hired for a site subsurface investigation for property re−finance. Soil and GW samples was analyzed with EPA method 8260 and found contaminations. This site is currently a warehouse. There is no tank evidence. It was a dry cleaner at this location in history. There is no dry cleanner solvents found during the site assessment. Next property is a DEP's repair shop. DO has requested site assessment report snet to Sangesland.

The current owner info: Fratelli Ricatto Developement, 391 Leonard Street, Brooklyn, NY 11211−1301.

11/15/05 called John Schretzmayer and left message to call me. J Lister

11/17/05 spoke with John Schretzmayer (516−658−5304) and he will send work plan. J Lister

10/30/06 Reassigned from Lister to Sun. (MS)

11/27/06 Reviewed Groundwater Monitoring and Sampling Plan dated 10/11/06 and submitted by Hydro Tech Environmental (contact: Mark E. Robbins phone: 631−462−5866). Faxed letter report on 11/27/06 requiring the following: "It must be demonstrated that groundwater contaminant concentrations are decreasing to Groundwater Quality Standards in a reasonable time frame. Therefore, the Department requires that one (1) more round of groundwater monitoring and sampling be performed as well as an Exposure Assessment/Sensitive Receptor Survey, before the above referenced spill can be considered for closure."
VOC contamination is only observed in 2 of the 5 wells onsite and are obviously decreasing over time, however one more sampling event will confirm natural attenuation.(JS/MS)

2/12/07: NYSDEC received Exposure Assessment Report and latest groundwater analytical results on 2/9/07 and is reviewing. (JS/MS)

2/14/2007: Upon receipt and review of the Exposure Assessment Report as well as the results of the latest groundwater sampling event for this site, submitted by Hydro Tech, this spill site has been closed and a No Further Action letter has been sent to the property owner and consultant. The following is a brief summary of factors supporting this action. As stated in the Report; the source of contamination has been removed, no significat receptors or exposure pathways are present at the site, and a 90% decrease in overall VOC concentration has been observed over time. Only limited VOC contamination remains (1,3,5 and 1,2,4

Trimethylbenzene= 8.57 and 6.7 ug/L, respectively) in one monitoring well. No further action is needed, spill case is closed. (JS/MS)

Map Identification Number 69 **PAINT FACTORY** **Spill Number: 0507793** **Close Date: 09/29/2005**
415 GRAHAM AVE BROOKLYN, NY TT−Id: 520A−0040−736

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 770 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: FIREFIGHTER FENDMAN − PAINT FACTORY
Spiller Phone: (917) 769−0483
Notifier Type: Fire Department
Notifier Name: FIREFIGHTTER FENDAMAN
Notifier Phone: (917) 769−0483
Caller Name: FIREFIGHTTER FENDAMAN
Caller Agency: FIRE DEPT NY
Caller Phone: (917) 769−0483
DEC Investigator: JXZHAO
Contact for more spill info: FIREFIGHTER FENDMAN
Contact Person Phone: (917) 769−0483

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/29/2005		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PAINT	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

PAINT FACTORY IS BEING DEMOLISHED AND PAINT IS ALL OVER THE GROUND: FIRE DEPT ON SCENE: LOW LAYING GROUND. NEAR STREAMS

DEC Investigator Remarks:

duplicate spill − cross ref with 0505877 − managed by Zhao

Map Identification Number 70 **704 LORIMER ST** **Spill Number: 0106834** **Close Date: 09/25/2003**
704 LORIMER ST BROOKLYN, NY TT−Id: 520A−0047−905

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 825 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNK
Spiller Phone:
Notifier Type: Federal Government
Notifier Name: ELIZABETH CARRANO
Notifier Phone: (718) 388−9680
Caller Name: JOHN WITKOWSKI
Caller Agency: US EPA
Caller Phone: (732) 548−8730
DEC Investigator: MXTIPPLE
Contact for more spill info: MRS CARRANO
Contact Person Phone: (718) 388−9680

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/01/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

Caller states air around her home smells like teargas. She has had exposure to this and recognized the odor

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
10/02 REFERRED TO THE AIR UNIT

Map Identification Number 71 **Spill Number: 9909588** **Close Date: 03/15/2004**
354 LEONARD ST BROOKLYN, NY TT−Id: 520A−0048−943

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 852 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:		Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MARYANNE GRAPPONE	Notifier Phone:	(718) 389−9187
Caller Name:	MARYANNE GRAPPONE	Caller Agency:	CITIZEN	Caller Phone:	(718) 389−9187
DEC Investigator:	RWAUSTIN	Contact for more spill info:	MARYANN GRAPPONE	Contact Person Phone:	(718) 389−9187

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/07/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

ON GOING COMPLAINT − MARK TIBBE IS AWARE OF THE PROBLEM − NEIGHBOR MUST HAVE GOTTEN A DELIVERY RECENTLY − SEVERE OIL ODOR IN THE HOUSE

REQ A CALL FROM DEC

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"
3/15/04 − AUSTIN − SEWER SPILL FROM OVER 4 YRS. AGO − CLOSED − ORIG. ASSIGNED TO COMENALE − END

Map Identification Number 72 **Spill Number: 9814583** **Close Date: 02/19/2003**

354 LEONARD ST BROOKLYN, NY TT−Id: 520A−0048−942

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 852 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	348 OR 350 LEONARD ST	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MARYANN GRAPPONE	Notifier Phone:	(718) 389−9187
Caller Name:	MARYANN GRAPPONE	Caller Agency:	HOMEOWNER	Caller Phone:	(718) 389−9187
DEC Investigator:	COMENALE	Contact for more spill info:	MARYANN GRAPPONE	Contact Person Phone:	(718) 389−9187

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.

Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/07/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT WHENEVER NEIGHBORS HAVE OIL DELIVERED −HER HOUSE

BECOMES FILLED WITH OIL FUMES AND THEY IRRITATE HER THROAT

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 73 **INSIDE MCCARREN POOL** **Spill Number: 0907892** **Close Date: 07/02/2012**

BAYARD AND LORIMER ST. BROOKLYN, NY TT−Id: 520A−0233−017

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 858 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: BAYARD ST / LORIMER ST
Revised zip code: 11211

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	vszhune	Contact for more spill info:	CALLER	Contact Person Phone:	

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/13/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

Soil borrings determined soil and contamination.Remidiation in progress.

DEC Investigator Remarks:

10/14/09−Zhune called Michelle Lortz from Westin Solutions (732)417−5821. Left a message

10/28/09− Michelle called and said the City of New York is renovating the pool located on Bayard and Lorimer St. Westin Solutions performed a Phase II. The report will be send next month.

Project Manager Barry Schaartc 718−391−1333 with New York City Department of design and Construction.

11/13/09−Zhune spoke to Barry from DDC. He said Westin Solution is one of their contractor. They are doing Environmental soil Investigation(Phase II) at this site. The NYSParks owns this site. They want to rivise the use of the pool in the property.
Westin Solution found mild contamination around the UST Tank. The report will be sent in 3 weeks.

12/06/11− Jason Hayes called to say that they removed the 2500 gallons and took endpoint samples. They also abondoned in place the 10000 gallons tank. Report is being reviewed by Marty Rowland.

06/18/12− Phase II submitted by Weston Solutions of New York dated December 1,2009
The following conclusions were presented:

Underground Storage Area #1 (10000 −Galloons UST).− the soil and groundwater analytical results did not identified evidence of an impact to soil and groundwater associated with the 10000 gallon oil UST(UST Area 1). As per the report the elevated TAL metals in groundwater (GW−1) collected to investigate this UST are atributable to the presence of fill.

Underground Storage Area #2 (2500 −Galloons UST).−
Elevated concentrations of VOCs Toluene(34 ug/l), SVOCs (benzo (a) anthracene, (benzo (b) fluoranthene, benzo (K) fluoranthene, Chrysene, Fluoranhtene, Indeno(1,22,3−cd)pyrene and pyrene) and metals (antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, mercury, nickel, selenium, sodium, and zinc were detected in groundwater sample (GW−04) collected to investigate the former 2500 gallon UST (UST Area 2).

Propose Excavation Area #1.− The soil analytical results of the samples collected from borings SB−09, SB−10, SB−11, SB−12, SB−13,

SB−14, SB−15, SB−16, SB−17 and SB−18 in the proposed excavation Area #1 y Area #2 identified the following SVOCs ((benzo (a) anthracene, benzo (a) pyrene, benzo (b)fluoranthene,benzo (k)fluoranthene, chrysene, dibenzo (a,h) anthracene and Indeno(1,22,3−cd) and the following metals (arsenic, barium, cadmium, calcium, chromium, copper, lead, mercury, magnesium, nickel and zinc) at concentration eceeding the limit acceptable.

Elevated concetrations of SVOCs ((benzo (b) fluoranthene, benzo (K) fluoranthene, benzo (k)fluoranthene, Chrysene, Fluoranhtene, Indeno(1,22,3−cd)pyrene and pyrene and metals(antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, mercury, nickel, selenium, sodium, and zinc) were detected in the groundwater sample collected from GW−5 (Excavation Area 2) at concentration exceeding the standards.

In Filled pool Area. The soil analytical results of the samples collected from borings SB−19 and SB−20 in the filled pool area identified SVOCs, metals at concentrations exceeding the standards and the PBC Aroclor 1254 at 1.4 mg/kg in sample SB−19 and the Aroclor 1254 at 1.8 mg/kg in sample SB−20.

11/17/10− Langan Engineering sent the spill Investigation report dated 11/15/10.
Langan Conducted investigation to delineate the extent of groundwater contamination in the underground Storage Area #2. The field investigaton included geophysical survey, nine borings (EB−1 through EB−9 and the installation of three temporary monitoring wells (MW1, MW5 and MW7).

The report found that the 2500 UST could not be found by the geophysical survey in the underground storage area #2. Petroleum impacts including staining and odors were identified in borings EB−1, EB−2, EB−3, EB−5, EB−6, EB−8, EB−9. VOC's in groundwater were not detected in samples collected from monitoring wells MW−1, MW−5, MW−7.

05/15/11− Langan Engineering sent the Suplemental Subsurface Investigation Report dated 05/12/11.
Langan conducted investigation in the lines in the underground storage area #1 and #2.

Four borings (PB−1 through PB−4 were installed to investigate the lines in the 10000−gallon UST;. No VOCs were detected in any of the samples collected from sample PB−1 through PB−4.
SVOC's (Benzo a anthracene, Benzo a pyrene, naphthalene) were detected in sample PB−1(7−9 feet) and SVOC's (Benzo (a)anthracene, Benzo (a)pyrene, benzo (b) fluoranthene,benzo (k) fluoranthene and Chrysene) were detected in sample PB−4(5−7 feet) at concentration exceeding the standard.

Eight soil borings (PB−5 thrugh PB−12 were installed to investigate the lines in the area of the 2500−gallon UST. No VOC's were detected in any of the soil samples collected from boring PB−5 through PB−12. SVOCs (Benzo a anthracene, Benzo (a)pyrene. benzo (b) fluoranthene, benzo (k) fluoranthene and Chrysene) were detected in soil samples collected from borings PB−9 (13−15 feet), PB−19(8−10 feet), PB−10(12−14 feet), PB−11A(13−14 feet), PB12(8−10 feet), PB−12(12−14 feet).

VOCs 1,2,4,5 tetrametylbenzene were detected in groundwater sample collected from TMW−3 and TMW−4 and Benzene and naphthalene were found in groundwater sample collected from TMW−5 in concentrations exceeding the limit.

12/17/2011− Langan Engineering sent the UST and Spill Closure report dated December 13,2011.
Six enpoint samples were collected following the excavation and removal of the 2500−gallon UST. sample were collected from each sidewall and two samples were collected from the bottom of the excavation. The soil analitycal result indicated no VOC's exceedances, SVOCs exceedances were found in two of the six samples.

The 10000−gallon UST was abondoned in−place. No sample were collected since the subsurface around the tank has been characterized by previous investigations and no evidence of contamination has been identified.

06/05/2012− Langan Engineering sent the groundwater confirmation Sampling Report dated 06/01/2012.
Four confirmation grundwater samples around the former 2500−gallon UST were collected from four borings (GW−A through GW−D). The ground water analytical results indicated no VOCS found above the limit and SVOCs exceedances in the groudwater included benzo(b)fluoranthene, benzo (k)fluoranthene and Chrysene all of the four groundwater samples and indeno (1,2,3−cd0pyrene in three of the groundwater samples (GW−B, GW−C, GW−D). As per the report the exceedance of SVOC's in groudwater are atributable to the presence of fill. Spill Closed.

Map Identification Number 74 **PRIVATE DWELLING** **Spill Number: 0911958** **Close Date: 02/12/2010**
184 RICHARDSON STREET BROOKLYN, NY TT−Id: 520A−0248−308

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 861 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	ALEXANDRA SUMNER − UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	HRAHMED	Contact for more spill info:	ALEXANDRA SUMNER	Contact Person Phone:	(917) 386−8566

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/11/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	INDOOR AIR

Caller Remarks:

STRONG ODOR OF PETROLEUM PRODUCTS NOTICED INSIDE HOME SINCE LAST WEDNESDAY (ON THAT DAY THE ODOR WAS STRONG ENOUGH TO FORCE EVERYONE OUT OF THE BUILDING) AND HAS SINCE DECOME LESS PROMINENT BUT STILL EXISTS. NEIGBORS ACROSS THE STREET ALSO NOTICE THE ODOR, OIL COMPNAY HAS DONE AN INSPECTION AND HAS FOUND NO LEAKS INSIDE THE HOME. CALLER CLAIMS DEC INSPECTED PREMISES ON MONDAY OF THIS WEEK ALREADY (?)

DEC Investigator Remarks:

02/12/10−HRAHMED−Spoke to Ms Sumner. This is a duplicate spill of spill#0911853. As per her, the odor is less than the last time DEC investigated, but it is still there. Since the odor is musty or sewer type, I suggested her to consult with DEP to check if they have any problem in their main sewer line in that area or with a plumber to check that the sewer trap in the house is working and there is no sewer leak in the house. She said she will do that. She was referencing the meeker ave plume investigation and asking if her house can be included in the investigation. She told she will contact dave Harrington to check if he can do an investigation in her house as part of Meeker Ave plume investigation.

Based on the fact that there was no visible evidence of oil spill in her basement (checked the sump pump, drain cover, oil tank, boiler, fill port and vent line) and noticed no petroleum type of odor in her house during the last investigation on 02/08/10, the case is closed.

Map Identification Number 75 **SUMNER RESIDENCE** **Spill Number: 0911853** **Close Date: 02/10/2010**

184 RICHARDSON ST BROOKLYN, NY TT−Id: 520A−0248−305

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 861 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	ALEXANDRA SUMNER − ALEXANDRA SUMNER	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	HRAHMED	Contact for more spill info:	ALEXANDRA SUMNER	Contact Person Phone:	(917) 386−8586

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/03/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

ODOR COMING FROM THE SEWER AND WELL IN THE BASEMENT. FUEL COMPANY CANNOT FIND THE SOURCE.FD WAS ON SCENE; UNKNOWN ODOR. CALLER STATES EVERY TIME IT RAINS THE WATER FROM THE NEIGHBORHOOD COMES INTO THE SEWER.

DEC Investigator Remarks:

02/8/10−Vought−Duty desk officer. DEC Austin received call from Ms. Sumner (via NYSDOH Dawn Hettrick). Ms. Sumner indicated that odors began approximately three days ago and were petroleum odors that were coming from her sewer trap. She noted that neighbor across Richardson Street also observed petroleum odors as well. She had oil company inspect her 275−gallon #2 fuel oil AST and they noted no current leakage. DEC Ahmed (runner) to perform site visit.

02/08/10−HRAHMED−Responded to the site as Daytime Runner. Met with houseowner Ms Alexandra Sumner (917 386 8586). As per her, she has been noticing strong petroleum type odor in her basement and hallway since 02/04/10. It is becoming less, but today its more like sewer odor. DEP inspector Emmanuel (718 923 2716) was at the scene. DEP received a odor complaint from resident of 177 Richardson St. But he didn’t have access to that address at that time. Went to basement with Alexandra and Emmanuel. Noticed musty odor in the basement. Checked the sump pump area, it was dry. Checked the drainage pipe, noticed no sheen. Checked the Oil tank and the burner, noticed no sign of leakage. Suggested Alexandra to ventilate the place. Spoke to the resident of 175 Richardson St. As per him he didn’t notice any odor in his residense.

Since there is no evidence to oil spill nor petroleum like odor, this case is closed.

Map Identification Number 76 **OLD PAINT FACTORY** **Spill Number: 0505877** **Close Date: 06/20/2007**
133 JACKSON AVE BROOKLYN, NY TT−Id: 520A−0051−725

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 870 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: 133 JACKSON ST
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: MICHEAL FREEMAN − OLD PAINT FACTORY
Spiller Phone: (646) 366−0881
Notifier Type: Other
Notifier Name: MICHEAL FREEMAN
Notifier Phone: (646) 366−0881
Caller Name: MICHEAL FREEMAN
Caller Agency: LAW OFFICE
Caller Phone: (646) 366−0881
DEC Investigator: lxzielin
Contact for more spill info: MICHEAL FREEMAN
Contact Person Phone: (646) 366−0881

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/12/2005		OTHER	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

A SPILL WAS CALLED IN ON MAY 17TH: AND WAS CLOSED: SPILL # 0501932: DEC OFFICER RANDY AUSTIN SAID IT NEEDS TO BE CALLED INTO SPILL DIVISION: FOUND HYDROCARBONS AT LOCATION; CLIENT WOULD LIKE TO CLEAN UP QUICKLEY:

DEC Investigator Remarks:

06−19−07 − Zielinski
The May 2007 Site Closure Report(eDocs), prepared by Environmental Business Consultants, provides information on the status of the site contamination. After tanks were removed, contaminated soil excavated, and chemical treatment conducted, endpoint samples were taken in the western part of the site(previously, the department asserted that no further action was required in the eastern part of the property). The analyses of all five collected samples revealed that at location SPW1 tert−butylbenzene was 2,000 ppb(the limit is 1,000 ppb)and
4−isopropyltoluene was 26,000 ppb (no limit in RSCO). Other analyzed constituents were within the RSCO limits. Presented in the report analyses of groundwater show significant reduction in contaminants' concentration after the chemical oxidant treatment. In downgradient located wells, exceedances include
acetone: 290 ppm in at MW−5, 420 ppm at M−19, 170 ppm at MW−20;
benzene: 6.2 ppm at MW−5, 5.4 ppm at MW−19;
bromomethane; 10 ppm at MW−5;
toluene : 47 ppm at MW−5, 180 ppm at MW−17, 11 ppm at MW−19, 35 ppm at MW−20;
isopropylebenzene: 54 ppm at MW−19,
m,p−xylene: 38 ppm at MW−17, 14 ppm at MW−19;

methylene chloride: 53 ppm at MW−17, 12 ppm at MW−20, 9.6
o−xylene: 5.6 ppm at MW−17;
The case is closed.

11/20/06 − Zielinski
Contamination from former paint manufacturing operations was found in the western half of the property. By December 2005, about 3,500 tons of contaminated soil was removed from the site. Later, dry chemical oxidant was added to the base of the excavation to attenuate residual contamination. With one exception (tertbutylbenzene in the northwest corner of the site), endpoint samples showed that these activities had been effective. Subsequently, completed on January 2006, an activated injection program was implemented at 37 locations. Between April and May of 2006, about 500 tons of impacted soil was removed from the northwest corner; 2,000 gallons of total fluids were extracted; spot treatment injection was conducted in the northwestern corner and the center of the site.
In order to complete the remediation of the site, Environmental Business Consultants (EBC), the company conducting remediation activities at the site, propose that oxidant injections will be conducted in three wells in the rear yard of the site. Laboratory analyzes will determine whether additional oxidant treatment is needed.

03−21−06 − Zielinski
By December 2005, about 3,500 tons of contaminated soil was remowed from the western part of the property. Later, on January 2006, an activated oxidant injection program, consisted of 37 injection locations in the western part of the property, was completed. The March 16 sampling showed a significant reduction in VOC contamination. To complete remediation process, additional soil from vicinity of MW 5 will be remowed and a vapor barrier will be installed. also, the groundwater monitoring at serval locations will be continued: In her April 4, 2006, e−mail to Charles Sosik, PWGS project manager, Jie Zhao had no objection to construction at the west part of the property−− she required to replace well # 15 for a long−time montoring purpose.

02/10/06 − Zielinski
On February 2, 2006, a 30−mil HDPE vapor barrier was installed, and reinforcing steel was placed above the barrier.

8/12/05 − Austin − This location had been previously called in due to the discovery of "paint waste" (spill #0501932). In conversations that I had with two consultants about that report, I directed them to the Brownsfield program. Recently, it was discovered that this was a former CBS facility that had closed out its tanks in 1998 (#2−000171, listed as 135 Jackson St.). Therefore, we are assigning this spill report to Jie Zhao for remedial review, as per Pts 596.6 and 598.10.

9/8/2005 − jz: Site Investigation Report was received on 8/23/2005. Remedial Action Plan was received on 8/26/2005. Zhao spoke to Mr. Charles B. Sosik, Project Manager from P W Grosser today. Excavate of contaminated soil to groundwater level (about 15 ft below grade) is approved by DEC. Detailed information about ORC application is required before apply which includes possible assessment of groundwater parameters. Soil excavation may start any time.

Map Identification Number 77 **CONSTRUCTION SITE** **Spill Number: 0501932** **Close Date: 05/20/2005**
133 JACKSON AVE BROOKLYN, NY TT−Id: 520A−0051−726

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 870 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: 133 JACKSON ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN NAME − GLOSS FLOW CORP.
Spiller Phone:
Notifier Type: Other
Notifier Name: LAB RESULTS
Notifier Phone:
Caller Name: DAVID YUDELSON
Caller Agency: ATTORNEY
Caller Phone: (917) 295−6449
DEC Investigator: RWAUSTIN
Contact for more spill info: DAVID YUDELSON
Contact Person Phone: (917) 295−6449

Category: Investigation indicates there was no spill.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/17/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

historical spill from an old paint factory. trimethyl benzene and napthalene found above DEC limits. The new owner of the property will be contacting someone for clean up.

DEC Investigator Remarks:

5/20/05 − Austin − Spoke with Bill Conroy of Conroy Environmental. He indicated that paint waste contamination had been found in the soil of this former paint plant. He indicated that the site may have come under USEPA action in its prior use.
I explained that since this was not a petroleum spill, it did not have to be called into the Spills Hotline. I also indicated in the phone call that he should contact Dan Walsh of the Region's Haz. Waste Remed. Section, for information pertaining to the DEC's Brownsfield program, after he contacts the USEPA to determine their role in oversight of any remediation work. The spill was closed, due to this not being a spill event or involving petroleum. − end

6/6/05 − Austin − Spoke with Mark Robbins of Hydrotech 631−462−5866). I explained to him what the status was of this particular spill report. He indicated that he would go ahead and remove the paint contaminated material, and take post−ex samples to document proper removal, after chemically characterizing the paint waste. He would keep the data for documentation purposes. − end

8/12/05 − Austin − Recnt info came to light that this was a former CBS facility. It received another spill report # (#0505877),

and will be assigned to staff for review.

Map Identification Number 78 **BRONX QUEENS EXPRESSWAY** **Spill Number: 9902395** **Close Date: 06/02/1999**
EXIT 33 MCGUINNESS BLVD BROOKLYN, NY TT−Id: 520A−0051−764

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 872 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: EXIT 33 MCGUINESS BLVD
Revised zip code: 11222

Source of Spill: COMMERCIAL VEHICLE
Notifier Type: Responsible Party
Caller Name: KATHY RICHARDS
DEC Investigator: SMMARTIN

Spiller: DIANE BAER − CANNON EXPRESS
Notifier Name: CANNON EXPRESS
Caller Agency: CANNON EXPRESS
Contact for more spill info: DIANA BAER

Spiller Phone: (800) 864−8400
Notifier Phone:
Caller Phone: (978) 897−6461
Contact Person Phone: (800) 846−8400

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/02/1999		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	30.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TRUCK RAN OVER OBJECT THAT RUPTURED SADDLE TANK−FIRE DEPT ON SCENE AND CONTAINED SPILL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
REFERRED TO NYCFD.

Map Identification Number 79 **BROOKLYN/QUEENS EXPWY** **Spill Number: 9608808** **Close Date: 02/24/2003**
AND MCGINNIS BLVD BROOKLYN, NY TT−Id: 520A−0051−760

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 872 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: BROOKLYN−QUEENS EXWY / MC GUINESS BLVD S
Revised zip code: 11222

Source of Spill: COMMERCIAL VEHICLE
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: FIRE HAZMAT
Notifier Phone: (917) 769−0483
Caller Name: MS BAILEY
Caller Agency: DEP
Caller Phone: (718) 595−6700
DEC Investigator: CAENGELH
Contact for more spill info: MR REAGAN
Contact Person Phone: (917) 769−0483

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/16/1996		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

saddle tank fell from unknown vehicle and was abandoned at site

fuel has run into sewer − caller did not know what action is being

taken at this time

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
2/24/2003 − Closed Due To The Nature / Extent Of The Spill Report

Map Identification Number 80 **IN ROADWAY** **Spill Number: 0308472** **Close Date: 11/13/2003**

BROOKLYN QUEENS EXPRESSWAY @ MCGUINNESS BLVD BROOKLYN, NY TT−Id: 520A−0051−762

BQE @ MCGUINNESS BLVD

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 872 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: I 278 / MCGUINNES BLVD
Revised zip code: UNKNOWN

Source of Spill: UNKNOWN
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Fire Department
Notifier Name: F.F. KREGLER
Notifier Phone: (917) 769−0483
Caller Name: F.F. KREGLER
Caller Agency: FDNY
Caller Phone: (917) 769−0483
DEC Investigator: CESAWYER
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/11/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

unk cause − unk source − on roadway and also did get into sewer

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"
Spill was reported to DEP because of sewer contact.

Sawyer drove past the site on his way to another spill.

Closed

Map Identification Number 81 **MANHOLE 55946B** **Spill Number: 9901924** **Close Date: 01/29/2004**
HUMBOLT ST MCGUINESS ST BROOKLYN, NY TT−Id: 520A−0043−054

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 883 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: HUMBOLDT ST / MC GUINNESS BLVD S
Revised zip code: 11222

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: FRANK MASSERIA − MANHOLE 55946B
Spiller Phone: (212) 580−6763
Notifier Type: Responsible Party
Notifier Name: MS MCQUEEN
Notifier Phone: (718) 204−4478
Caller Name: FRANK MASSERIA
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info: FRANK MASSERIA
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/19/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

spill in manhole approx 2 gal spilled contained to hole

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis no. 124978:

approx 2000 gallons of water and approx 2 gallons of oil. All contained in manhole. Chem Lab was notified and will come take samples.

X Removed/recovered liquid.

X Removed visible traces of oil.

Cleanup completed on Date: 5/24/99 at 14:00

Map Identification Number 82 **RESIDENCE** **Spill Number: 0811948** **Close Date: 02/18/2009**
684 LORIMER ST BROOKLYN, NY TT−Id: 520A−0226−081

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 929 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: hrpatel
Contact for more spill info: ANTHONY MARIANO
Contact Person Phone: (516) 379−1500

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/02/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

CALLER STATES THAT A WATER MAIN BROKE RESULTING IN HIS BASEMENT BEING FLOODED. THERE IS A SHEEN ON THE WATER, THE SUMP WAS IMPACTED.

DEC Investigator Remarks:

2 − 275 gal tanks near the front of the building basement (probably NOT the source of the problem)
Another building behind this one is vacant and had a water main break. Water flooded across the property line into this building. The basement was pumped out. Then they dug a hole in the floor near the rear of the basement to install a sump pump. The next day a mix of water with an oil sheen campe up thorugh the floor.
Anthony Mariano from Milro will schedule a site visit with Ryan Piper in the next couple of days.

02/12/09−Hiralkumar Patel. spoke with Anthony at Milro. he mentioned that due to water main brake, basement at the subject site was flooded with water and had sheen on it. FDNY Hazmat and DEP responded to the site. after initial cleanup, sump pumps set up in couple of rooms in basement. lateron sheen was observed on water in sump in bedroom which is adjacent to boiler room.

Anthony also mentioned that there is a vacant building behind subject site which was gas station in past and owner suspect that oil coming from this vacant building.

C.F.A., Inc. **building owner**
2977 Mandalay Beach
Wantagh, New York 11793
Attn.: Carmine Infante **President**
PH. (516) 779−2534 (C)
email: italym31@aol.com

spoke with Mr. Infante. he baught building in 2003 and site has two 275 gal #2 oil ASTs in basement. tanks are located towards front end of building and oily water coming through foundation in back of the basement. Mr. Infante mentioned that there is an abandoned gas station (64 Frost Street, Brooklyn) behind his building and suspect leak at the gas station.

visited site at 11 AM. met Carmine. found odors and sheen on water inside sump located in bedroom. no odors noticed in other part of basement. basement apartmet is not continuously occupied as Carmine lives in this basement apartment for couple of days in month. boiler room located behind bedroom. one sump located in boiler room. two other sumps located in room behind bathroom, on north side of boiler room. supply line for tank system at the site, runs aboveground and didn't found any spill in visible areas. no spill noticed under tank location. Carmine removed concrete and some soils from boiler room as was impacted with contaminated water. removed soil stockpiled in backyard of the building, which is behind abandoned gas station site.

asked Carmine to backfill sumps to avoid any odors inside building. Carmine choose to backfill sumps in bedroom and in boiler room. will keep sumps in adjacent room to the boiler room. also asked Carmine to test his tank system to confirm tightness of the system.

there is another commercial property (297 Meeker ave/56 Frost Street) between the subject site and the gas station site.

inspected gas station site also. found excavated area in front of on−site stores. this excavated area could be location of previous gasoline/diesel tanks. also found signs of borings on concrete surface in front of stores. gas station located at 64−66 Frost Street at the intersection of Frost street and Meeker Ave.

owner of abandoned gas station site:

Paul Joffe
Paul's LLC
318 Grand Street
Brooklyn, NY 11211
Ph. (718) 486−6916

according to building department permit record, Mr. Joffe applied for permit to convert service station into dinning location.

found two spill cases reported at the gas station site.

1. 9601530: tank test failure reported on 04/30/1996. case still open.
2. 9806871: spill called in by citizen on 09/04/1998 about abandoned tanks; tipped over. spill closed on 02/26/2003.

received call from Mr. Carter from Mr. Joffe's office. informed him about situation and asked him to provide all documents regarding spill case at the gas station site.

Nathan Carter
Ph. (718) 486−6804

02/18/09−Hiralkumar Patel. received fax from Carmine with letter from Century Utility Systems, Inc, who tested two 275 gal AST systems and found tanks tight. spoke with Carmine. he mentioned that he will keep sump in bedroom but will cover it and seal it from top. asked Carmine to seal sump property to avoid any odors inside building.

based on result of tank test and suspecting upgradient spill at abandoned gas station, case closed. refer to spill #: 9601530.

03/13/09−Hiralkumar Patel. spoke with Carmine. told him that groundwater under gas station is not flowing towards his property so whatever sheen was observed on water in sump, could be coming from somewhere else. he mentioned that no more sheen observed in sump. suggest him to close sump to prevent flooding in basement with contaminated water.

Map Identification Number 83 **FORMER GAS** **Spill Number: 0710898** **Close Date: 01/15/2008**
550 HUMBOLT ST BROOKLYN, NY TT−Id: 520A−0212−613

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 996 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 550 HUMBOLDT ST
Revised zip code: 11222

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CHRISTINE CAMARDELLA − FORMER GAS
Spiller Phone: (631) 218−0612
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: bkfalvey
Contact for more spill info: CHRISTINE CAMARDELLA
Contact Person Phone: (631) 218−0612

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/15/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

MONITORING WELLS FOUND CONTAMINATED SOIL: DEC HAS BEEN NOTIFIED:

DEC Investigator Remarks:

1/15/08 Spoke to Christine Camardella of Geologic Services Corp. (631)218−0612. The contaminated soil was found during the drilling of monitor wells. The drilling was part of the remediation project for spill 9007766. According to C. Camardella, D. Harrington, project manager for 9007766, is aware of this spill (0710898). I left message for D. Harrington informing him of the situation. No further action regarding 0710898 based on the information provided up to this point. bf

Map Identification Number 84 **MONITORING WELL** **Spill Number: 0508671** **Close Date: 12/22/2006**

550 HUMBOLDT STREET BROOKLYN, NY TT−Id: 520A−0051−766

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 996 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 550 HUMBOLDT ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name: CHRISTINE CAMARDELLA
DEC Investigator: DKHARRIN

Spiller: UNKNOWN
Notifier Name: CHRISTINE CAMARDELLA
Caller Agency: GEOLOGIC SERVICES CORP
Contact for more spill info: CHRISTINE CAMARDELLA

Spiller Phone:
Notifier Phone: (631) 218−0612
Caller Phone: (631) 218−0612
Contact Person Phone: (631) 218−0612

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/19/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

notified dave harrington of this spill, sampling shows contamination.

DEC Investigator Remarks:

12/22/2006: Consolidated under spill no. 90−07766. (Harrington)

Map Identification Number 85 **CONSTRUCTION SITE** **Spill Number: 0401691** **Close Date: 07/11/2005**
474 LEONARD STREET BROOKLYN, NY TT−Id: 520A−0040−516

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1018 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Citizen
Caller Name: ROLPH CARL
DEC Investigator: JMKRIMGO

Spiller: ROLPH CARL − MANHATTEN AVE/
Notifier Name: ROLPH CARL
Caller Agency: CITIZEN
Contact for more spill info: ROLPH CARL

Spiller Phone: (718) 383−7489
Notifier Phone: (718) 383−7489
Caller Phone: (718) 383−7489
Contact Person Phone: (718) 383−7489

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/14/2004		OTHER	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	POUNDS	0	POUNDS	GROUNDWATER

Caller Remarks:

LOT & BLOCK IS 2698 & 1: DIGGING AT THIS SITE AND CALLER STATES, THAT DARK, OILY SMELLING, THICK SUBSATNCE IS THERE AND IS CONCERNED, CLOSE TO A PARK:

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"
Citizen gave a contact telephone number that was on a sign at the site: 718−641−1098. Sangesland called this number and spoke to a woman who said she was the managing agent for the site. She was given the DEC Hotline number and told to call in and to provide all of the contact info for the property owner and environmental company who is on line to do the work.

5/19/2004 Sangesland received a call from Bazel Sagos of Riverkeepers (845−424−4149 ext.230) He asked for a status update on the site and wanted to know what work was going to be required by the property developer to clean the site.

5/20/04 − Sawyer − Responded to the site on 5/19 and met Mr. John Sindone who works for the owner. We walked all over the excavation and did not find any indication of contamination. I looked at the phase one and II for the site done by Don Carlo Environmental and checked with PTC who had pumped out water from in the excavation. PTC said they remove 800 gallons of 95% water from the pit on the 5/17, the rest was soil and an oil sheen.

6/09/04 − Sawyer − Received copies of the Phase I & II as well as the tank closure report for the above property. There is no indication of finally removing elevated levels of semi volatiles that came back high with from pseudo endpoint samples. I called up Danny from Don Carlo and I am having him get me 1) Clean end point Samples, 2) Information on disposal of dirt from site, and 3) Groundwater samples to make sure of water quality there.

7/11/05. J.Krimgold reviewed the Subsurface Remediation Report submitted by Don Carlo Environmental Services, Inc on June 2, 2005. According to the report remediation of this site has been completed. Post excavation end−point samples bellow TAGM levels. NFA letter.

Map Identification Number 86 **EXCAVATION** **Spill Number: 0508101** **Close Date: 10/06/2005**

140 JACKSON STREET BROOKLYN, NY TT−Id: 520A−0040−740

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1025 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller:
Spiller Phone:
Notifier Type: Fire Department
Notifier Name: BROOKLYN FIRE DEPT #216
Notifier Phone: (718) 636−1702
Caller Name: BROOKLYN FIRE DEPT #216
Caller Agency:
Caller Phone: (718) 636−1702
DEC Investigator: SMSANGES
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/06/2005		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

AT THIS LOCATION THEY ARE REMOVING CONTAMINATED SOIL AND PUTTING IN DUMP TRUCKS AND TAKING AWAY: CALLER WANTS TO KNOW IF IT IS

LEGAL AND IF THEY NEED OR HAVE PERMITS:

DEC Investigator Remarks:

ongoing case managed by Jie Zhao

Problem is in a vacant lot ACROSS THE STREET from 140 Jackson Street.

Map Identification Number 87 **GREEN POINT CAR WASH, INC.** **Spill Number: 0705867** **Close Date: 09/13/2007**

(AKA AUTOCLEAN CARWASH, INC.) BROOKLYN, NY TT−Id: 520A−0050−869
103 ENGERT AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 1028 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 103 ENGERT AVE
Revised zip code: 11222

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: HELEN ESPINOSA − GREEN POINT CAR WASH, INC. (A
Spiller Phone: (917) 577−6080
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rvketani
Contact for more spill info: HELEN ESPINOSA
Contact Person Phone: (917) 577−6080

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/23/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

MATERIAL SEEMS TO BE LEAKING FROM CAR WASH;

DEC Investigator Remarks:

8/23/07 − Raphael Ketani. I called up Sean Donohue of the NYC DEP (718) 595−5000. I asked him about the circumstances regarding the spill. He said that Helen Espinosa (917) 577−6080 had called him saying that there was spilled diesel fuel in her backyard. She told him that it spilled onto the property of the neighboring car wash. However, he didn't have any information regarding how much had spilled.

I visited the site shortly after talking to Mr. Donohue. A person at the car wash (which fronts on McGinnis Boulevard and exits on Engert Avenue) showed me the spilled oil on the car wash property. I saw an elongated stain of about 2 feet wide by 6 feet long. I could smell oil. She showed me where the oil had come from. This was the backyard of 105 Engert Avenue where a used car dealership stored its cars. I could see several drums through the chain link fence.

The car dealership was CDM Auto Sales, Inc., 109 Engert Avenue, Brooklyn, NY, (718) 683−7277. I called up the owner of the dealership, Charles DeMarino. He said that the drums aren't on his property. He said they are soap and other material for the car wash. I told him they were in his backyard. He said that he rented the backyard, but not all the way back. He said that the yard with the cars that are all the way back and the drums are part of the property owned by the same person who owns the apartment building and the property the car wash in on.

I knocked on the door of the apartment on the first floor which has access to the backyard. The woman let me through her kitchen and to the backyard. I saw that the drums contained car wash liquids. There was a strong odor of diesel fuel and there was a half full white drum containing some kind of liquid. The ground area around the drums was wet and odoress. I took a number of pictures of the backyard, the staining and the drums.

I looked up the owner of the property for the apartment building and the car wash. This is block and lot 2701 and 53. According to NYC Property Tax, 105 and 107 Engert Avenue are owned by the same party, Green Point Real Estate Corp., 86 Monitor Street, Brooklyn, 11222−4751. The car wash is Autoclean Carwash, Inc., and is at 103 Engert Avenue, (718)782−5592. However, this address is only a street address/mailing address. It does not appear in the property databases. So it's probably really part of 105 Engert. I called up the phone number and Young Yu answered (aka Boung Young). He said that he is the owner of the Green Poin Car Wash at 103 Engert Avenue. I told him that 3 drums of material are sitting in the backyard and that they are the property of the car wash as they have the names of car wash liquids on them. He said they are not his and he disavowed any ownership of them strongly.

8/24/07 − Raphael Ketani. I sent a CSL to both Green Point Real Estate and the Green Point Car Wash.

8/27/07 − Raphael Ketani. Emory, a worker at the car wash, called to say that the staining on the car wash property has been cleaned up. She said that the drums are owned by a Polish gentleman who speaks very little english. She said she explained to this person that the drums have to be removed by a licensed hauler. He told her he will get them cleaned up. I told her I needed receipts that the oil has been cleaned up.

Walter, the owner of the drums, called me up to say that the remediation company is coming at 12 noon to pick up the drums and clean the area. I told him to send me a copy of the receipt for the work that is done. He said he will mail me a copy.

8/29/07 − Raphael Ketani. Walter called today to say that the drums were picked up yesterday and the area was cleaned up. He said that DEC should be getting the paperwork very soon.

9/17/07 − Raphael Ketani. On 9/13/07 I received a cover letter with manifest from Feliks & Son Storage Tank Co. for the cleanup of the oil spill. The cover letter stated that 7 gals. of oil had spilled and that four drums of spent absorbent were disposed of.

Based upon the cover letter and manifest from Feliks and the small size and very small areal extent of the spill, I am closing the spill case.

10/15/07 − Raphael Ketani. Today I received a letter from Helen Spinosa stating that the owner of the drums is the tenant in apartment 4R(C?), Walter Markowski. She also stated that he was the owner of the drums and he proceeded to have them removed.

Map Identification Number 88 **CONSTRUCTION SITE** **Spill Number: 0602810** **Close Date: 06/13/2006**
351 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0048−941

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1041 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: ARDIAN PISTOLI
Spiller Phone: (516) 505−2700
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rvketani
Contact for more spill info: ARDIAN PISTOLI
Contact Person Phone: (516) 505−2700

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/13/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND CONTAMINATED SOIL AT THIS LOCATION WHILE DIGGING:

DEC Investigator Remarks:

6/13/06 − Raphael Ketani. Spill called in by consultant, Yesh Saha of Hydro Tech (718) 636−0800. Owner is Corcom Construction, 327 Hempstead Avenue, West Hempstead, NY 11552. Two 275 gal. tanks were discovered on site. The tanks were removed. Five soil samples were taken in the area where the tanks were. Results came back with only a few hits for all 5 samples. Based upon the 15 FAXed pages of analytical results (the last 3 pages were just chain of custody), I am closing the case.

Map Identification Number 89 **MANHOLE #53380** **Spill Number: 9909065** **Close Date: 02/22/2002**
MEEKER AVE/WITHERS ST BROOKLYN, NY TT−Id: 520A−0050−234

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1085 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: UNKNOWN

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name: STEPHEN CRIBBIN
Notifier Phone: (212) 580−6763
Caller Name: STEPHEN CRIBBIN
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info: STEPHEN CRIBBIN
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/26/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

20 GALS OF WATER IN MANHOLE−SAMPLE TAKEN−CLEANUP PENDING RESULTS

CON ED #128653

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"

Map Identification Number 90 **RESIDENCE** **Spill Number: 0811473** **Close Date: 01/20/2009**
381 GRAHAM AVE APT 2 BROOKLYN, NY TT−Id: 520A−0223−941

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1190 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: 381 GRAHAM AVE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: vszhune
Contact for more spill info: SARAH SMALL
Contact Person Phone: (718) 609−5565

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/19/2009		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MERCURY	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

Complainant noticed 20 small pieces of Mercury in her toilet bowl. When flush it comes back. Needs advice

DEC Investigator Remarks:

01/19/08− Zhune called Sarah Small (718)609−556. She said I noticed mercury in the toilet that she does not know where it cone from. I told her what she have to do if spill less than two tablespoons which was her case. I also told her if spill is greater than one pond (Two tablespoons) you need to call (800) 424−8802 the National Response Center (NRC). it works 24 hours a day. 7 days a week.
Spill Closed.

Map Identification Number 91 **AMOCO STATION −MTBE** **Spill Number: 9414922** **Close Date: 02/11/2009**
243 MEEKER AVENUE BROOKLYN, NY TT−Id: 520A−0049−809

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1311 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION	Spiller:	SPARTAN PETROLEUM	Spiller Phone:	(516) 365−8700
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:	DAWN MEDAGLIA	Caller Agency:	TYREE ENVIRONMENTAL TECH.	Caller Phone:	(516) 249−3150
DEC Investigator:	JAKOLLEE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/13/1995		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

GEO PROBE SURVEY ON SITE, FOUND CONTAMINATION.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "K FOLEY"
3/14/03 REASSIGNED FROM TIBBE TO VOUGHT.

12/1/03 Transferred from Vought to Foley.

10/16/06 reassigned from Foley to Tang. (Sun)

11/06/08: This spill case transferred from K. Tang to J. Kolleeny. Recommended to Vadim Brevdo that this spill be added to MTBE Pilot Project, Vadim agreed. − J. Kolleeny

02/05/09: Contacted Jay Semelmacher (emergency contact on PBS form, #2−247405). He didn't have any information regarding the site and suggested sending a letter to Spartan Petroleum.

Spartan Petroleum Corp.
333 New Hyde Park Road
Suite 201
New Hyde Park, NY 11042 (JK/KG)

02/09/09: Letter sent to Spartan requiring:
"1. Tank closure assessment report,

2. Explanation of the cause of the release,
3. Subsurface investigation report, including a site location map and a site plan showing the former and current locations of underground storage tanks and soil and groundwater sampling locations. A North arrow and scale bar must be included on the site plan.

If no tank closure report was prepared or no subsurface investigation previously conducted, the Department requires that a work plan for a site assessment including a soil and groundwater investigation be prepared and submitted. The work plan should include a site location map and a site plan showing proposed soil and groundwater sampling locations, as well as current and former tank locations. A North arrow and scale bar must be included on the site plan." Report due 03/19/2009. (JK/KG)

02/12/09: Rec'd letter dated 02/10/2009 from Kevin Kleaka of Impact Environmental stating that this spill has already been closed. Included was the UST Closure Report prepared by Impact dated 10/6/2004 and the No Further Action Letter dated 10/7/2004. Upon review of the documents, the spill was closed by Kevin Hale (central office) in 2004. At that time, this spill was not closed in the NYSDEC database. The spill is now closed in the database and the UST closure report and NFA letter have been uploaded to eDocs. (JK/KG)

Map Identification Number 92 **UNDERGROUND** **Spill Number: 1201151** **Close Date: 05/07/2012**
243 MEEKER AVE BROOKLYN, NY 11211 TT−Id: 520A−0273−573

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1311 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: CHARLIE SOSIK − UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: KGHALE
Contact for more spill info: CHARLIE SOSIK
Contact Person Phone: (631) 504−6000 ext. 1

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Any Type of RP, Including No RP − DEC Field Response − Corrective Action Not Required or Not Possible

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/04/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

old gas station − large amount in soil − history spill − clean up pending − underground tanks − were removed a while ago old spill # 94−14922

DEC Investigator Remarks:

5/7/2012 − KGH Spoke to Charlie Sossik of EBC. Site is a vacant gas station (over a decade) and the site of closed spill #9414922. Residual soil contamination encountered outside the footprint of former excavation during Phase Two Investigation for prospective buyer. Photo of site from Google Earth entered into EDOCs. According to EBC groundwater beneath the site was clean providing further evidence that remedial efforts at the site were largely successful. For further information please refer to spill # 9414922. Spill Closed. KGH

Map Identification Number 93 **ABANDONED BUCKET** **Spill Number: 0800508** **Close Date: 08/01/2008**

9 RICHARDSON ST BROOKLYN, NY TT−Id: 520A−0215−900

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1321 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Citizen	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/12/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

Caller states someone left a bucket of oil in a parking lot. Unk sizre of the bucket. Bucket is leaking.

DEC Investigator Remarks:

04/14/08−Vought−Off hours responder. DEC Vought and DEC Ahmed to peform site visit.

Map Identification Number 94 **CONSTRUCTION/EXCAVATION SITE** **Spill Number: 0911340** **Close Date: 01/25/2010**
568 UNION AVENUE BROOKLYN, NY TT−Id: 520A−0248−294

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1378 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: hrpatel
Contact for more spill info: CHRIS YESMONT
Contact Person Phone: (646) 265−6108

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/18/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	AIR

Caller Remarks:

ANON. 311 CALL TO DEP, REPORTING HEAVY SMELL OF PETROLEUM PRODUCT IN THE AIR AT ABOVE LOCATION. REPORTED LATE DUE TO MISCOMMUNICATION W/IN DEP.

DEC Investigator Remarks:

01/22/10−Hiralkumar Patel. spoke with Chris (at 4:05 PM on 01/21/10) at NYC DEP. Chris mentioned that he went to site, but site was locked. he smelled odors in area.

7:30 AM:− visited site. met Afifa Mahmood, construction supervisor/property manager. Afifa mentioned that odors coming from a strom drain catch basin located at the intersection of Union Ave and Richardson Street. walked through contrucstion site. currently piles being installed for new 7 story residential building with no basement. as per Afifa, elevator pit will go down to 5 ft bg and there will be a vapor barrier installed. found water in couple of holes in site, but no sheen or petroleum odors from excavation holes. Afifa mentioned that they are dewatering excavation holes into a concrete well which is located on−site and once they install piles, they put water back into hole. no dewatering into city sewer system. Afifa asked to contact their

architect Robert Jakel about any environmental investigation work prior to construction.

inspected catch basin at the intersection of Union ave and Richardson street. found mixed odors in area.

current project includes three lots (Block: 2731; Lot #s: 1, 45 and 47) and owner baught these properties in 2008 and at that time all lots were empty lot (no buildings on−site).

Block/Lot − 2731/1:− addresses: 568−580 Union Ave, 2−16 Richardson St, 1−9 Frost St
Block/Lot − 2731/45:− address: 13−15 Frost Street
Block/Lot − 2731/47:− address: 11 Frost Street

568 Union Ave LLC. **property owner**
c/o Heatherwood Communities LLC. **managment company**
1737 Veterans Memorial Highway
Islandia, NY 11749
Attn.: Afifa Mahmood **property manager**
Ph. (718) 963−0635
Fax (718) 963−0435
email: afifa@heatherwoodapartments.com
568union@heatherwoodapartments.com

Robert Jakel **architect**
Ph. (212) 219−9733 Ext. 15

9:02 AM:− left message for Mr. Jakel.

found PBS record at 568 Union ave property. no spills history at 568 Union Ave. no PBS or spill records found at 11 Frost Street or 13−15 Frost street.

PBS #:− 2−610135. as per PBS record, 568 Union Ave site had one 4,000 gal #6 oil UST which was removed on 01/29/06.

9:57 AM:− spoke with Mr. Jakel. he mentioned that Phase I was done during property transaction and there were no recognized conditions that may require Phase II, so Phase II was never conducted.

10:00 AM:− spoke with Holly at Heatherwood. she has Phase I report and will send copy next week.

Holly O’Brien
Heatherwood Communities, LLC.
PH. (631) 234−1600 Ext. 243

from NYCDOB website found that all three lots has "E" restriction for Hazmat.

10:08 AM:− spoke with Afifa. she mentioned that Phase II was done by previous owner before property transaction. asked Afifa to send copy of Phase I and Phase II for review.

10:46 AM:− received email from Ms. O'Brien with copy of Phase II report. Phase II report was prepared by Don Carlo in April 2007.
abstract:

− did GPR survey and found no underground anomalies
− eleven soil borings (B−1 through B−11) were installed to depht of 12 ft bg where groundwater found
− soil was screened every four feet and found no PID readings
− collected two soil samples from each borings: one at 0−4 ft and second at 8−12 ft depth (groundwater interface)
− collected total of three groundwater samples from borings B−1, B−4 and B−8 where temporary well points installed to depth of 14 ft bg
− fill material encountered throughout site from 0−4 ft
− found heavy SVOCs and metals in soil samples and groundwater sample
− no VOC contamination found in any samples except Naphthalene (max: 1,000 ppb in B−6 at 8−12 ft depth)

Ms. O'Brien will send copy of Phase I, RAP and CHASP.

01/25/10−Hiralkumar Patel.
3:39 PM:− received Phase I and RAP from Afifa.

Based on submitted documents, case closed.

Map Identification Number 95 **MANHOLE 4379** **Spill Number: 9911825** **Close Date: 03/04/2002**
DRIGGS AVE&MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0039−764

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1394 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: DRIGGS AVE/MANHATTAN AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	MARK SCHLAGEL	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	COMENALE	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/11/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller reported undaiperable sheen on 600 gallons water. con ed #129558.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 96 ****DRILL** TM 755 **DRILL**** **Spill Number: 0002248** **Close Date: 03/20/2008**

DRILL DRIGGS AVE/MANHATTAN AV BROOKLYN, NY TT−Id: 520A−0038−670

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1394 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: DRIGGS AVE/MANHATTAN AV
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR ZAMBRIO
Notifier Phone: (212) 580−6763
Caller Name: MARK SCHLEGEL
Caller Agency: CON ED
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/23/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

found sheen on 200 gals water −− sample taken − clean up pending results −− con ed 131538 .

DEC Investigator Remarks:

03/20/08 − See eDocs for Con Ed report detailing cleanup and closure.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

Map Identification Number 97 **MANHOLE #TM 633** **Spill Number: 0106443** **Close Date: 06/13/2003**
NEWELL ST & DRIGGS AV BROOKLYN, NY TT−Id: 520A−0044−663

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1429 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NEWEL ST / DRIGGS AV
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNK	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:	MR DELLACROSE	Notifier Phone:	(212) 580−6763
Caller Name:	CHARLIE MCCARTHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	KMFOLEY	Contact for more spill info:	CHARLIE MCCARTHY	Contact Person Phone:	(212) 580−6765

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/19/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1 PT UNK OIL IN A MANHOLE − SAMPLE TAKEN − CLEAN UP PENDING RESULTS

NO WATER IN MANHOLE

CON ED #139502

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
Con Ed e2mis Notes:

9/19/01 Approx 1 pint unknown oil on dirt on floor of TM 633. Historical indicates 12ppm. Sample taken and returned <1ppm PCB.
Cleanup pending pressure test of transformer. (KMF 9/26/01)

UPDATE @ 1933 HRS 9/19 CIG MACCARTHY NOTIFIED. #12255 VDC.

LAB RESULT RECEIVED 9/20/01 − 0629. 01−09297. 1 PPM. TJ − 50495

CLEANUP PENDING PRESSURE TEST OF TRANSFORMER. TJ − 50495

UPDATE @ 1225 HRS 9/27 NETWORKS SPLICER GUADARRAMA REPORTS HE PRESSURE TESTED TRANSFORMER, FOUND 'A' PHASE NOT HOLDING

PRESSURE BUT REPORTS NO TRANSFORMER OIL VISIBLE IN STRUCTURE. OIL LEVEL IS 50. WILL REPORT RESULTS TO HIS OFFICE. #12255 VDC.

UPDATE 9−27−01 1800 HRS QUIJIJE MECH "A" FLUSH DEPT REPORT CLEANUP COMPLETED. HE DOUBLE WASH STRUCTURE WITH BIO−JEN

760 AND BULL DOG. HE REMOVED ALL LIQUIDS WITH VACTOR. HE FOUND NO SUMP. THERE WAS A DRAIN HE FOUND NO SIGNS OF

OIL IN THE DRAIN. HE CEMENTED DRAIN. E.S.TAG # 35830 WAS REMOVED. INCIDENT IS CLOSED.

UPDATE 10−02−01 2000 HRS.... REPORT RECEIVED FROM O.S. D. HEARNS, THE A PHASE WAS ONLY LEAKING AIR. THE INCIDENT IS OFFICIALLY

CLOSED.

Environmental Detailed Incident Report

UPDATE 1/30/03 .... RECORDS SHOW UNIT WAS REPLACED 10/26/01 EV

Map Identification Number 98 **CORNOR OF CONSELYEA** **Spill Number: 9704676** **Close Date: 07/18/1997**
MANHATTEN AVE BROOKLYN, NY TT−Id: 520A−0042−892

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1450 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: MANHATTAN AV / CONSELYEA ST
Revised zip code: 11211

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: UNK
Spiller Phone:
Notifier Type: Citizen
Notifier Name: NONE
Notifier Phone:
Caller Name: JENIFER ALLEN
Caller Agency: CITZEN
Caller Phone: (718) 387−2037
DEC Investigator: LUCE
Contact for more spill info:
Contact Person Phone:

Category: Investigation indicates there was no spill.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/14/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TAR	OTHER	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

TARING OPERATION 24HRS A DAY − FUMES ARE AFFECTING HEALTH OF CALL

WHO LIVES ACROSS STREET − WIND DIRECTION TODAY IS MAKING IT WORSE

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 99 **MANHOLE #4900** **Spill Number: 9910471** **Close Date: 03/27/2002**
NORTH 11TH ST/UNION AVE BROOKLYN, NY TT−Id: 520A−0039−743

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1477 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name: STEPHEN CRIBBINS
DEC Investigator: COMENALE

Spiller: UNKNOWN − UNKNOWN
Notifier Name: STEPHEN CRIBBINS
Caller Agency: CON EDISON
Contact for more spill info: STEPHEN CRIBBINS

Spiller Phone:
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−8576
Contact Person Phone: (212) 580−8576

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/02/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SPILL IS CONTAINED−CLEANUP PENDING SAMPLE RESULTS−CON ED #129165

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 100 **GAS STATION** **Spill Number: 0601565** **Close Date: 05/12/2006**
116 CONSELYEA STREET BROOKLYN, NY TT−Id: 520A−0049−792

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1506 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PASSENGER VEHICLE
Spiller: PETER MESSINA − GAS STATION
Spiller Phone: (718) 388−1620
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SMSANGES
Contact for more spill info: PETER MESSINA
Contact Person Phone: (718) 388−1620

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/11/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

VACANT GAS STATION AND IT MAY BE LEAKING UNDER GROUND

DEC Investigator Remarks:

This is not a real spill.
The caller was asking a question, IF there was an open spill at this site.
He says it WAS a gas station over 20−30 years ago and now they're planning a new building on the site.
Sangesland looked up the site and found no spills and no PBS history.
IF tanks or contamination is found during the excavation for the new building, a spill case will then be opened.

Map Identification Number 101 **BOGUMIL HOME** **Spill Number: 0612279** **Close Date: 02/08/2007**
101 ECKFORD STREET BROOKLYN, NY TT−Id: 520A−0049−609

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1555 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: JIM CAREY − METRO FUEL OIL CORP
Spiller Phone: (718) 383−1400
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SMSANGES
Contact for more spill info: BOGUMIL HOME
Contact Person Phone: (718) 389−0379

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/08/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	5.00	GALLONS	5.00	GALLONS	SOIL

Caller Remarks:

STORAGE TANK OVERFILL DUE TO WRONG DELIEVRY AND IS ALL CLEANED UP

DEC Investigator Remarks:

100 eckert street.
During a regular delivery to 100 eckert, the owner of 101 eckert asked the driver for a delivery to his house. That homeowner actually used "Consumers oil" and screwed up the various oil company names. Homeowner said he had a 550 gal tank (it was really a 275gal) At 240gal the tank overfilled.
3gal came out on cement driveway, 2 gal on solid sealed cement floor in basement. All cleaned within 1 hour.

Map Identification Number 102 **GAS STATION** **Spill Number: 0000373** **Close Date: 02/27/2003**
2 ROEBLING ST BROOKLYN, NY TT−Id: 520A−0039−808

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1566 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: CALLER − ANTHONY FURNACOLA
Spiller Phone: (516) 457−3365
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name: GERARD RUTIGLINO
Caller Agency: SHARP ENVIO
Caller Phone: (631) 451−7300
DEC Investigator: TOMASELLO
Contact for more spill info: CALLER
Contact Person Phone: (516) 457−3365

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/10/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT HE IS DOING EXCAVATION AND HAS DISCOVERED CONTAMINATED SOIL. CALLER REQ CALL BACK ON CELL PHONE. NUMBER

LISTED ABOVE

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

NAC CORP DID TANK REMOVAL DID NOT NOTIFY THE dec. gAS TANKS GERALD OF sHARP TRANSP AND DISPOSAL is the project coordinator. 631−451−7300. GOR ENDPOINTS THAT ARE CLEAN. OVERNIGHTED ME REPORTS. SIX 550S. i SAID DO 2 gw SAMPLes, one on each side of the tank field. WILL have it done tomarrow, with an AUGER. lONG ISLAND aNALYTICAl will take the samples. tomasello 5/9/2000.

sAMPLES TAKEN AND REVIEWED. cASE CLOSED 6/13/2000 SEE dec ARCHIVE FILE

Map Identification Number 103 **SCHOOL** **Spill Number: 0713068** **Close Date: 03/12/2008**
320 MANHATTAN AVE. BROOKLYN, NY TT−Id: 520A−0215−877

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1570 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller:
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: jbvought
Contact for more spill info: MUNANDRA − NYC BOARD OF E
Contact Person Phone: (314) 219−7840

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/11/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Cleanup in progress.

DEC Investigator Remarks:

Jeff Vought visited the site

03/12/08−Vought−Daytime runner and site visit by Vought. Onsite were Petroleum Tank Cleaners(718−624−4842) and also Mr. Munendre Sharma(Bd. of Ed 718−349−5752). Spill caused by overfill which caused #2 fuel to run across sidewalk, down curb and into catch basin. PTC onsite with vacuum truck washing sidewalk and will also recover fuel from catch basin. Small five gallon spill also inside tank room from top of tanks and PTC will also place down speedy dry and wash affected area. Tank room floor composed of poured concrete with good epoxy seal. No odor complaints from faculty or students to date as per Sharma. Spill closed by Vought due to no impact to soil and or groundwater and cleanup by PTC.

03/14/08−Vought−Received call form Sharma who confirmed that tank room was cleaned and powerwashed. Catch basin was also cleaned and spill remains closed by Vought.

Map Identification Number 104 **MANHOLE #4837** **Spill Number: 9812337** **Close Date: 06/16/2003**
ROEBLING AVE/NORTH 11TH NEW YORK, NY TT−Id: 520A−0049−153

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1596 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: N 11TH ST / ROEBLING ST
Revised zip code: 11211

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name: RICHARD ROACH
DEC Investigator: JHOCONNE

Spiller: RICHARD ROACH − CON EDISON
Notifier Name: MR DELECROSS
Caller Agency: CON EDISON
Contact for more spill info: RICHARD ROACH

Spiller Phone: (212) 580−6764
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−6764

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/05/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	250.00	POUNDS	0.00	POUNDS	SOIL

Caller Remarks:

ABOVE TAR−LIKE MATERIAL DISCOVERED AT ABOVE LOCATION. TESTING

TO BE DONE ON MATERIAL BEFORE CLEANUP IS DONE. NO CALL BACK

REQUESTED.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
DEC responder notes:

1/6/99 D. Perez (ERT)− found while making repair on secondary joints. Solid sample collected − requested oil ID.

e2mis no. 122−247:

IN MH4837 WHILE TRYING TO REPAIR SECONDARY JOINTS FOUND A SOLID TAR−LIKE SUBSTANCE IN MH COVERING WALLS & FLOOR. CONTAINED TO STRUCTURE, NO SEWERS OR WATERWAYS AFFECTED. SOLID SAMPLE TAKEN & STOP TAG #04324 PLACED.NOTE;;;; PRIOR TO PREFORMING ANY WORK IN

MH #9 TO BE NOTIFIED DUE TO DEFECTIVE SECONDARY JOINTS IN MH.

UPDATE 1309 HRS 1/6 D.PEREZ ERT CALLED REQUESTING THAT WE MAKE SURE SAMPLE IS ALSO TESTED FOR OIL ID. CALLED ASTORIA CHEM LAB SPOKE TO P.KEERAN HE WILL LOCATE SAMPLE & CALL BACK.

1429 hrs received call back from chem lab [marta] sample found & id will be done. sample is still drying at this time.

LAB RESULT RECEIVED 1/6/99 − 17:45. 99−00137. OIL I.D. INDICATES A SUBSTANCE SIMILAR TO DIELECTRIC FLUID.

LAB RESULT RECEIVED 1/7/99 − 1045. 99−00096. <1.0 PPM.

UPDATE: 2/2/99 − 0500

F. DELLATORRE − 48634 − ENV. OPS., REPORTS <1.0 PPM CLEANUP COMPLETE WITH AND TAG #04324 REMOVED. INCIDENT IS CLOSED.

UPDATE 4/18/03 REVIEW OF STRUCTURE. NO TAR LIKE SUBSTANCE, NO OIL, NO FOREIGN SUBSTANCE. NO DEFECTIVE JOINTS WERE FOUND.

Map Identification Number 105 **CONSTRUCTION SITE** **Spill Number: 0701326** **Close Date: 05/03/2007**

ROEBLING STR/NORTH 11TH BROOKLYN, NY TT−Id: 520A−0049−155

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1596 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: N 11TH ST / ROEBLING ST
Revised zip code: 11211

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: KIETH WILLIAMS − CONSTRUCTION SITE
Spiller Phone: (718) 595−4755
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: smsanges
Contact for more spill info: KIETH WILLIAMS
Contact Person Phone: (718) 595−4755

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/01/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

BLACK SUBSTANCE COMING OUT OF THE GROUND AT ABOVE ADDRESS: WOULD LIKE DEC TO RESPOND AS SOON AS YOU CAN...

DEC Investigator Remarks:

This is a duplicate spill report to a longterm spill/cleanup going on at this construction site.

Map Identification Number 106 **CONSTRUCTION SITE** **Spill Number: 0608859** **Close Date: 11/07/2006**

NORTH 11TH ST & ROEBLING BROOKLYN, NY TT−Id: 520A−0049−154

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1596 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: N 11TH ST / ROEBLING ST
Revised zip code: 11211

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: COUNCILMAN YASSKY − CONSTRUCTION SITE
Spiller Phone: (718) 875−5200 ext. M
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: COUNCILMAN YASSKY
Contact Person Phone: (718) 875−5200 ext. M

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/01/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DURING EXCAVATION AT THIS LOCATION PETROLEUM CONATMINATION WAS DISCOVERED

DEC Investigator Remarks:

11/07/06 Rahman− Cross referenced to spill #0605974

Map Identification Number 107 **MANHOLE 4925** **Spill Number: 9910080** **Close Date: 03/29/2002**
WITHERS ST/UNION AV BROOKLYN, NY TT−Id: 520A−0039−736

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1615 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CALLER − CON EDISON
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: HERBST
Notifier Phone: (212) 580−6764
Caller Name: MARK SCHLAGEL
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/19/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 PINT UNK OIL ON 50GAL OF WATER − CONTAINED − CASE #129045

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"

Map Identification Number 108 **MANHOLE 53375** **Spill Number: 9909108** **Close Date: 12/08/1999**
WITHERS ST/ UNION AVE BROOKLYN, NY TT−Id: 520A−0039−723

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1615 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR POVERELLI	Notifier Phone:	
Caller Name:	BILL MURPHY	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	BILL MURPHY	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/27/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 GALS OF OIL ON 150 GALS OF WATER. CONTAINED. CLEAN UP PENDING TEST RESULTS. CON ED 128−668

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed E2MIS notes:

FDR 6B54 found approx. 2 gallons unknown oil on approx. 150 gallons of water in MH 53375. No other oil filled equipment, took a liquid sample.

Lab seq# 99−11330<1.0PPM. Car over hole, follow up in the AM, reports <1.0PPM cleanup completed using bio−gen 760 and tag#11762 removed, incident is closed.

Map Identification Number 109 **GAS STATION** **Spill Number: 9608904** **Close Date: 10/18/1996**
25 SKILLMAN AVE BROOKLYN, NY TT−Id: 520A−0051−730

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1652 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: UNKNOWN − GAS STATION
Spiller Phone:
Notifier Type: Other
Notifier Name: JERRY ESPOSITO
Notifier Phone: (718) 389−0009
Caller Name: JERRY ESPOSITO
Caller Agency: CITIZEN COMMUNITY BOARD 1
Caller Phone: (718) 389−0009
DEC Investigator: JMKRIMGO
Contact for more spill info: UNKNOWN
Contact Person Phone: (000) 000−0000

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/17/1996		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

citizens are complaining of gasoline fumes−feel that the

under ground tanks at gas station are leaking

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"

Map Identification Number 110 **25 SKILLMAN AVE** **Spill Number: 9111612** **Close Date: 02/12/2003**
25 SKILLMAN AVE BROOKLYN, NY TT−Id: 520A−0051−729

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1652 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 25 SKILLMAN AVE.
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: COASTAL OIL OF NY
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name: LT. ROSEA
Caller Agency: NYC FD
Caller Phone: (718) 965−8229
DEC Investigator: SULLIVAN
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/10/1992		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	POUNDS	0	POUNDS	SEWER

Caller Remarks:

NUMEROUS COMPLAINTS OF AREA RESIDENT OF GASOLINE ODOR IN THEIR BUILDING.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 111 **BETWEN NORTH 10 /11TH** **Spill Number: 0612377** **Close Date: 02/15/2007**
ROEBLING WILLIAMSBURG, NY TT−Id: 520A−0048−060

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1685 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: ROEBLING ST
Revised zip code: 11211

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: JOE − BETWEN NORTH 10 /11TH
Spiller Phone: (646) 522−3622
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rmpiper
Contact for more spill info: JOE
Contact Person Phone: (646) 522−3622

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/12/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

OIL COMING UP FROM A BUILDIONG AT CONSTRUCTION SITE

DEC Investigator Remarks:

spill is a duplicate. See 0609092 and 0605974. This spill closed.

Map Identification Number 112 **30 SKILLMAN AVE** **Spill Number: 9200714** **Close Date: 04/21/1992**

30 SKILLMAN AVE BROOKLYN, NY TT−Id: 520A−0049−162

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1692 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Citizen
Caller Name: AL TUDESCO
DEC Investigator: TOMASELLO

Spiller:
Notifier Name:
Caller Agency:
Contact for more spill info:

Spiller Phone:
Notifier Phone:
Caller Phone: (718) 389−7968
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/18/1992	04/21/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	AIR

Caller Remarks:

FUMES/ODOR

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 113 **MANUFACTURING FACILITY** **Spill Number: 0514290** **Close Date: 08/04/2006**
78 KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0046−484

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1724 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: RACHEAL ATMAN − MANUFACTORING FACILITY
Spiller Phone: (631) 462−5866
Notifier Type: Other
Notifier Name: RACHEAL ATMAN
Notifier Phone: (631) 462−5866
Caller Name: RACHEAL ATMAN
Caller Agency: HYDRO TECH ENVIR
Caller Phone: (631) 462−5866
DEC Investigator: rvketani
Contact for more spill info: RACHEAL ATMAN
Contact Person Phone: (631) 462−5866

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/14/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND CONTAMINATION IN SOIL WHILE REMOVING

DEC Investigator Remarks:

4/26/06 Sangesland called HydroTech to ask for status update.
Kathy DeVoe said that during tank pull (2 tanks) contaminated soil was found.
Area was backfilled and Hydro Tech prepared a "Remediation Proposal" and submitted it to DEC for review.

05/17/06−Vought−Spill transferred from DEC Vought to DEC Ketani as per DEC Austin.

5/30/06 − Raphael Ketani. PBS case #2−110728. 3 tanks − 1 tank 2,000 gal. #2 oil; 2 tanks each 1,080 gal. gasoline. All closed and removed.

6/2/06 − Raphael Ketani. I talked to Kathleen De Voe from Hydro Tech regarding the March 26, 2006 Tank Closure Report. I told her that there was a lot of confusion as regards the number and type of oil tanks on site and to submit a revised PBS application. I also told her that a letter was needed from an engineer that knows the project stating that the digging could not proceed any further due to issues of structural integrity for the building and the loading dock. I sent her a letter regarding these 2 issues. Otherwise, the report was acceptable.

6/8/06 − Raphael Ketani. I spoke to Kathy of Hydro Tech. She said she spoke to the owner of the building and he has no recollection of the two 1,080 gal. tanks. Kathy said they will do a GPR investigation and send me the results. They will also amend/revise the PBS application and send it to me.

6/13/06 − Raphael Ketani. I received the following e−mail today:

Raphael −

I'm sending you this email as Kathy Devoe is on vacation. The client on the above spill is confused as to what information the NYSDEC has that appears to conflict with the tank information for the property. Could you please send over the whatever records you may have so that we can review this and try to get to the bottom of this. If you send it over, then we can try to clear the conflicts for you. Let me know.

Thanks, Mark

I sent Mr. Robbins an e−mail explaining what DEC has in its records regarding the number and capacities of the various tanks.

7/19/06 − Raphael Ketani. Kathy of Hydro Tech called. She said they did the GPR survey and didn't find any additional tanks. She said she is sending a revised PBS application to reflect that the 2000 gal. tank and a 550 gal. tank were the only tanks present and that they were removed. She said she also has a letter from an engineer stating that no further digging could take place due to structural concerns. She will send me all of these documents.

7/20/06 − Raphael Ketani. I received the July 18, 2006 GPR Survey for the site and a letter from the Hydro Tech engineer stating that further digging could not be performed as it would affect the structural integrity of the building. I reviewed the report and had no comments.

7/27/06 − Raphael Ketani. Kathy of Hydro Tech called to say that the corrected PBS form was sent to the owners of the property for their signature. She also said that the responses in the GPR results were only very small responses (i.e. the line on one page) and that any tanks would be represented as many more lines or wider lines.

8/4/06 − Raphael Ketani. I received the revised PBS Application from Kathy of Hydro Tech. It looked properly filled. I forwarded it to Nick Lombardo in the PBS Unit. Based upon receipt of the revised PBS Application, the GPR report, the Tank Closure Report

and the engineer's structural integrity letter, I am closing the spill case. Also, in the last paragraph of the cover letter to the Tank Closure Report, they have requested an NFA letter. I will send one.

Map Identification Number 114 **SERVICE BOX #12699** **Spill Number: 9912570** **Close Date: 02/26/2002**
107 KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0044−671

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1730 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name: BRIAN JOYCE
DEC Investigator: COMENALE

Spiller: UNKNOWN
Notifier Name: MR BOVARELLI
Caller Agency: CON ED
Contact for more spill info: BRIAN JOYCE

Spiller Phone:
Notifier Phone:
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/03/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

FOUND ON 45 GALLONS OF WATER − CLEAN UP PENDING LAB RESULTS

CON ED #129842

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 115 **MANHOLE 4930** **Spill Number: 9910564** **Close Date: 03/27/2002**
UNION AVE/JACKSON ST BROOKLYN, NY TT−Id: 520A−0039−745

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1737 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name: MR POVERELLI
Notifier Phone:
Caller Name: STEVE ROMERO
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: COMENALE
Contact for more spill info: STEVE ROMERO
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/05/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1 qt oil on 70 gals of water. clean up pending. con ed 129−194

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 116 **MCGINNESS AVE BETWEEN** **Spill Number: 9706969** **Close Date: 09/15/1997**
NASSAU AVE DRIBBS AVE BROOKLYN, NY TT−Id: 520A−0050−235

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1739 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: MC GUINNESS BLVD BTWN NASSAU/DRIGGS
Revised zip code: 11222

Source of Spill:	UNKNOWN	Spiller:	NYNEX	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	RON SASON	Notifier Phone:	(718) 204−1267
Caller Name:	CLARINDA	Caller Agency:	MILRO ASSOC	Caller Phone:	(516) 379−1500
DEC Investigator:	MCTIBBE	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/11/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	10.00	GALLONS	10.00	GALLONS	SOIL

Caller Remarks:

CALLER DID NOT HAVE ANY INFORMATION ON SPILL OR CAUSED − MILRO

HIRED TO CLEAN UP SPILL FOR NYNEX

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
CLEANED BY NYNEX.

Map Identification Number 117 **APPEARS THAT 20 GAL COOKING OIL** **Spill Number: 0706573** **Close Date: 11/08/2007**

LEONARD ST & METROPOLITAN AVE BROOKLYN, NY TT−Id: 520A−0037−468
WAS DUMPED INTO XFMR VAULT.

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1747 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: LEONARD ST / METROPOLITAN AVE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: CON EDISON
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: gdbreen
Contact for more spill info: ERTSDESK
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/12/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	20.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

unknown oil down a vault; con ed referrence # 208003

DEC Investigator Remarks:

11/08/07 − See eDocs for Con Ed report detailing cleanup and closure.

208003. see eDocs

Map Identification Number 118 **WAREHOUSE** **Spill Number: 0602498** **Close Date: 01/10/2007**
261 NORTH 9TH STREET BROOKLYN, NY TT−Id: 520A−0049−808

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1767 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: DENNY SING − WAREHOUSE
Spiller Phone: (718) 857−3100
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: DENNY SING
Contact Person Phone: (718) 857−3100

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/05/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND CONTAMINATED SOIL AT LOCATION

DEC Investigator Remarks:

Placed call into Denny Sing of Don Carlo Env. requesting callback and info. Need to send CSL.
Owner as per Property Shark
Vazquez, Alvaro
86 Havemeyer St
Brooklyn NY 11211−3348
07/17/06 Rahman− As per Lisa from Don Carlo(718.857.3100), the property owner is
263 N Group LLC
C/O Mr. Sam Pearl
80 Clay Street, Brooklyn, NY 11222. Ms. Lisa will get back to DEC with accurate info.
01/10/07 Rahman− Phase II report prepared by Don Carlo Env. Services Inc.Petroleum related VOC/SVOCs were not found in Phase II soil/ground water samples.Presence of only certain SVOCs(Benzo group)indicate that those are related with historic fill material.Heavy metals were found in ground water samples.In DCES's opinion, those matals came from the historic use of the site as a metal smelting and storage facility.The proposed development for the subject property is a five story residential building.Contaminated soil will be removed during the excavation for new foundation.A water proofing barrier will be incorporated in the foundation slub.The site is a NYC DEP "E" designated site.Spill closed due to absence of petroleum constituents in soil/ground water.Presence of heavy metals will be addressed as part of NYC DEP's requirement.

Map Identification Number 119 **MH 4927** **Spill Number: 0202473** **Close Date: 08/26/2002**
HAVERMYER ST/N 9TH ST BROOKLYN, NY TT−Id: 520A−0044−450

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1785 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: HAVEMEYER ST / N 9TH ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: LOU ZAMBRIO
Notifier Phone:
Caller Name: RICHARD ROACH
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: KMFOLEY
Contact for more spill info: RICHARD ROACH
Contact Person Phone: (212) 580−6764

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/07/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 quarts unk oil ref # 143204. this was a 24 hr dinmininus spill originally.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
Con Ed e2mis #142204:

06−JUN−2002 1020HRS. YOUNGBLOOD #15199 U/G REPORTS FOUND 2 QUARTS OF UNKNOWN OIL ON 10 GALLONS WATER IN M−4927. NO FIRE OR SMOKE. NO INJURIES. NO PRIVATE PROPERTY AFFECTED. IT APPEARS TO BE CONTAINED TO STRUCTURE. NO SEWERS OR WATERWAYS APPEAR TO BE AFFECTED. TOOK SAMPLE ON A E PRIORITY . HUNG ENVIROMENTAL STOP TAG # 32084. NO VISUAL WATER MOVEMENT. WATER IS STANDING STILL. NO CRACKS IN THE STRUCTURE WALLS. THIS WILL BE ON THE COMPANY 24 HOUR DIMIMIS PROGRAM. CHAIN OF CUSTODY # ISBB07157. CIG MORRIS NOTIFIED @ 1100HRS.

UPDATE @ 2152 HRS 6/6 LAB RESULTS RECEIVED SEQ#02−05256−001 @ <1PPM PCB.

UPDATE 6−7−02 0800 HRS K. QUEST MECH "A" FLUSH DEPT REPORTS HE LOADED TWO FLUSH TRUCK (NO COMPANY TANKER AVAILABLE) STRUCTURE IS MAKING WATER , WILL BE UNABLE TO COMPLETE THIS STRUCTURE ON TIME. TAKING THIS OFF THE 24HRS DEMINIMIS PROGRAM. NOTIFIED CIG ROACH

AT 0806 HRS

6/7/02= 1840HRS ADEDAPO ENVIR OPPS REPORTS CLEANUP COMPLETED. DOUBLED WASHED STRUCTURE USEING BIO−GEN 760. FOUND NO SUMP. REMOVED ENVIR TAG# 32084.

Update 6−11−02− 13:30 hrs. Cleanup completed by double washing structure with bulldog. Liquids were removed by tanker and solids were removed by vactor. No leaking company equipment.

Map Identification Number 120 **387 HUMBOLDT ST/BKLYN** **Spill Number: 9000154** **Close Date: 04/05/1990**
387 HUMBOLDT STREET NEW YORK CITY, NY TT−Id: 520A−0040−984

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1785 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Federal Government
Notifier Name:
Notifier Phone:
Caller Name: JOHN HIGGINS
Caller Agency: EPA
Caller Phone: (201) 906−6194
DEC Investigator: SIGONA
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/05/1990	04/05/1990	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	AIR

Caller Remarks:

NYCDEP WAS NOTIFIED, NO ACTION TAKEN, DEC (SIGONA)REPORTED TO NYCDEP HAZ MAT WHO WILL INVESTIGATE.

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

10/10/95: This is additional information about material spilled from the translation of the old spill file: STRONG ODOR.

Map Identification Number 121 **RESIDENCE** **Spill Number: 0101039** **Close Date: 04/26/2004**
41 NEWELL ST BROOKLYN, NY TT−Id: 520A−0044−684

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1788 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 41 NEWEL ST
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: ANTHONY LOSQUADRO − VIJAX FUEL CORP
Spiller Phone: (718) 497−4491
Notifier Type: Other
Notifier Name: ANTHONY LOSQUADRO
Notifier Phone: (718) 497−4491
Caller Name: GLEN GOREL
Caller Agency: RESPONSE ENVIORMENTAL
Caller Phone: (508) 795−0110 ext. 2
DEC Investigator: JMKRIMGO
Contact for more spill info: UNK
Contact Person Phone: (000) 000−0000

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/26/2001		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

OIL COMPANY DELIVERED FUEL TO THE WRONG RESIDENCE−SPILL CREW IS ENROUTE FOR CLEANUP.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
01/26/04

Transferred from Rommel to Austin

02/17/04: Reassigned from AUSTIN to KRIMGOLD.

4/26/04. J.Krimgold reviewed a letter report submitted by Response Envir. Inc. dated June 1, 2001. According to the information presented in the report the oil release at this site has been successfully cleaned up. Post excavation sampling show that contaminants level in soil marginally exceeds TAGM levels for a few compounds. NFA. YK.

Map Identification Number 122 **CONSTRUCTION SITE** **Spill Number: 0613238** **Close Date: 03/09/2007**
ROEBLING STREET BROOKLYN, NY TT−Id: 520A−0270−863

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1810 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: LAURIE FOUGERE − UKNOWN
Spiller Phone: (917) 682−2373 ext. 0
Notifier Type: Police Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: sfrahman
Contact for more spill info: LAURIE FOUGERE
Contact Person Phone: (917) 682−2373 ext. 0

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/09/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALL WAS REPORTED TO NYC DEP. SPILLER INFO, CAUSE AND SOURCE ARE UNKNOW AT THIS TIME:

DEC Investigator Remarks:

Cross reference to Spill#0605974

Map Identification Number 123 **EXCAVATION** **Spill Number: 0612680** **Close Date: 02/22/2007**
214 NORTH 11TH STREET BROOKLYN, NY TT−Id: 520A−0048−949
CORNER DRIGGS ST

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1810 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: BOB − EXCAVATION
Spiller Phone: (909) 226−0990
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: sfrahman
Contact for more spill info: BOB
Contact Person Phone: (909) 226−0990

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/22/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT A DEC REP NEEDS TO GO TO ABOVE ADDRESS AND CHECK SITE OUT, THEY ARE EXCAVAVTING AND ALL KINDS OF BLACK STINKY SOIL IS COMING UP

DEC Investigator Remarks:

This is a duplicate spill to an existing ongoing spill case.
Ref spill #0605974 − DEC Manager is Sharif Rahman

Map Identification Number 124 **EXCAVATION SITE** **Spill Number: 0605974** **Close Date: 06/06/2008**
204−214 NORTH 11TH ST BROOKLYN, NY 11211 TT−Id: 520A−0048−948
MCCAREN MEWS

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1810 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO REVISION MADE

Source of Spill: UNKNOWN
Spiller: CHARLIE SOSIK − EXCAVATION SITE
Spiller Phone: (631) 589−6353
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: CHARLIE SOSIK
Contact Person Phone: (631) 589−6353

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/23/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

CLEAN UP IN PROCESS AND WAS FOUND DURING EXCAVATING.

DEC Investigator Remarks:

**** Removed tank needs to be registered****
Sangesland spoke to Charlie Sosik of PW Grosser Consulting.
Site is an open excavation site right now with plans to build a residential tower. Because of it's industrial history and the contamination found during a Phase 2 investigation, the NYC Buildings Dept has given the site an "E" designation (meaning there are environmental issues to be resolved before the building can be finished)
Right now they're excavating the soil and sending it to an approved facility. During this process they found oil soaked soil (that's why they called in the spill report).
Because of the high water table (8ft depth?) when the basement floor will be at 12 ft depth, the contractor will need to install a "Frac Tank" to pump the contaminated water/oil mix until it can be removed from the site.
The longer term plan to remove the water from the site, is to set up an oil/water separator, contain the oil and discharge the water into the city sewer system (with city approval).
PW Grosser has done this type of work before and will keep the DEC up to date with the progress on cleaning up the site.
11/02/06 Rahman− Spoke with Chris Almskoz of PW Grosser Consulting. He told me that the excavation begun around July of this year and contaminated soil is being sent to disposal facility in NJ.There is a dewatering system active at that site with permit city DEP.He also indicated that they are continuously monitoring air quality(dust & odor)at that site.I told him to take immediate measure to minimize petroleum odor(cover the stockpiled soil, use deodorant powder)that travelling down wind.DEC will receive Phase II and RAP shortly.
11/03/06 Rahman− Spoke with Chris Almskog again this morning. DEC rec'd air quality monitoring data over past few days from different locations of the site.The PID meter(mini RAE 2000) detected highest voc concentration as 1.8 ppm(As per DER 10,at 5.00 ppm voc level work activities must be temporarily halted, at 25.00 ppm level work activities must be shutdown).Nonetheless, covering of the stockpiled soil with polythin sheeting, use of deodorant foam and direct loading to the truck have been strongly recommmended at this time.

11/16/06 Rahman− Inspected the site again on 11/15/06 at around 4.00 pm after getting the odor complaint from Mr.Avigail Milde, a neighbor next door.I could not verify the complaint as there was no odor at that time and PID meter detected no reading(0.0

ppm)at street level and inside the lot.Oil−water mix is being pumped out to a settling tank for disposal as they accumulate at the bottom of the excavation.Sharif noticed covering of stock piled soil with green polytheen sheet to suppress the odor if it tends to spread.
The subject property is the planned site for the construction of a residential building. The proposed development will include the construction of a six−story, 19,800 square foot (foot print) building with a basement,and a separate three story 10,000 square foot (foot print)
parking garage.Excavation to an approximate depth of ten to twelve feet will be required for the construction of the foundation beneath the building and to a depth of 5 feet below the parking garage. The remainder of the property approximately 8,000 square feet will be capped with concrete and will serve as an open courtyard.
During the excavation, a previously abandoned 3,000 gallon heating oil UST was uncovered. It was located about 110' west of Roebling and 25' south of North 11th Street. In early August, Koon Tang visited the site with Charlie Sosik (formerly of PWGC) to discuss the UST and how to proceed. As per PW Grosser's claim,it was agreed upon to continue the excavation process to the proposed construction dimensions and Koon Tang or other DEC rep would visually re−inspect the site after soils were removed and properly disposed of.
Regarding the odor issue− the developer has vacuumed out floating product (11/15/06) from the onsite exposed water, used absorbent pads to collect product as it is observed, has been covering soil stockpiles with plastic sheeting after excavation activities, and he has
been soliciting contractors to apply an odor suppressing solution and/or foam encapsulant as excavation activities continue.
They plan on continuing to vacuum out floating product and use absorbent pads and/or booms when and if it continues to build up and to apply suppressant as needed.
They are in the process of obtaining a dewatering permit. Once they obtain the permit, the developer will continue to excavate directly into trucks for proper soil disposal. Once the proper excavation limits are achieved the developer is planning on installing a suitable sub−base for the foundation and slab and then setting concrete forms and pouring the foundation. It is anticipated that dewatering of the site will continue until after the foundation and slab are in place and waterproofed.
DEC requires clean end point samples and periodic sample of dewatering water before installing the foundation.
12/12/06 Rahman− I inspected the 204 N 11 Street excavation site 12/11/06 morning and met one of the owners Mr. Issac Schwarz .Currently, the excavation and removal of contaminated soil is proceeding towards the western side of the lot.On the eastern side, the installation of the pile caps is occurring, as the confirmatory end point samples results shows the organics were within acceptable range.There was no odor at the side walk level surrounding the lot, but I found a slight odor inside the lot near the stockpiled soil (PID reading; 0.5 ppm to 1.5 ppm). I suggested to the owner of the property that he cover the stockpiled soil until it is removed from the site for disposal(that action was taken immediately by the owner). Additional rounds of sampling will be performed in the middle and western side, once the excavation is completed down to proposed construction depth. Soil beneath the proposed building slab is to be covered with a vapor barrier line, followed by the concrete slab. As per phase II investigation, ground water was not impacted by the release from the buried tank.PW Grosser Consulting is overseeing the environmental issues.DEC has been notified that Bio solve solution is being used to suppress odor at the site,in addition to covering the stockpiled soil with polythin sheet.
Three Ground Water samples have been suggested to send to lab again to reconfirm the ground water quality at the end of the removal of perched oil water mix from the site.
01/26/07 Rahman− One out of four GW samples came up with some hits of voc/svocs.
02/20/07 Rahman− Offsite source investigation comprised of five monitoring wells have been submitted to DEC.I recommended for additional one on north sidewalk of N 11th street across the current seepage.
02/27/06 Rahman− I inspected the site this afternoon after being advised by the Regional Spill Engineer.No activity(excavation, installation of pile cap) was observed at the site today.There was no odor on sidewalk level(four sides of the lot),PID meter reading was).0 − 0.5 ppm).Two crews were at the site to pump the little amount of oily water as it accumulates.Apparently, the

seepage has been sibsided.
Dept. rec'd the recent end point sampling result along with proposed monitoring wells installation plan.
03/05/07 Sharif inspected the site today,excavation of soil proceeding at the southwestern side, no odors observed.
03/14/07 Rahman− I stopped by the site today.Excavation extended to the southeast side currently.There is a slight odor spreading of the exposed soil today, that soil will be covered with polythene at the end of excavation today.211 n 11th Street is a wire house across the 204 N 11th site.There are doing a Phase II as part of property transaction.Copy of Phase II can be found on request from Roy Leonard @(646)262−2840.
03/27/07− Inspected the site today at noon.MW installation will take place on coming thursday/friday.The seepage along the N 11th Street has decreased, interms of quantity and pumping operation is in effect as needed.There was no odor outside of the lot, slight odor was observed in the lot.Stockpiled soil is kept covered until loaded to the truck for disposal.
03/29/07 Wells installation taking place today.I was there this morning when the well drilling was being performed.I came to know that a UST was removed recently from 211 N 11th street garage, which is directly across the seepage spot.I spoke with that property owner Mr.Roy Leonard and he confirmed that a 1080 gallon UST was removed and no spill/contamination was found.I requested him to send us the tank closure affidavide/company name who removed the tank.
One well is being installed IFO 211 N 11th street.
04/10/07 Activities are suspended because of the holidays, will resume on 04/11/07.No odor was observed on 04/06/07 visit to the site.Sampling of the six wells will take place today on 04/10/07.(SR)
04/16/07 Flood water stranded in the lot, is being pumped out to the storm drain, no sheen/evidence of oil ovserved during my visit this morning.(SR).
05/10/07 Sharif spoke with P.W Grosser(Kris Almskog).The monitoring wells sampling data is being reviewed by PW Grosser.As per Kris, well on south side of N11th street indicated some product only.Wells on roebling side indicated presence of BTEX, no free product.PW Grosser plans to collect the free product from wells and perform another round of sampling.
06/06/07 AB Environmental pumped out oil from one well on side walk this morning.All other wells were checked for product, but there was no floating product.I was present that time.Approx. 2 gallon was collected from one well.(SR)
06/28/07 MW#1 was checked on 06/27/07 morning around 09:15 AM and approx. one gallon product was collected for disposal.(SR)
07/25/07 Spill#0750535 has been created to investigate the source of the petroleum seepage by state funded contractor,PIN case#04394.(SR)

10/02/07 Reviewing Phase II report done in March 2006.Contamination was observed in shallow and deep soil throughout the site and also in ground water.DEC was not notified that time about the contamination discovery, why? Again, in Phase II report, soil analytical for VOC/SVOCs were not provided.
I spoke with Mr. Issac Swartz and told him to provide DEC the Soil analytical result with pictures of the site at different stages of the excavation work.
I emailed and left a messege for Kris Almskog of PW Grosser few days ago regarding the pictures of the site and Soil analytical from Phase II.(SR)
10/04/07 According to Phase I report by CA Rich Environmental Services, the building at 203 N 11th St had been used as a record storage warehouse for at least twenty years.Phase I identified former use of oil to heat the building based on a 1950 oil burner application to Department of Building.No evidence of vent pipes, fill ports or concrete patches was observed during Phase I investigation.During excavation activities for building development,2,000 gallon UST was found and on August 1st 2006 tank was removed by Tradw Winds Environmental.Apparently, the UST had been in the soil for about fifty years.No details information was provided about the Tank conditions like, corrosion,leak,holes or contamination around the tank.Affidavit from Trade Winds says remaining oil was removed from the tank and tank was removed with piping for disposal.Waste disposal manifest shows approx. 100 gallon sludge was removed from tank bottom.Waste disposal manifest also shows approx. 6,000 gallon petroleum contaminated water was disposed during tank removal month.Apparently, the petroleum contaminated water was removed from the tank area.DEC requires

the following information:
1)Soil analytical from Phase II
2)Details information about the UST condition(corrosion, leak,contamination around the tank)
3)Pictures of the site during soil excavation works.PW Grosser(Kris Almskog)told me that they have more than 100 photographs of the site during excavation.
4)Disposal manifest for liquid in the settling tank.A settling was engaged on N 11th Street to collect oil water mix since October 2006 for about 7/8 months.
5)PBS registration of UST.(SR)
10/17/07 Developer of 204 N 11th site Mr. Schartz(718.218.8330) called me this morning and asked me if the investigation is completed and he could get the spill closed on his property.I told him that DEC's contractor expeditiously working to complete the investigation and at this point DEC requires additional information from his consultant PW Grosser regarding the UST on site, soil analytical from Phase II,details info on corrosion/holes of the UST with pictures,pictures of the excavation site during the excavtion and removal of contaminated soil and water, etc.He told me that PW grosser will contact me today with the required info.(SR)
10/25/07 Conference call in DEC attorney John Urda's office with John Urda, Sharif Rahman, Jeff Vought and Dev Yudelson on the phone.DEC requires photos of the site at different stages of excavation and removal of contaminated soil/water, disposal manifest for the oil removed from the settling tank.Dev Yudelson indicated that he would advise his client accordingly.(SR)
10/26/07 Artie Baldwin from Trade Winds called me this morning in response to John Urda's call yesterday regarding the Tank at 204 N 11th site.He told me that they have a file on that tank which includes some pictures,too.He would send DEC whatever documents they have regarding the tank.

03/07/08 Department's letter requiring aggresive contamination removal from underneath the sidewalk went out to P.W.Grosser Consulting on 02/12/08.The letter asked to perform removal of contaminated soil and free product from underneath the side walk by excavating, as technically practical and feasible.Letter was approved by RSE and DLA.We had a meeting with DEC Vought, RSE Mr. Austin, John Urda and DEC sharif Rahman in RSE's office and discussed P.W Grosser's response regarding their proposal to VEFR the wells only, instead of excavation and removal of gross contamination underneath the sidewalk.RSE Mr. Austin opinioned that due to poor transmitivity of the oil, quantity of accumulation to the wells is also nonsignificant. Therefore, without excavtion,VEFR will not work well to recover free product from underneath the sidewalk. RSE recommended to contact Key Span Energy to study feasibility of excavation near their gas main to remove contamination.A meeting with property owner's consultant, counsel was scheduled on 03/13/08 at DEC office to discuss about remedial strategy.(sr)

03/17/08 A meeting was held on 03/13/08 at DEC region 2 office with P.W. Grosser(Kris Almskog),Proper owner Issac Swartz and Mr. Firetog.On DEC side− John Urda, Randall Austin,Jeff Vought and Sharif Rahman.DEC explained that due to the fact that ground water flow direction is from the site to the north and an UST that had oil in it with strong evidence of oil release to the ground, the site 204 N 11th Street is the most potential source of this oil contamination and there was no other source found.It was decided that PW Grosser will prepare revised work plan to excavate and remove contamination from the sidewalk after consulting and keeping KeySpan in the loop.KeySpan has to be notified and clearance is needed from them in order to excavate near gas line.KeySpan Energy's contact info was given to P.W. Grosser.As per RP's request to close out this spill, DEC decided to close Spill 0750535 after the cost of investigation is paid by Mccarren Park Mews.Issac Swartz agreed to pay the bill for investigation done by Envirotract.Total cost of the investigation was provided to John Urda for dispatching to McCarren Mews.It was also discussed to analyze ground water quality once excavation and removal of gross contamination is completed.

(sr)
05/27/08 I called Dave Lorhtior(EnviroTrack) and requested him again to send DEC a confirmation letter when the bill for PIN job

is paid by McCaren Park Mews so that I can request DEC central office to take off the PIN number and spill 0605974 can be closed as per the stipulation agrement.Spill#0750535 will remain open until the remedial work is completed as per the Corrective Action Plan(CAP).(s.r)

06/02/08 I spoke with Envirotract's project manager Dave Lorthior regarding the bills, he said they have been paid and he would send us the confirmation by today. Erin Gaus from Test America(Lab) also told me the same.Once we receive the confirmation letter, this spill case will be closed.I contacted with Kris Almskog of P.W. Grosser to get the update on the sidewalk excavation job.As per Kris, A.B. Environmental was hired to perform the work, application for side work permit has been submitted to NYC DOT.Kris also indicated that as part of IRM, wells will be monitored today.(sr)

06/06/08 Rec'd letter/e−mail from Envirotract and Test America confirming that the invoices were paid in full and there is no other bill unpaid associated with spill#0750535/PIN 04394. As per Stipulation agreement,R2−20080502−236 and consent from RSE and DLA(John Urda), spill#0605974 is closed.
** Additional remedial activities will be carried out under Spill#0750535** (sr)

** 06/18/08 I stopped by the site and observed some soil excavation taking place at the south west side proposed parking lot area, soil has black stain and it has odor.I suggested to take soil samples from the bottom of the excavation in a agrid pattern and perform air monitoring today and after. P.W Grosser(Chris Almskog)sending crew to take samples today, as per our conversation today.I also suggested Isaac Swartz to cover the stockpiled soil in order to prevent the odor from spreading.Chris Almskpg indicated that they are working with Keyspan and Contractor A.B. Environmental to schedule the excavation and removal of contaminated soil from under N 11th street sidewalk.(sr)**

06/23/08 I responded to the site with DEC Hasan Ahmed.P.W.G.C rep Jennifer Lewis, AB Environmental, National Grid(KeySpan) rep Douglas Laregina were present at the site.AB Environmental started excavation at MW−1 location.With Keyspan's approval the excavation dimension was approx 9'deep,2'wide and 4' long along N 11th Street.Free product found in the excavation hole that was sucked out by A.B Environmental.Excavation will be back filled today as there is safety issues involved, but will be reopened for more excavation and installation of recovery well.I told PWGC and Issac Swartz that actual dimension of the excavation for efficient and safe recovery of the soil/oil contamination must be determined by a licensed Professional Engineer as per DEC's letter Feb 12'2008.MW−11 was checked for product by a stick and free product was found.MW−12 and MW−4 are also the potential location for free oil contamination.(sr)

07/09/08 I and Jeff Vought discussed sampling result taken from the parking garage area with RSE Mr. Austin.As per RSE, the exceedances of VOC/SVCOs in soil samples are not indicative of petroleum release in that part of the lot and the garage area will be covered with 8" thick concrete slab sealing the pathways for vapor migration, according to the PWGC RAP.However,RSE instructed to check the investigation report of 200 N 11th Street, site west to 204 N 11th for ground water contamination.Phase II investigation report for 200 N 11th Street was checked and only minor exceedances of some VOCs were observed.That spill was closed(0609092).(sr)

10/29/08 Spoke with P.W.Grosser(Kris Almskog)this morning,he said the monitoring wells were surveyed last week and a report will be sent to DEC on quarterly status of the product recovery and monitoring wells.(sr)

** This case is closed and referred to spill 0750535.**

Map Identification Number 125 **AMONIUM HYDROCHLORIDE SPI** **Spill Number: 8604708** **Close Date: 10/23/1986**
215 N. 10TH ST NEW YORK CITY, NY TT−Id: 520A−0040−760

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1814 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ROBINSON BROS. CHEMICALS
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: UNASSIGNED
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/22/1986	10/23/1986	UNKNOWN	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

SPILL FROM VALVE DEP &FD ON SCENE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "
10/10/95: This is additional information about material spilled from the translation of the old spill file: AMONIUM HYDROCHLORID.

Map Identification Number 126 **606 MANHATTAN AVENUE** **Spill Number: 9315136** **Close Date: 11/05/1999**
606 MANHATTAN AVENUE BROOKLYN, NY TT−Id: 520A−0041−414

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1822 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNK
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name: MARCELLA CABRAL
Caller Agency: NYC DEP
Caller Phone: (718) 699−9811
DEC Investigator: ADZHITOM
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/24/1994		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TRANSIT PERSONNEL APPLIED SAND − WILL NOTIFY HAZ MAT − LEAK COMING THRU WALL OF SUBWAY.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHITOMIRSKY"
REFER TO 98−13210 & SP00907.

Map Identification Number 127 **51 KINGLAND AVENUE** **Spill Number: 1204885** **Close Date: 11/27/2012**
51 KINKGLAND AVE BROOKLYN, NY TT−Id: 520A−0277−171

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1825 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: 51 KINGSLAND AVE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: DAVID LIERS − KINGSLAND SERVICE STATION
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: MJHAGGER
Contact for more spill info: DAVID LIERS
Contact Person Phone: 5116) 369−7914

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/14/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL, GROUNDWATER

Caller Remarks:

detected in routine ground water sampling clean up pending

DEC Investigator Remarks:

August 2012: ExxonMobil's consultant, Kleinfelder, found a small quantity of Ethanol in one of the on−site wells (MW−13) at 94ug/l. PM informed EM not to call−in Spills with j−values but apparently they analyzed with a low dilution factor. 50ppb was the quatitation limit. I informed EM that this is was most likely surface run'ff and that if no Ethanol is detected this next quarter the Spill will be closed

November 27, 2012: No subsequent detection of Ethanol. Spill Closed

Map Identification Number 128 **VS 5950** **Spill Number: 0504371** **Close Date: 01/05/2006**

E SIDE KINGSLAND AVE/NEAR FROST ST BROOKLYN, NY TT−Id: 520A−0050−229

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1838 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: KINGSLAND AVE / FROST ST
Revised zip code: UNKNOWN

Source of Spill: UNKNOWN
Spiller:
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: JOHN ANDERSON
Notifier Phone: ( ) −
Caller Name: MARK PIROPATO
Caller Agency: CON ED
Caller Phone: (212) 580−6763
DEC Investigator: GDBREEN
Contact for more spill info: ERT DESK
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/13/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	9.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

E SIDE KINGSLAND AV / 37' N OF FROST ST

on 50 gallons of water
transformer involved − have to pressure test transformer to see if it is leaking. 159710.

DEC Investigator Remarks:

159710.000
W. PINEDO #17237 FOD OPERATOR REPORTS FINDING APPROX 9 GALS OF UNKNOWN OIL ON APPROX 50 GALS OF WATER IN VS5950. NO SEWERS, WATERWAYS, OR PRIVATE PROPERTY AFFECTED. THE SOURCE AND CAUSE OF THE SPILL IS UNKNOWN. THERE WERE NO SUBSTANTIAL CRACKS IN THE STRUCTURE AND THE STANDING WATER HAD NO MOVEMENT. THE EXISTENCE OF ANY SEWER CONNECTIONS, SUMPS, OR DRAINS COULD NOT BE VERIFIED AT THIS TIME. ENV STOP TAG#48666 WAS PLACED AND ONE LIQUID SAMPLE TAKEN. MR PINEDO WILL CHECK OIL LEVEL IN UNIT AND GET BACK TO THE DESK. THIS UNIT WILL ALSO HAVE TO BE PRESSURE TESTED. WAREHOUSE RECORDS DATED 11/8/2002 INDICATE PCB AS 1 PPM LAB SEQ #02−10424−000.

7/13/05 1100HRS J.SANTO BQE WANTS TO UPDATE AMOUNT. REPORTS FOUND APPROX 570 GALLONS OF WATER AND 15 GALLONS OF OIL. UNIT WAS PRESSURE TESTED AND FAILED. UNIT WILL BE CONDEMED.OVER 50 TANKER ORDERED FOR CLEANUP. ENVIR CREWWILL BE DISPACTHED WHEN TANKER ARRIVES. G DONATONE
EPA−NYP004133500

LAB RESULT RECEIVED 7/13/05 − 1344. 05−06975. 12 PPM. TJ − 50495

TRANSF LAB RESULT RECEIVED 7/13/05 − 1451. 05−06988. < 1.0 PPM. TJ − 50495

UPDATE: 7/13/05 − 1705 H. FERNANDEZ − ENV. OPS., REPORTS STRUCTURE DOUBLE WASHED WITH BIO GEN 760. STRUCTURE DRAINED BY ASTORIA TANKER. TAG REMAINS PENDING TRANSFORMER REMOVAL. TJ − 50945

UPDATE 7/13/05 03:30 HRS BQE DINEEN REPORTS THE UNIT WHICH HOLDS 570 GALS AS PER MFG TAG HAS BEEN DRAINED OF 550 GALS, LEAVING THE SPILL AMOUNT AT 20 GALS. ENV TAG REMAINS IN PLACE PENDING REMOVAL OF TRANSFORMER.

UPDATE: 9/26/05 − D. LICHTENSTEIN − ENV. OPS., REPORTS STRUCTURE DOUBLE WASHED WITH BIO GEN 760. TAG REMAINS PENDING TRANSFORMER REMOVAL.

UPDATE − 10/5/05 1600HRS
PAUL SELEGTSOV # 19936 BQE REPORTS UNIT (REACTOR) HAS BEEN REMOVED FROM THE STRUCTURE. ENV. CREW ON LOCATION CLEANING STRUCTURE. NEW UNIT (REACTOR) WILL BE INSTALLED AFTER CLEAN UP.

UPDATE 10/5/05 16:50 HRS ENV OPS BANKHEAD REPORTS THAT THE STRUCTURE WAS DOUBLE WASHED WITH BIO−GEN 760, A SEALED SUMP WAS FOUND, ENV STOP TAG# 48666 WAS REMOVED, AND THE CLEANUP IS COMPLETE.

Map Identification Number 129 **VS5950 − VAULT** **Spill Number: 0401647** **Close Date: 08/31/2004**
KINGSLAND AV/FROST ST BROOKLYN, NY TT−Id: 520A−0050−231

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1838 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: KINGSLAND AVE / FROST ST
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: MR TOJERRA
Notifier Phone:
Caller Name: MARK SCHLAGEL
Caller Agency: CONED
Caller Phone: (212) 580−8383
DEC Investigator: JHOCONNE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/14/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Caller reports labs of 1ppm from 11/03. Spill into 20 gallons of water. Transformer is located in the vault. Cleanup is pending and will be done CoEd crews.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 153400:

FOUND UNDIAPERABLE SHEEN ON 20 GALLONS OF WATER IN VS 5950. NET CREW WILL BE GOING TO LOCATION TO PRESSURE TEST UNIT. HISTORICAL RECORDS INDICATE 1 PPM 11/8/03. CLEANUP PENDING LAB SAMPLE

AND PRESSURE TESTING RESULTS.

LSN 04−03746 PCB <1 PPM

UPDATE: 5/15/04 − 1005

ENV. OPS. REPORTS AN EARTHEN SUMP IN THE STRUCTURE.

UPDATE: 5/15/04 − 1045

J. MIDDLETON − ENV. OPS., REPORTS PRELIMINARY CLEANUP HAS BEEN COMPLETED BY DOUBLE WASHING THE STRUCTURE WITH SLIX. THE EARTHEN SUMP HAS BEEN CEMENTED. TAG REMAINS PENDING PRESSURE TEST BY BQE.

UPDATE: 5/17/04 − 1020

A. BOVE − BQE, REPORTS UNIT PRESSURE TESTED AND HELD PRESSURE. OIL LEVEL & TEMP ARE GOOD. SOME RESIDUAL OIL & WATER ARE IN

STRUCTURE.

Update − 5/18/04 1830hrs

Sam Adedapo Env. Ops Mech all liquids removed from structure with <50 tanker. Double washed structure with 760 biogen. Removed env. stop tag # 12477. Clean up completed.

Map Identification Number 130 **KINGSLAND & FROST AVENUE −MTBE** **Spill Number: 0002006** **Close Date: 09/15/2010**
KINGSLAND AVENUE BROOKLYN, NY TT−Id: 520A−0050−230

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1838 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: KINGSLAND / FROST AVENUE
Revised zip code: 11211

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:	NELSON ABRAHMS	Caller Agency:	METCALF & EDDY	Caller Phone:	(908) 437−7069
DEC Investigator:	SKCARLSO	Contact for more spill info:	ANGELO ELMY	Contact Person Phone:	(718) 391−2123

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/17/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information

OTHER PETROLEUM	UNKNOWN	0	GALLONS	0	GALLONS

Caller Remarks:

TESTING CO FOUND CONTAMINATES IN THE SOIL. ANGELO ELMY IS THE CONTACT CITY OF NY DEPT OF CONSTRUCITON

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
On June 5, 2000, DEC Sigona contacted Angelo Elmay for an update on the discovery of contamination. Left Message on voicemail.
DEC Sigona also contacted Nelson Abrahms and left message req further information.

DEC Sigona received site investigation report dated May 2000 by Metcalf & Eddy. on June 6, 2000.

THE AREA WAS BEING EXCAVATED ALONG GAS STATIONS WHERE A NEW SEWER IS BEING INSTALLED BY DDC.

On September 20, 2005 the DEC received a report dated 6/13/00 "Site Investigation Report, Kingland Ave/Metter Ave. Sewer Project..." by Metcalf and Eddy.

More work needs to be done. Contamination was found, the source is unknown. (March 2006)

11/20/07: Transferred to Sun/Sellberg. (JS/MS)

4/21/08: James Romeo (DDC) no longer works there. Rebecca Tummon, new contact? 718−391−1799 tummonre@ddc.nyc.gov (JS/MM)

08/05/08: Transferred to Kolleeny/Mandac. − JK

08/11/08: Spoke to Dennis Askins. Project was cancelled. Only environmental soil cores were taken. DDC did not investigate further. 78 Kingsland Ave had a UST fuel oil tank excavation; minor SVOC contamination. Kingsland SB−3 had VOC contamination. Sunoco gas station most likely suspect. 78 Kingsland Avenue, Epner Tech., has a tank closure assessment on file. Minor VOC and SVOC in soil. Unlikely. Refer to spill case #8908110 (S. Carlson).

03/03/09: On 2/23/09 I spoke to S. Carlson to see if she had any info on this spill. On 2/27/09, S. Carlson sent an email to John Urda to follow up on status of Spill No. 8908110. She thought these two spills might be able to be consolidated if an investigation was performed. (JK/KG)

08/19/09: Per S. Carlson, Exxon has agreed to perform a site investigation at 51 Kingsland Ave (spill 8908110). Pending the results of the investigation, this spill may be consolidated with spill 8908110. (JK/KG)

9/15/2010 − Carlson: Case consolidated with spill no. 8908110.

Map Identification Number 131 **625 HUMBOLDT STREET** **Spill Number: 9212899** **Close Date: 02/17/1993**
625 HUMBOLDT STREET BROOKLYN, NY TT−Id: 520A−0043−409

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1871 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11222

Source of Spill: PRIVATE DWELLING
Spiller: DMITRA RES
Spiller Phone: (718) 268−4839
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: WALTER URBAN
Caller Agency: BAERENKLAU
Caller Phone: (718) 647−4200
DEC Investigator: CAMMISA
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/17/1993	02/17/1993	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CONTAINED ON CONCRETE FLOOR−SORBENT APPLIED AND P/U−CUSTOMER TO REPAIRTANK

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 132 **IN STREET** **Spill Number: 0613323** **Close Date: 03/13/2007**
MEEKER AVE/ UNION AVE BROOKLYN, NY TT−Id: 520A−0050−752

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1875 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / UNION AVE
Revised zip code: 11211

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	JERARD ALEXANDRE − RELIABLE PAPER RECYCLING	Spiller Phone:	(201) 333−5244
Notifier Type:	Fire Department	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	hrpatel	Contact for more spill info:	OFFICER ON DUTY	Contact Person Phone:	(718) 476−6288

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/12/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	20.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

GARBAGE TRUCK HIT CURB AND PUNCTURED TANK ON VEHICLE; HAS BEEN CLEANED; BEIVE 2 GALLONS ENTERED SEWERS;

DEC Investigator Remarks:

03/13/07−Hiralkumar Patel. spoke with Celest Okoli (347−672−6059) during off hour duty on yesterday. Celest works with DEP. he was at scene. spill was happened after truck hit curb and broke saddle tank. as per Celest, FDNY left drums filled with diesel on street (not on sidewalk) in corner and could be hit by another vehicle during night. Celest asked DEC to remove these drums. discussed with DEC Austin. he told that DEC will not remove these drums as spill happened from truck and have information of responsible party. regarding location of drums on street, he suggest to call FDNY as they left drums on street.
spoke with Celest again and asked him to call FDNY to relocate drums on safe location.
Celest gave truck company's info:

Reliable Paper Recycling
ph. (201) 333−5244

left message at reliable recycling to remove drums from location.

received call from Bob from Reliable recycling today morning. they are removing drums.

all cleaned up. case closed.

Map Identification Number 133 **104 KINGSLAND AVE/BKLYN** **Spill Number: 9012712** **Close Date: 03/15/1991**
104 KINGSLAND AVENUE BROOKLYN, NY TT−Id: 520A−0044−675

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1875 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: Spiller Phone:
Notifier Type: Affected Persons Notifier Name: Notifier Phone:
Caller Name: ARMANDO AMELIS Caller Agency: CITIZEN Caller Phone: (718) 599−5506
DEC Investigator: SJMILLER Contact for more spill info: Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/15/1991	03/15/1991	UNKNOWN	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

STRONG ODOR FROM BASEMENT,DEC INSPECTED BASEMENT,NOTED SUMP WITH CLEAN3" DRAIN BUT FRESH WATER RUNNING INTO SUMP THRU WALL,POSSIBLE BUSTED WATER PIPE,PAINT LIKE ODOR IN BASEMENT & UPSTAIRS.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MILLER"
03/15/91: DEC INVESTIGATED NEARBY DRUM RECYCLING FACILITY,OPERATOR INDICATED NO CHEMICALS WERE DISCHARGED INTO SEWERS,5 FT DEEP SUMP ON PROPERTY,DEC CONTACTED NYCDEP(IWCS).

10/10/95: This is additional information about material spilled from the translation of the old spill file: STRONG ODOR/SEWAGE.

Map Identification Number 134 **COMMERICAL VACANT LOT** **Spill Number: 0801333** **Close Date: 06/03/2011**
235−239 N 9TH STREET BROOKLYN, NY TT−Id: 520A−0215−912
NE CORNER OF ROEBLING

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1882 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RVKETANI	Contact for more spill info:	RAY KAHN	Contact Person Phone:	(212) 363−3775

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/02/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

recieved lab results from a historical site; unknown if it is petroleum or not;

DEC Investigator Remarks:

This site is East side of Roebling/North side of N 9th
Sarah Carlson site is south side of N 9th
Other DEC sites are West of Roebling

6/11/10−Vought−Spill transferred from DEC Vought to DEC Ketani as per DEC Austin and Vought transfer to Section A.

8/25/10 − Raphael Ketani. I made an unannounced site visit. The site was a vacant lot. The south end of the lot had lots of refuse and other debris, but no indications that liquids were being dumped here. The north end of the lot was bare. In the middle of the lot, there were some private vehicles and some roll off containers with what looked like refuse in them.

8/26/10 − Raphael Ketani. The spill took place on 5/2/08 and involved the discovery of some type of material at the site. The spill report indicates that the type of material was not known at the time of the incident.

According to Property Shark, the site is block and lot 2307 and 38. Property Shark shows a picture of a large one story commercial building with no windows. The address is listed as both 35−43 Roebling Street and 235−239 North 9th Street. According to ACRIS, Wing Hon Holding Inc., 2 Rewe Street, Brooklyn, NY, 11211 sold the property on 11/30/07 to 243 North Group, LLC, 543 Bedford Avenue, Brooklyn, NY, 11211.

There is only one PBS registration in the database and no other Spill reports. The PBS is #2−609544. There were 2 550 gal. ASTs in above ground enclosures. Both were closed and removed.

There is no paper file. There are no E−docs.

I tried to contact Ray Kahn of the environmental consulting firm ESPL (212) 363−3775/cell (917) 939−7366. However, I could only leave a message requesting information regarding what was found at the site.

10/13/10 − Raphael Ketani. I spoke to Mr. Kahn (917) 939−7366 regarding the site. He said that the investigation didn't move forward because of the real estate market crash. He said since the DEC is now interested in what's below the site, he will look into the matter and call me back.

12/2/10 − Raphael Ketani. As there has been no information forthcoming from Mr. Kahn, I sent a CSL to 243 North Group, LLC.

12/14/10 − Raphael Ketani. The CSL came back to DEC unopened and marked "refused." I rechecked ACRIS for the latest address for 243 North Group, LLC. I found a document dated 4/15/10 that showed the latest address to be 80 Clay Street, Brklyn, 11222. I resent the CSL to this address.

3/3/11 − Raphael Ketani. As there has been no response from the owners of the site, I sent a followup letter. I set a deadline of April 1 for receipt of the investigation report.

4/1/11 − Raphael Ketani. There has been no response from the owners of the property to the followup letter. Therefore, I sent a STIP package with a deadline of 5/2/11 for the return of the signed STIP.

5/3/11 − Raphael Ketani. Today I received the unopened envelope containing the STIP package. The envelope had a post office sticker indicating that it was unclaimed. I will attempt to hand deliver the STIP.

I made unannounced site visits to two locations in an attempt to locate the owners of the site and their mailing location. The first location I went to was 80 Clay Street in the Greenpoint section of Brooklyn. This turned out to be a one story, yellow commercial building. There was a large Jewish mezzuza on the door frame. I knocked on the door, but no one answered. There was a sign on the door that indicated people should go to 1109−1113 Manhattan Avenue, the cross street location around the corner. I entered the building and met the security guard. He said that 1109−1113 Manhattan Avenue was an apartment building for recovering drug addicts. I saw two sheets of paper behind him with lists of different LLCs which receive their mail here. However, 243 North Group was not one of them. He said that the building at 80 Clay Street had been recently sold (this is what ACRIS shows), but he had never heard of 243 North Group, LLC.

Next, I went to 543 Bedford Avenue in the Williamsburg section of Brooklyn. This was the previous mailing address for 243 North Group, LLC. The location was a small, red apartment building. The entrance to the building was around the corner on the minor cross street. I entered an office which advertised mostly insurance coverage, among other things. I spoke to an orthodox Jewish man who came from the back. He said that unless I had a person's name or post office box number, he could not help me. I left my business card anyway.

I returned and tried ACRIS. There were various UCC3 assigned parties, but it was not clear who should be sent the STIP. Property Shark was no help, either. I tried the NYS corporation database and saw a new mailing address. This was "c/o PERL, 138 Ross Street, Brooklyn, NY, 11211." I will resend the STIP to this address tomorrow.

5/4/11 − Raphael Ketani. I resent the STIP to PERL at 138 Ross Street with a deadline of June 3 for receipt of the signed STIP page.

6/3/11 − Raphael Ketani. I never received the signed STIP or the green return card.

As it was not determined that the substance found was oil when the investigation took place in 2008, and as there is no evidence to confirm or deny that oil substance was oil, and as my site visit on 8/25/10 did not reveal that an oil spill had taken place or that an oil release was likely, and as attempts to contact the owner in order to find out what had been discovered were fruitless, I have determined that there is no basis upon which to continue to have an active spill case for this site. Therefore, I closed the spill case today.

Map Identification Number 135 **44 NEWELL STREET** **Spill Number: 9309647** **Close Date: 12/23/2002**

44 NEWELL STREET BROOKLYN, NY TT−Id: 520A−0044−685

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1890 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 44 NEWEL STREET
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: NEWELL FUEL OIL COMPANY
Spiller Phone: (718) 383−1133
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: STEVE MILLER
Caller Agency: NYS DEC
Caller Phone: (718) 482−4933
DEC Investigator: SJMILLER
Contact for more spill info:
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Any Type of RP, Including No RP − DEC Field Response − Corrective Action Not Required or Not Possible

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/08/1993		UNKNOWN	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SOIL

Caller Remarks:

ANOTHER CITIZEN OIL COMPANY ACROSS ST. TOOLS W/FUEL AND ODORS ARE GENERATED DURING HEATING SEASON.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MILLER"
1/24/94 @1500hrs, MILLER INSPECTED NOTIFIER'S (NEIGHBOR) BASEMENT: NO ODOR AND NO EVIDENCE OF RELEASE. ALSO CHECK OIL COMPANY ACROSS STREET: NO MAINTENANCE, NO IMPROPER STORAGE, NO OIL WATER SEPARATOR, 275−GAL AST IN BASEMENT BUT NO GROSS SPILLAGE AND NO ODORS. ACCORDING TO OIL COMPANY DEP INSPECTED FACILITY 2−WEEKS EARLIER BUT ISSUED NO NOV'S.

ADVISED NEIGHBOR TO CALL ME IF ODOR RETURNS.

Map Identification Number 136 **APARTMENT BLDG** **Spill Number: 1113750** **Close Date: 03/26/2012**
243 JACKSON STREET BROOKLYN, NY TT−Id: 520A−0271−619

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1901 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: HRPATEL
Contact for more spill info: ANDREW KELLY
Contact Person Phone: (718) 595−4761

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/09/2012		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0.01	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Oil suspected to be coming from 33 Kingsland Ave. DEP unable to gain access to bldg. Unknown owner at this time. Further is pending.

DEC Investigator Remarks:

03/09/12−Hiralkumar Patel.
2:56 PM:− spoke with Andrew at DEP. he mentioned that owner of 243 Jackson Street reported an oil seepage into his basement. Andrew inspected site and found few ounces of oil seeping through basement wall. there is a gas heating system at impacted site. he tried to inspect next door building at 31 Kingsland Ave, but no success.

3:03 PM:− spoke with Albert Long, owner of 243 Jackson Street. he owns 243 Jackson street (property at the northwest corner of

Jackson Street and Kingsland Ave). he mentioned that oil found in basement of his building. he has gas heating system, but building at 31 Kingsland Ave has oil heating system.

Albert Long **owner of building 243**
1417 Jefferson Avenue
Brooklyn, NY 11237
Ph. (347) 247−9543
email: cienlada@aol.com

Mellys Long
Ph. (347) 987−9541

as per DOB application approved on 12/28/04, oil burner was replaced with gas burner at Mr. Long's property. <−−−−−−−−−−−−−−

alternate address for 243 Jackson Street: 243−251 Jackson Street, 31A Kingsland Ave
no PBS record found for 243 Jackson Street.
old spill # 0409577 found for 243 Jackson Street. the spill was reported on 11/26/04 due to a petroleum release from a 275 gal tank located closer to the wall. the case was closed based on property owner's statement, but no cleanup report submitted.

alternate address for 31 Kingsland Ave: none
no PBS or spill record found for 31 Kingsland Ave.

4:00 PM:− visited site. met Teresa, building super for 243 Jackson St. its four story buiding with basement. building 243 runs east−west along the north side of Jackson Street. ground floor of the buiding 243 is occupied by: a grocery store (Neighborhood Grocery) at the eastern end of the property (at the northwest corner of the intersection of Jackson St and Kingsland Ave), apartment building entrance in middle and a restaurant (718−349−2400) on the western end of the property. inspected basements under the apartment building and grocery store. found oil on water in the northwest corner of the grocery store basement. oil/water mix also found in the northeast corner of the apartment basement, at the end of the basement stairs. the boiler room is located in the eastern part of the apartment basement. there is a small open area behind the boiler room, between the subject site and the adjacent building at 31 Kingsland Ave. found oil/water in this open area. during inspection, minor odors noticed in basements.

inspected basement at building 31 Kingsland Ave. suspected site has two 275 gal ASTs on legs. no sign of oil spill found under the tanks. fill and vent lines runs aboveground. the two tanks are located along the southern foundation wall in the eastern part of the basement. tank location is along the grocery store basement at building 243. boiler at building 31 is located in the northwestern corner of the basement and supply line between the tank and boiler runs underground. basement at building 31 is about 4 ft higher than basement at building 243.

based on location of tanks at building 31 and most impact in the grocery basement at building 243, oil may have spilled from an underground supply line at building 31.

03/12/12−Hiralkumar Patel.
12:54 PM:− left message for Mr. Long.
1:15 PM:− visited site. met Mr. Long. inspected basement under the restaurant, the apartment and the grocery store.

its a finished basement under the restaurant. no sign of any water or oil seepage found in the basement.

during site inspection, Mr. Long showed location of his old tanks. the tanks at building 243 were located along the southern foundation wall in center of the basement and just right of the basement entrance (which is left of the restaurant entrance) from sidewalk. Mr. Long mentioned that fill port and a vent line for old tanks in his building were located just left of the apartment building entrance (in area between the apartment entrance and restaurant entrance). no sign of oil/water seepage found where the old tanks were located. inspected other parts of basement where oily water observed during site visit on 03/09/12. no oil found at the end of the basement stairs or boiler room or an open area behind the boiler room. during today's inspection, found a drain in the open area and a drain pipe going towards the grocery basement. its looks like whatever oil found in open area and in the northeast corner of the apartment basement, might have came through the drain pipe from the grocery basement.
during inspection of the grocery basement, found a sump like structure in the northwest corner and oil/water in the corner. asked Mr. Long to remove oily water and seal the corner which will prevent further seepage.

Mr. Long mentioned that they had changed a main sewer line about 8 months ago, but they never so oil seepage before. oil spill found by grocery store person when they noticed petroleum odors in grocery basement about two weeks ago.

during inspection, met Lorenzo Ayala, president of co−op board for building 31. there are six co−op units in the building. discussed about possible leak from an underground supply line at building 31. asked him to perform a tightness test of the line and submit result by the end of 03/14/12.

31 Kingsland Ave Housing Development Fund Corporation **owner of building 31**
c/o Lorenzo Ayala **co−op president**
31 Kingsland Avenue, Unit 1R
Brooklyn, NY 11211
Ph. (347) 251−4123

Erica Erazo **co−op unit owner at building 31**
31 Kingsland Avenue, Apt. 2R
Brooklyn, NY 11211

Diana Hodge **co−op unit owner at building 31**
31 Kingsland Avenue, Apt. 2L
Brooklyn, NY 11211

3:28 PM:− spoke with Dennis at Ferrentino Fuel and requested a copy of delivery record for building 31 from Jan. 2011 to Mar. 2012. he asked to send email.

Dennis Gooldstein
Ferrentino Fuel **oil delivery company for building 31**
Ph. (718) 832−6700
email: dennis@ffcenergy.com

3:30 PM:− sent email to Dennis and asked to send delivery record from Jan. 2011 to Mar. 2012.

based on available information, chagned following information in the original spill report (see copy on e−docs):
− spill name: "intersection" to "apartment building"
− site address: "Jackson St & Kingsland Ave" to " 243 Jackson Street"

3:54 PM:− left message from Mr. Long.

03/13/12−Hiralkumar Patel.
10:16 AM:− spoke with Mr. Long. they are going to pump out oil/water today. asked him to call for inspection after pump out and prior to sealing the sump.
10:32 AM:− received call from Mr. Ayala. he mentioned that about two weeks ago, building 39 Kingsland Ave changed from oil to gas heating system and Mr. Ayala suspects that owner of building 39 has dumped excess oil into sewer system. he asked to meet at the site and will provide evidence. informed him that regardless of findings at building 39, the department still requires tightness test of the supply line in his building. informed him about possible site visit tomorrow morning. he will try to have line test done during the site inspection tomorrow morning.
10:40 AM:− received email from Ferrantino Fuel including delivery record for bldg 31 from Oct. 2011 to Mar. 2012. based on delivery record, occupants of bldg 31 used average of about 17−19 gal per day since Oct. 2011 and there is no sudden increase in oil use.

03/15/12−Hiralkumar Patel.
10:00 AM:− visited site. inspected grocery store basement. oily water was removed from basement, but some more oil came into sump. asked cleanup guy to remove the product from sump.
spoke with Mr. Ayala. he mentioned that a technician from his own company checked the system and confirms no leak. informed him that a tightness test of the supply line must be performed and a certified result must be submitted to the Department. Mr. Ayala mentioned that his sister lives in building 39 and will call back with landlord's number for building 39.
10:32 AM:− received message from Mr. Ayala with contact info for property owner for building 39.

Zev Zafir Inc. **owner of 39 Kingsland Ave**
Shloma Stuhl
President
543 Bedford Avenue #239
Brooklyn, NY 11211
Ph. (718) 387−7584

1:10 PM:− spoke with Mr. Long. suggest him to continue cleanup. asked him to call for site inspection before he seal the sump.
2:43 PM:− left message at Zev Zafir Inc.
3:00 PM:− received call from Shloma Stuhl from Zev Zafir Inc. he mentioned that they have gas heating system for more than six months. they only modified gas line on 03/01/12. scheduled a site inspection at 10 AM tomorrow morning. George (917−721−2470) will provide access to building 39.

03/16/12−Hiralkumar Patel. called George multiple times, but no answer. did not visited building 39.

03/19/12−Hiralkumar Patel.
3:45 PM:− visited site. inspected grocery basement. oil hasn't cleaned up yet. no increase in the amount.

03/21/12−Hiralkumar Patel.
9:27 AM:− left message for Mr. Long. informed him that spill in grocery store basement must be cleaned up immediately.

03/22/12−Hiralkumar Patel.

03/23/12−Hiralkumar Patel.
2:04 PM:− spoke with Mr. Long. he mentioned that contractor pumped out oily water from sump until it cleared out.
2:09 PM:− spoke with Elizabeth at 95 Inc., contractor who pumped out oil/water. she mentioned that they pumped out about 50 gal of oily water. she will ask driver to call back, who responded to the site.

Elizabeth
95 Inc.
Ph. (631) 842−9817

2:23 PM:− received call from Dino, driver from 95 Inc. he mentioned that after pumping about 50 gal, he found mostly clear water.

03/26/12−Hiralkumar Patel.
9:15 AM:− visited site. inspected grocery store basement. found mostly muddy water, with some oily water (less than 1 ft by 1 ft area) away from sump area.

received fax from Elizabeth including a disposal manifest.

3:35 PM:− spoke with Mr. Long. asked him to remove the last spot of oily water. informed him that as no more oil coming into the basement, case can be closed. suggested him to seal the basement.

after discussing with DEC Austin, case closed.

Map Identification Number 137 **BMT L LINE** **Spill Number: 0607434** **Close Date: 10/10/2006**
LORIMER/METROPOLITIAN BROOKLYN, NY TT−Id: 520A−0048−000

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1903 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: LORIMER ST / METROPOLITAN AVE
Revised zip code: 11211

Source of Spill: RAILROAD CAR
Notifier Type: Other
Caller Name:
DEC Investigator: SMSANGES

Spiller: DISPATCHER 727 − BMT L LINE
Notifier Name:
Caller Agency:
Contact for more spill info: DISPATCHER 727

Spiller Phone: (718) 965−8261
Notifier Phone:
Caller Phone:
Contact Person Phone: (718) 965−8261

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/29/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

train is being evacuated− unknown what happened and still investigating

DEC Investigator Remarks:

not a petroleum related problem

Map Identification Number 138 **METROPOLITIAN AV AND** LORIMER ST BROOKLYN, NY **Spill Number: 0002207** **Close Date: 11/25/2002** TT−Id: 520A−0042−559

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1903 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: METROPOLITAN AVE / LORIMER ST
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: DIANE ALFIERI
Caller Agency: CITIZEN
Caller Phone: (212) 708−3791
DEC Investigator: JMROMMEL
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/21/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	20.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

caller noticed greenish material on road yesterday and would like it looked into as to what the material is. caller req a call asap

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
Robert L. called.

Caller said that liquid spread out onto four block radius after may 21, sunday's rain. probably started near an empty lot. can see liquid clearly in potholes union ave. no smell of oil or gasline dep was called [case#165296 stan siebenbery] who in turn called sanitation

Map Identification Number 139 **DOUBLE GREEN** **Spill Number: 9614038** **Close Date: 03/17/2003**
122 KINGSLAND AVENUE BROOKLYN, NY TT−Id: 520A−0041−952

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1932 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL VEHICLE
Notifier Type: Affected Persons
Caller Name: ALLADEEN, BEBI
DEC Investigator: TOMASELLO

Spiller: DOUBLE GREEN
Notifier Name: ALLADEEN, BEBI
Caller Agency: CITIZEN
Contact for more spill info:

Spiller Phone:
Notifier Phone: (718) 599−0493
Caller Phone: (718) 599−0493
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/03/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT THIS IS AN ON−GOING PROBLEM WITH THE COMMERCIAL VEHS LEAKING OIL AND OTHER FLUIDS ALL OVER THE ROAD GOING INTO THE PLANT AND OFF THE PROPERTY − HER CHILD HAS FALLEN IN IT AS WELL AS OTHER CHILDREN IN THE AREA

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TOMASELLO/TANG"
Referred To Eco.3/17/2003 − Closed Due To The Nature / Extent Of The Spill Report.

Map Identification Number 140 **DELI** **Spill Number: 0013079** **Close Date: 04/05/2001**
112 NASSAU AVE BROOKLYN, NY TT−Id: 520A−0044−923

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1951 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: 112 NASSAU AV
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: SON'S WORK TEL # − ROBERT BAK (OWNER'S SON)
Spiller Phone: (718) 628−9700
Notifier Type: Local Agency
Notifier Name: FIRE HAZMAT
Notifier Phone: (917) 769−0483
Caller Name: CHERELLE MAYFIELD
Caller Agency: DEP
Caller Phone: (718) 595−6777
DEC Investigator: SMSANGES
Contact for more spill info: FF RIPOLL
Contact Person Phone: (917) 769−0484

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/14/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

spill in inside deli's basement fd on the scene

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
3/14/2001 − Store front building with 3−4 apartments above.

2−275 gallon #2 oil tanks in the basement service the building.

Scaggs & Walsh Oil Company made a delivery (no sign of overfill) Later that day the bottom of one of the tanks (looks like corrosion) gave way and approx 100 gallons went to the basement floor and a drywell floor drain.

NYFD on scene emptied most of the 275 gallon tank into overpack drums. Scaggs & Walsh arrived on the scene and pumped out whatever remained. Scaggs & Walsh's insurance would not cover the loss because the tank is the property of the building owner and the tank failed due to corrosion. Scaggs & Walsh hired Milro Associates after a verbal discussion with the building owner (Robert Bak 718−628−9700) that the cost of the clean up was the responsibility of the building owner.

3/16/2001 − Sangesland called Milro to find the cleanup status. Paul (at Milro) said between 3/14 and 3/15 a 5'x8' section of the floor was opened up and dug down 2' and 2 cubic yards of contaminated soil was removed. Milro is not working today (3/16) because Scaggs & Walsh is installing new oil tanks. Milro will return on Monday 3/19 to continue excavation.

3/20/2001 Paul at Milro says the excavation is approx 5' x 10' x 3' deep. Because of access problems they can't really excavate any more and he'll probably spend one more day on site. Paul said he would PID the samples first and if they don't look bad, he'll back fill before the soil samples come back from the lab.

4/5/2001 End point sample from excavation was tested for:

TCLP Volatiles 8021/STARS (All results were "Non−Detect")

TCLP Polynuc, Arom. Hydrocarbons (BN) 8270 − "Non−Detect"

Spill closed 4/5/2001

Map Identification Number 141 **COMMERCIAL PROPERTY** **Spill Number: 0609092** **Close Date: 04/30/2007**
200 NORTH 11TH STREET BROOKLYN, NY TT−Id: 520A−0048−947

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1951 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: ZEB YOUNGMAN − COMMERCIAL PROPERTY
Spiller Phone: (631) 589−6353
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: ZEB YOUNGMAN
Contact Person Phone: (631) 589−6353

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/08/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DURING SOIL INVESTIGATION FOUND CONTAMINATED SOIL: UNCLEAR OF SOURCE STILL INVESTIGATING

DEC Investigator Remarks:

Sangesland spoke to Zeb Youngman at PW Grocer. He says they did a phase 2 on the site in Late Oct 2006 (labresults not back yet)
5 soil borings − all had petroleum oder and water had oil sheen. widespread problems throughout site.
204 North 11th st (next door) has an open spill number managed by Sharif Rahman and the site is upgradient of this site.
PW Grocer will take additional soil borings to prove the contamination is coming from 204 North 11th.
*********Sharif Rahman is case manager for 204 North 11th St.**********
01/05/07 Rahman− A CSL was sent to (extracted from property shark)

Louise Deyirmenjian
80 Virginia Dr
Manhasset, NY 11030
Case has been transferred to Rahman as he has a spill adjacent to this site.
04/30/07 AES was retained to prepare a Phase II report.The site has a single−story concrete and brick building.The site is a "E" designated site.One UST existed on site and has been removed.One test pit(8−10') was excavated on north side of the lot. Three other soil borings were conducted at three different locations.Eight soil samples were analyzed for VOCs/SVOCs.No VOCs were detected above TAGM, no evidence of free product observed.There were some SVOC exceedances; compound detected are typical of historic urban fill.Comparision of th ePhase II performed by AES and PW Grosser indicate that type of contaminants and concentrations are consistent.AES concluded that containants identified in Phase II investigation consistent with historic urban fill and not petroleum contamination.NFA required.Reports in edocs.(SR)

** There is an open spill case(Spill#0605974) at 204 N 11th Street,which is adjacent to this property.Mccaren Park Mews is the owner of 204 N 11th Street.**

Map Identification Number 142 **SANITATION COMPANY** **Spill Number: 9903762** **Close Date: 07/06/1999**
244 SKILLMAN AVE BROOKLYN, NY TT−Id: 520A−0044−681

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1986 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: SANITATION COMPANY
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: JAMES KAMPIL
Caller Agency: CITIZEN
Caller Phone: (718) 384−3441
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/01/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

caller states that there is a strong odor comingb from property

caller would like a call back

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
7/1− 1:30PM CALLED KAMPIL SMELLS LIKE PAINT THINNER− GARBAGE TRUCKS ARE WASHED WITH CHEMICALS, NEIGHBOR SAID IT THE SMELL IS REALLY STRONG. WOULD LIKE SOMEONE TO LOOK AT THE PROPERTY.

NO ODORS, SKILLMAN CONTRACTING CLAIMED NOT TO WASH TRUCKS ONSITE. CALLER DOES NOT WANT TO PURSUE FURTHER.

Map Identification Number 143 **18 DIVISION PL/BKLYN** **Spill Number: 9103684** **Close Date: 07/03/1991**
18 DIVISION PLACE NEW YORK CITY, NY TT−Id: 520A−0044−677

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1987 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: GOODMAN BARREL CO
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: RANDALL AUSTIN
Caller Agency: NYSDEC
Caller Phone: (718) 482−4933
DEC Investigator: RWAUSTIN
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/28/1991	07/03/1991	OTHER	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

REQUEST BY ASSEMBLYMAN LENTOL'S ON SPILL EVENT AT ABOVE SPILL LOCATION,NEIGHBORS OF SITE CONCERNED AS TO WHAT HAPPENED,DEC (AUSTIN) GOT REPORT FROM NYCDEP (HERNANDEZ).

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"
07/03/91: FIRE STARTED OUTSIDE BLDG THAT MELTED TWO DRUMS OF MURIATIC ACID, SPILL CONTAINED ON PROPERTY & CLEANED UP BY RESPONSIBLE PARTY,INFO CONVEYED TO ASSEMBLYMAN'S OFFICE.

Map Identification Number 144 **GOODMAN BROT STEEL DRUMS** **Spill Number: 0109317** **Close Date: 02/13/2003**
18 DIVISION ST BROOKLYN, NY TT−Id: 520A−0044−688

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1987 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SAME
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: CRAIG GOODMAN
Caller Agency: GOODMAN BROTHERS STEEL DR
Caller Phone: (718) 782−3027
DEC Investigator: SMSANGES
Contact for more spill info: CRAIG GOODMAN
Contact Person Phone: (718) 782−3027

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/20/2001		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTEWATER	OTHER	1.00	GALLONS	1.00	GALLONS	SOIL

Caller Remarks:

WHILE DOING MAINTAINCE ON A PUMP APPROX 1 QT OF WASTE WATER LEAKED

OUT − ALL MATERAL CLEANED UP

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
ADMINISTRATIVE CLOSURE − AUSTIN

Map Identification Number 145 **GOODMAN BROT STEEL DRUMS** **Spill Number: 0109316** **Close Date: 07/07/2003**
18 DIVISION PL BROOKLYN, NY TT−Id: 520A−0044−676

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1987 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SAME
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: CRAIG GOODMAN
Caller Agency: GOODMAN BROTHERS STEEL DR
Caller Phone: (718) 782−3027
DEC Investigator: SMSANGES
Contact for more spill info: CRAIG GOODMAN
Contact Person Phone: (718) 782−3027

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/20/2001		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MOTOR OIL	PETROLEUM	3.00	GALLONS	3.00	GALLONS	SOIL

Caller Remarks:

WHILE DOING ROUTINE MAINTAINCE ON COMPRESSOR 2−3 GAL OF MOTOR

OIL SPILLED FROM MACHINERY

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"

Map Identification Number 146 **MANHOLE 16282** **Spill Number: 9902735** **Close Date: 05/18/2000**
IFO 288 NO 8TH ST BROOKLYN, NY TT−Id: 520A−0044−449

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2011 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: IFO 288 N 8TH ST
Revised zip code: 11211

Source of Spill: UNKNOWN
Notifier Type: Affected Persons
Caller Name: STEVE ROMERO
DEC Investigator: JHOCONNE
Spiller: UNKNOWN
Notifier Name:
Caller Agency: CON EDISON
Contact for more spill info: CALLER
Spiller Phone:
Notifier Phone:
Caller Phone: (212) 580−6763
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/09/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER REPORTS 2 GALLONS ON 15 GALLONS OF WATER. CON ED #125460.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

approx 2 gallons unknown oil on 15 gallons water in mh. Results: 7ppm, cleanup complete and tag removed. Incident is closed.

Map Identification Number 147 **CON ED VAULT #4233** **Spill Number: 0400590** **Close Date: 07/16/2004**
JACKSON/KINGSLEY BROOKLYN, NY TT−Id: 520A−0042−700

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2021 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: JACKSON ST / KINGSLAND AV
Revised zip code: 11211

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	ERT DESK − CON ED VAULT #4233	Spiller Phone: (212) 580−8383
Notifier Type:	Responsible Party	Notifier Name:	BILL MURPHEY CON ED	Notifier Phone: (212) 580−6763
Caller Name:	BILL MURPHEY CON ED	Caller Agency:	CON ED	Caller Phone: (212) 580−6763
DEC Investigator:	SKARAKHA	Contact for more spill info:	ERT DESK	Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/19/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	50.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

vault contains a oil transformer but unsure if that is where it is cominmg from: unsure amount and how it happened: vault was smoking, historic pcb is 10parts per million from 1985: on 500 gallons of water

DEC Investigator Remarks:

e2mis no. 152970:

FOUND 50 GALLONS OF UNKNOWN OIL ON 500 GALLONS OF WATER IN V4233.

AT THIS TIME OIL APPEARS TO BE CONTAINED. THERE WAS SOME SMOKE WHEN ARRIVED ON LOCATION BUT SINCE THEN HAS STOPPED. THERE IS A SEWER CONNECTION (VIA SUMP PUMP) AND SUMP PUMP WAS NOT RUNNING. NO SAMPLE WAS TAKEN AT THIS TIME UNTIL UNIT COMES OFF, AND AT THAT TIME SAMPLE WILL BE TAKEN FROM UNIT. HISTORICAL RECORDS

INDICATE 10.PPM 1985 AND MANUF IS G.E. UNABLE TO DETERMINE WHAT THE CAPACITY IS AND WILL PRESSURE TEST ONCE FEEDER COMES OFF. THIS JOB WILL BE TREATED AS A 50−499 CLEANUP.

ENGINEERING RECORDS INDICATE DRAINAGE IS SEWERED.

PALLADINO REPORTS ONE PURE LIQUID SAMPLE TAKEN FROM STRUCTURE.

Lab Sequence Number: 04−02955−001 Aroclor 1260 441.5 ppm

QC ID: 07−200404181147 Second Sample TOTAL PCB 371 ppm

4/21/04 18:07 HRS. −− A. ADLER, O.S. BROOKLYN/QUEENS EQUIPMENT GROUP, REPORTS TRANSFORMER IS REMOVED.

4/21/04 19:50 HRS. −− A. ADLER OF EQUIPMENT GROUP REPORTS STRUCTURE DOUBLE WASHED WITH BIOGEN 760 & SLIX BY R. ESPONDA. TAG

REMOVED. JOB 100% COMPLETE.

Map Identification Number 148 **NYS DOT − BQE** **Spill Number: 9502369** **Close Date: 05/25/1995**
KINGSLAND & MEEKER AVES BROOKLYN, NY TT−Id: 520A−0042−819

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2022 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: KINGSLAND AV / BROOKLYN QUEENS EXWY
Revised zip code: 11222

Source of Spill: UNKNOWN
Spiller: NO SPILL
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name: MRS. HAWKINS
Caller Agency: NYCDEP
Caller Phone: (718) 595−6700
DEC Investigator: MMMULQUE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/25/1995	05/25/1995	OTHER	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CITIZEN STATED DRUM IS LEAKING UNKNOWN CHEMICAL AT INTERSECTION − TRY CALLING THE CITIZEN AND THERE WAS NO ANSWER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"

Map Identification Number 149 **MANHOLE 4939** **Spill Number: 9901889** **Close Date: 10/18/1999**
564 METROPOLATAIN AVE BROOKLYN, NY TT−Id: 520A−0047−067

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2061 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 564 METROPOLITAN AVE
Revised zip code: 11211

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	FRANK MASSERIA	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	SAME	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/18/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

con ed #124959 spill in manhole pending cleanup

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

Approx 1 gallon unknown fluid on approx 15 gallons water in mh, 564 Metropolitan ave, does not look like oil contained, does not see any sewer connection− cant tell if there is a sump due to water. Sees just primary cable in structure no joint regulator.
He called chem lab and they're on their way to take 2 samples id and pcb. Color of water is brownish color and is poamy.

<1ppm pcb

unknown liquid: 1 gal

pcb 1ppm

AROCLOR 1242 1PPM

AROCLOR 1254 1PPM

AROCLOR 1260 1PPM

<1.0 PPM CLEANUP COMPLETE AND TAG REMOVED. Incident is closed.

Map Identification Number 150 **MONITOR ST & DRIGGS AVE** **Spill Number: 9203429** **Close Date: 06/29/1992**
MONITOR ST & DRIGGS AVE BROOKLYN, NY TT−Id: 520A−0038−085

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2062 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: MONITOR ST / DRIGGS AVE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller:
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: C SCHUBERT
Caller Agency: US GEOLOGICAL SURVEY
Caller Phone: (516) 938−8830
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/15/1992	06/29/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

Caller Remarks:

OBSERV. WELL SITE IS UNDER LARGE PLATE OF ASPHALT AND COMBINING IS MARKEL TO SHOW SITE SITE IS ACROSS STREET FROM P.S. 110 K−3260 IS WELL NUMBER −LOCAL IDENTIFIER DEC FIELD OFFICE WAS NOTIFIED

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"

Map Identification Number 151 **MANHOLE 4376 AND BEDFORD** **Spill Number: 9914569** **Close Date: 03/27/2002**
AVE AND LOROMIER AVE BROOKLYN, NY TT−Id: 520A−0050−307

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2069 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: BEDFORD AVE / LORIMER AVE
Revised zip code: 11222

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: SAME
Notifier Phone:
Caller Name: JAY FOX
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: JAY FOX
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/24/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	1.00	GALLONS	0.00	GALLONS	SOIL
The following material was dropped or revised by the NYS DEC. Call Toxics Targeting for more information						
OTHER PETROLEUM	UNKNOWN	1.00	GALLONS	0.00	GALLONS	

Caller Remarks:

the have a 2 quart oil spill in thier manhole oil is sitting on water.con ed 130553

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"

Map Identification Number 152 **MH 4374** **Spill Number: 0007726** **Close Date: 12/13/2001**
NASSAU AV/LAURAMAR AV BROOKLYN, NY TT−Id: 520A−0042−593

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2069 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NASSAU AV/LORIMER ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: CHRIS HOGAN
Notifier Phone:
Caller Name: RICHARD ROACH
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/01/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
RAW SEWAGE	OTHER	0	GALLONS	0	GALLONS	SOIL
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

133705 sample taken clean up pending

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis #133705 Notes:

10−1−00 Found 2 pints unknown oil on 200gal water mixed with several gallons human waste. Chem Lab results returned <1ppm PCB. Environmental Operations reports cleanup completed by double washing with slix. Liquids removed by tanker, solids by vactor. No leaking equipment.

Map Identification Number 153 **AUNT HEDDY'S BAKERY** **Spill Number: 0608858** **Close Date: 10/04/2007**
234 NORTH 9TH STREET BROOKLYN, NY TT−Id: 520A−0048−950

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2092 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SHARISSA SINGH − AUNT HEDDY'S BAKERY
Spiller Phone: (212) 594−8140
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: JBVOUGHT
Contact for more spill info: SHARISSA SINGH
Contact Person Phone: (212) 594−8140

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/01/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

DURING SOIL AND GROUNDWATER SAMPLING, CONTAMINATED SOIL AND GROUNDWATER WAS DICOVERED AT THIS LOCATION:

DEC Investigator Remarks:

.

city "E" designation
Phase 2 done found petroleum contaminated soil & water.
No petroleum tank on site.... probably from a neighbor
Geo Environmental has been hired by the potential purchaser of the site. They are VERY actively trying to resolve the environmental issues so they can move on with rehabing the existing building on the site. There will be limited excavation on the site, mostly in the basment to accomodate new footings to allow additional floors to be added to the existing building.
Week of 11/20 Geo Environmental will be doing additional soil borings in the area to identify the source of on site contamination.

03/13/07−Vought−File review by Vought:

Revised Remdial Action Workplan (GZA Geoenvironmental−Sharissa Singh−212−594−8140). "The existing building will not be demolished but renovated to accomodate residential condominiums". Petroleum contamination result of "migration from upgradient property (a former gasoline service station)". Site was formerly used as bakery building. Existing foundation systems are to remain in place. "In addition a new self leveling concrete slab will be poured on top of the existing slab to further protect and seal the occupants from the subsurface contamination". "..a sub−surface ventilation system will be installed". NYCDEP Innocent Taziva required excavation of B6, however GZA feels excavation is not warranted at this location. Proposal to excavate soils around B2. NYCDEP also required sub−slab contamination system however GZA feels sub−slab is not warranted. Sub−slab depressurization system pilot test performed to determine radius of influence. One AST on−site (possibly 275−gallon) #2 fuel oil. "...soil exhibiting petroleum odors at 4−6 feet below the basement slab". Groundwater flow to the southwest. Fill material below site("sand, silt, brick and glass) may be contrubuting to SVOCs. Petroleum odors also noted in B6 at 6−8’ below grade. Indoor air samples were also collected from inside residence. ROI pilot test for SSDS show 29’ radius of influence. Air monitoring plan will be implemented during construction. Excavation of soils around B2 "will extend into the soil horizon until no visual evidence of petroleum contamination is noted (approximately 1 foot into the groundwater table)". AST will be removed from basement. Indoor air concentrations of VOCs do not exceed the background levels of VOCs in homes studied by NYSDOH and USEPA. Remedial action report will be submitted. Soil analyticals show: 38500ppb toluene(B2 4−6’bg), 57200ppb ethylbenzene(B2 4−6’bg), 141600ppb xylene(B2 4−6’bg), 519000ppb 1,2,4−trimethylbenzene. Groundwater at depth of approximately 4−6’. Groundwater

analyticals show:7ppb napthalene(MW2), 6ppb tert−butylbenzene(GW2), 17ppb sec−butylbenzene(GW2), 17ppb n−butylbenzene(GW2). As per Singh no signs of leaks at ASTs and all supply/return lines were above ground. Refual obtained immediately downgradient from gasoline station.

Vought called NYCDEP Wuthenow (718−595−4426).

DEC requires: 1)sub−slab depressurization system 2)collection of endpoint samples and analysis for 8260/8270 3)installation of four monitoring wells(three in adjacent sidewalk and on offsite adjacent to suspected source) and determination of groundwater flow direction 4)investigation of offsite gasoline source that is under construction as per Singh.

03/14/07−Vought−Performed site visit to offsite former gasoline station as per Singh, Building removed from site and soil excavated down to approximately 4' below grade. Piles began to be driven into soil. No signs of petroleum odor or staining. Possibly one remote fill port on sidewalk of building. Building address as per work permits is 66 Roebling Street. Inpsection of PBS database and spills database show no records for this address. Spills database shows former spill closed by DEC Carlson (#0503901) with some residual soil contamination left in place (210ppb benzene WC12, 1700ppb xylene WC12 both at depths of 2−4' below grade). Vought called GZA Singh and requested that she return call with source of information that site was formerly gas station. Property Shark database shows building was formerly three story brick warehouse. Stop work order placed on propety fence from DOB. No site activity or personnel at time of visit. Information for suspected gasoline station at 63 Roebling:

Owner/Developer: Roebling Park LLC
320 Roebling Street #316
Brooklyn, NY 11211
DOB Emergency Contact: 718−802−3687

Contractor: YBG Construction of New York
Issaac Schwartz
199 Lee Avenue Suite 617
718−782−1018 fax 718−782−1482
Empire Pile−718−241−3900

Vought called DOB and they do not have case in database. Vought called Issac Schwartz and left message that continued construction may cause health impacts without proper investigation and remediation (if applicable). Vought also explained that if callback was not received then both DEP and DOB would be contacted. Vought called Empire Pile and left message to return call. Vought called DEP Wuthenow and he will return call with E designation of site. Vought received callback form DEP Wuthenow who indicated that site was E designated.

3/15/07−Vought−Received call from Issaac Schwartz. As per Schwartz work has stopped due to illness of contractor. Issac stated that RAP was sent to DEC Walsh and DEC Brezner. Vought discussed installation of monitoring wells, necessity of vapor barrier and possibly further investigation/remedial action.

03/16/07−Vought−Received call from Issac Shwartz (917−282−6071 office:718−218−8330) and Kris Almskog−PW Grosser (631−589−6353). As per Kris previous finding shows groundwater flow direction in opposite direction as GZA flow direction. Vought discussed Waste Characterization Report for former gasoline station site and soil sample analyticals. Vought also provided name and number for Sharissa Singh to PW Grosser so split sampling and witnessing of well installation/determination of flow direction could be

documented by both parties. Required them to contact Department when drilling date is scheduled so site visit may be peformed.

3/20/07−Vought−Spoke to DEC Walsh and he never received report nor knew of site. Vought called Schwartz and left message to resend report as none was on file with the DEC.

03/20/07−Vought−Spoke to Schwartz and he will contact PW Grosser for copies of RAP. Received message from Schwartz that PW Grosser will be sending in RAP.

05/16/07−Vought−Complete File Review by Vought:

Phase I & Phase II Environmental Site Assessment Report (GZA)−10/16/06. Purpose of Phase II was to investigate the presence of Little E Designation by NYCDEP. Site is occupied by Aunt Heddy's Bakery. Two (275−gallon) ASTs in basement. Four soil borings performed on 9/20/06. Groundwater at depth of 9−10'bgs. "Additionally visual and olfactory evidence of petroleum−like contamination were noted in B−1, B−2 and B−4." "Based upon the above findings GZA concludes that a petroleum release at an adjacent or upgradient property has resulted in contamination of the groundwater beneath the site". "GZA recommends that a sub−slab depressurization system be installed at the Site...". Soil analyticals show: Soil analyticals show: 38500ppb toluene(B2 4−6'bg), 57200ppb ethylbenzene(B2 4−6'bg), 141600ppb xylene(B2 4−6'bg), 519000ppb 1,2,4−trimethylbenzene. Groundwater at depth of approximately 4−6'. Groundwater analyticals show 22ppb acenapthene.

Sampling and Analysis Plan (GZA) submitted to NYCDEP Heath−11/7/06. Proposal for GPR survey to find buried tanks and lines, the installation of four soil borings in the basement, collection of soil samples from under basement slab to a depth of 6' below slab and collection of three groundwater samples from site, five wells in sidewalks to determine possible offsite contributions and determination of groundwater flow. Plan shows same boring well locations as those in 10/16/06 report without soil or groundwater analyticals.

Remedial Action Workplan (GZA)−1/9/07. Show additional groundwater analyticals of 6ppb tert0−butylbenzene(GW2), 17ppb sec−butylbenzene(GW2) and n−butylbenzene(GW2)

Letter from DEP Wuthenow to GZA Singh−1/25/07. "Based on our review of the submitted documentation, DEP finds the RAP inadequate. The petroleum impacted soil detected around soil boring B−6 must be removed and disposed of in accordance to all applicable federal, state and local regulations. DEC should be notified of the petroleum release".

Revised Remdial Action Workplan (GZA Geoenvironmental−Sharissa Singh−212−594−8140)−2/9/07. "The existing building will not be demolished but renovated to accomodate residential condominiums". Petroleum contamination result of "migration from upgradient property (a former gasoline service station)". Site was formerly used as bakery building. Existing foundation systems are to remain in place. "In addition a new self leveling concrete slab will be poured on top of the existing slab to further protect and seal the occupants from the subsurface contamination". "..a sub−surface ventilation system will be installed". NYCDEP Innocent Taziva required excavation of B6, however GZA feels excavation is not warranted at this location. Proposal to excavate soils around B2. NYCDEP also required sub−slab contamination system however GZA feels sub−slab is not warranted. Sub−slab depressurization system pilot test performed to determine radius of influence. One AST on−site (possibly 275−gallon) #2 fuel oil. "...soil exhibiting petroleum odors at 4−6 feet below the basement slab". Groundwater flow to the southwest. Fill material below site("sand, silt, brick and glass) may be contrubuting to SVOCs. Petroleum odors also noted in B6 at 6−8' below grade. Indoor air samples were also collected from inside residence. ROI pilot test for SSDS show 29' radius of influence. Air monitoring plan will be implemented during construction. Excavation of soils around B2 "will extend into the soil horizon until

no visual evidence of petroleum contamination is noted (approximately 1 foot into the groundwater table)". AST will be removed from basement. Indoor air concentrations of VOCs do not exceed the background levels of VOCs in homes studied by NYSDOH and USEPA. Remedial action report will be submitted. As per Singh no signs of leaks at ASTs and all supply/return lines were above ground. Refusal obtained immediately downgradient from gasoline station.

Letter from DEC Vought to Chris Horrigan−3/13/07. Letter sent requiring: 1)collection of soil samples from excavation 2)installation of SSDS system 3)delineation via installation of monitoring wells (three wells on sidewalk adjacent to site and one well by suspected offsite source of contamination".

Email from DEC Vought to GZA Singh−3/14/07. Excavation will occur to water table and since soil source will be removed vapor barrier only required (SSDS not required). Vought also required installation of monitoring wells and sent her requirements for installation of vapor barrier as per NYSDOH specs.

Email between Vought to GZA Singh−3/15/01. Singh identified suspected source site as 55−63 Roebling which was formerly used as filling station. Vought called Wuthenow and left message to return call and repeated requirement to install soil and groundwater borings in sidewalk of suspected source at 55 Roebling.

Final Remedial Action Workplan (GZA Singh)−3/20/07. "The exisitng building will not be demolished but renovated to accomodate residential condominiums". "The petroleum contamination encountered beneath the slab of the building is characterized as residual contamination and is the result of migration from an upgradient property". New concrete slab will be poured on existing slab to "further protect and seal the occupants from the subsurface". Remedial action includes excavation of soil at SB−2 and collection of endpoint soil samples, installation of a 10 mil vapor barrier, delineation via installation of off−site and on−site monitoring wells. Report maintains that contamination observed in B2 at 4’6’bg due to capillary fringe contamination from groundwater table. Three borings installed in sidewalks (two on Roebling St and one on North 9th Street). SSDS pilot test was also performed on 1/4/06 showing effective ROI of 29’. Air monitoring plan will be implemented during excavation activities. Indoor and outdoor air quality samples were collected and show VOCs below NYSDOH background concentrations. GZA also performed risk for vapor intrusion as per EPA Guidance and no significant risk. Plan also includes installation of four monitoring wells and determination of groundwater flow as required by NYSDEC. GZA will send in Remedial Action Report (RAR) with remedial actions at site submitted to DEC and DEP.

Email from GZA Singh to DEC Vought−4/2/07. Notice that drilling will proceed on 4/5 and 4/6 and request if anything was heard from owner of 55−63 Roebling.

DEC requires: 1)vapor barrier installation 2)collection of endpoint samples and analysis for 8260/8270 3)installation of four monitoring wells(three in adjacent sidewalk and on offsite adjacent to suspected source) and determination of groundwater flow direction 4)investigation of offsite gasoline source that is under construction as per Singh 5)cc to DEP.

05/17/07−Vought−Called Sharissa to approve Final Remedial Action Work Plan and to inquire about submission of results for sidewalk borings mentioned in same Plan. Vought spoke to Sharissa and soil was excavated to groundwater and endpoint samples were collected and results were received from lab and have not been examined to date. Four wells were installed and they were sampled for soil and groundwater and report will be sent to DEC. Soil and groundwater results show no contamination in front of 55−63 Roebling Street. Excavation will be backfilled, vapor barrier will be installed and new slab will be poured. DEC will send reponse letter once RAR is received and DEC will require quarterly groundwater sampling for one year. Vought instructed Singh to file FOIL request for info on 55−63 Roebling.

10/05/07−Vought−Reviewed Remedial Action Report (GZA Cela) dated September 2007 and received on 09/24/07. Building being redeveloped as residential condominiums. Soil was excavated and endpoint samples were collected. Vapor barrier was installed in two parts, "The first membrane was installed over the excavation after backfilling. The second membrane was installed over the exisiting slab and beneath the 4−inch thick self−leveling concrete slab." Four additional monitoring wells were installed. Groundwater at depth of 6'b below grade and flows to the north−northwest. Four additional soil borings were performed in surrounding sidewalks and converted into groundwater monitoring wells. Borings showed fill material to depth of 8'bg and clayey silt below. "The absence of physical evidence of petroleum contamination in boring B−1 (which was installed at 55−63 Roebling Street) indicated that the source of the contamination was not likely the upgradient, former gasoline station". ASTs were also removed from basement as site will be using natural gas. Soil was excavated to depth of 1.5' below the water table and final depth of excavation was 3.5 to 4 feet below the basement slab. Six tons of soil were removed from the site. Four soil sidewall samples were collected. Soil analyticals show minor dibenzo(a,h)anthracene exceedence (PAH) up to 88ppb attributable to fill material. Groundwater analyticals show 8ppb acenapthene. No further groundwater monitoring required due to non−detect VOCs in past two groundwater sampling events. Vought sent No Further Action letter with cc to NYCDEP. Spill closed by Vought.

Map Identification Number 154 **SHELL** **Spill Number: 9110815** **Close Date: 06/09/2005**
2 BUSHWICK AVENUE BROOKLYN, NY TT−Id: 520A−0051−721

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2099 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 2 BUSHWICK AVE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: SHELL OIL
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: J BYRNES
Caller Agency: HANDEX
Caller Phone: (516) 752−7878
DEC Investigator: KMFOLEY
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/16/1992		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

PRODUCT IN SITE WELL MW3. WAS SULLIVAN SPILL. RE ASSIGNED TO MULQUEEN 4/18/95. SHELL ADDRESSING PROBLEM AT SITE, SEE FILE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "K FOLEY"
SITE IS NOW AN AMOCO, OWNED NY WOLF PETROLEUM, PBS #2−1904112.

DTW:22−24': GWF:NE. PRODUCT IN MW−2 AND MW−3.

8/5/99 mtg: EnviroTrac will review and submit all historical data related to this site going back to the early 1990's.
EnviroTrac will also review the contamination in well #3 and propose a clean up system (possibly biological)

11/03 Reassigned from Sangesland to K Foley.

11/20/03 E−mail from Steve Sangesland to Rob Rule: "It requires opening up a new spill for Amoco before closing out the old Shell spill case for the site. I believe Shell has made it's case that the present problem is due to Amoco's action, but Kerry will need to take action on it."

2/4/04 Spoke to Rob Rule. Requested he send actual historic concentration data. Data from post−1999 is indicative of a new release, however Shell needs to prove their case that concentrations were decreasing toward and close to groundwater standards. Rob indicated they have previously tried to come to an agreement with Wolf Petroleum but had no response.

2/6/04 Received email from P. Sherwood, Phoenix Environmental. He attached copy of 6/6/03 letter to S. Sangesland requesting closure. Shell sold property to Wolf in April 1992. A product recovery pump and SVE system were operated by Shell from 1993 to 1994 to address residual hydrocarbons. Groundwater sampling continued until January 2000. Samples were collected and analyzed for VOCs and SVOCs in February 2003.

From July 1990 to Februrary 1998, MTBE concentrations in on−site wells MW−2 and MW−4 ranged from non−detect to 986ppb.

From Februrary 1999 to February 2003, MTBE concentrations in wells MW−2 and MW−4 ranged from 619ppb to 34,400ppb. Highest concentrations of MTBE in wells MW−2 and MW−4 were 34,400ppb and 23,300ppb, respectively.

From 1990 to 1991, MTBE concentrations in MW−3 ranged from 24,400ppb to 26,000ppb. Product was detected intermittently in MW−3 from 1991 to 2003. On March 30, 1998 product was not present and a groundwater sample was collected with MTBE conc at 3,990ppb. In the most recent groundwater sampling results of MW−3, collected in 2000, MTBE ranged from 181,000ppb to 842,000ppb.

In 1990 and 1991, groundwater samples were collected from MW−1 and analyzed for MTBE. Concentrations ranged from 1,600ppb to 24,000ppb. MW−1 was destroyed in 1993. MTBE concentrations in MW−1 appear to be a minor spike, localized to the tank field area. This is supported by the fact MTBE concentrations in downgradient well MW−2 ranged from 14ppb to 986ppb until 1999, when concentrations increased significantly.

6/8/04 Meeting with Shell. They agreed to keep monitoring gw until legal issues have been resolved with Wolf for spill #0330060.
DEC expects resolution in 6−12 months.

11/23/04 Met with P. Sherwood, B. Hoashi(Phoenix) and R. Rule(Shell). Samples collected 8/30/04 showed 0.38' free product in MW−3. BTEX ranged from 3ppb(MW−2) to 20ppb(MW−4). MTBE from 18ppb(MW−2) to 251ppb(MW−4). Requesting closure due spill under new owner.

See spill #0330060.

NYSDEC FALL 1998 MTBE SURVEY INFORMATION FOR 9110815

Maximum MTBE concentration: 2200.0 PPB
Current MTBE concentration: 47.0 PPB
BTEX offsite: No

Source of MTBE
- Steel Underground Storage Tank −
- Fiberglass Underground Tank −
- Aboveground Storage Tank −
- Piping − X
- Source not identified −
- Other source −

Number of private drinking water wells impacted: 0
Number of public water supply wells impacted: 0
Number of private drinking water wells impacted: 0
Number of replacement wells drilled: 0
Number of water main extensions: 0
Number of water main hookups: 0
Number of residences provided w/ bottled water: 0
Number of people affected: 0

Indoor Air Impacts : No
Aquifer Impacts : No

Ongoing remediation: Yes

Monitoring Frequency
- Monthly −
- Quarterly −
- Semi−annual −
- Annual −
- Other −

Remedial Action used
- No Action −

Groundwater
- Pump and Treat −
- Air sparging −
- Bioreactor −
- Natural attenuation −
- Oxygen injection −
- Biosparging −
- Dual phase extraction −
- Other − X

Soil
- Soil Vapor extraction −
- Excavation and disposal − X
- Bioremediation −
- Low temp thermal desorption −
- Oxygen injection −
- Other −

Under investigation: Yes
Dept. of Health involvement: No

Dept. of Health Remarks: No remarks given for this spill

General Remarks: GW other: Porduct recovery system.

Map Identification Number 155 **213 NORTH 9TH STREET** **Spill Number: 0708819** **Close Date: 10/22/2008**
213−217 NORTH 9TH STREET BROOKLYN, NY TT−Id: 520A−0210−496

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2102 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: FRED BARILLA Spiller Phone: (631) 589−6353
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: AXDORONO Contact for more spill info: FRED BARILLA Contact Person Phone: (631) 589−6353

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/13/2007		OTHER	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

PHASE TWO INVESTIGATION FOUND CONTAMINATED SOIL:

DEC Investigator Remarks:

Sangesland left a voice message with Fred Barilla requesting additional information on the Phase 2 investigation and any follow up work they may have already planned.
12/07/07 A csl was sent to

Mr. Simon Dushinsky
Hope Street Holdings
39 Hayward Street
Brooklyn, NY 11211
01/30/08 I inspected the site this morning, met PW Grosser rep Fred Barilla.He indicated that one 1,000 gallon tank, partially buried was removed from the SE corner of the site.PW did not witnessed the tank removal but there was few inches of sludge at the bottom of the tank.Soil excavation is being done today at the former tank location, contaminated soil discovered at the tank bottom.I did smell petroleum at the excavation area and recommended covering of the stockpiled soil to prevent spreading odor.I also told them to collect soil sample from the bottom of the tank excavation to characterize the soil.There was no liquid product observed at the excavation hole during my visit, but later on,I got a call from Fred Barrilla saying that they discovered free product at the hole after my departure.I strongly recommended to take pictures, samples of the product from the hole.Fred said air monitoring is being done continuously and actions will be taken as per health and safety plan previously submitted to DEC.There are two other spots where they found anomaly on GPR survey on the site.(SR)

******The site is designated with a Hazardous Materials"E"(E−138) as part of the Greenpoint−Williamsburg Rezoning Action(CEQR#04DCP003K)******

02/20/08 Preliminary Phase II was done in September 2006.Five soil borings were performed. Elevated VOCs and SVOCs were detected in soil and ground water.PW Grosser performed supplemental investigation in October 2007.Several elevated VOCs were identified at B 14, several SVOCs were also identified above RSCOs limit across the site.Three ground water samples were collected from B12, B15 and B16.VOCs in ground water were within the NYSDEC GQS.In January 2008 investigation, Area of B−14(Center of the site)has elevated VOCs along the south wall and excavation bottom at north side.Recent VOCs in end point soils are: Benzene 500 ppb, Ethylbenzene 8900 ppb, m+p−Xylene 30,000 ppb,n−Propylbenzene 16000 ppb, Isopropylbenzene 7400 ppb; VOCs concentration in ground water are:Benzene 110 ppb,Isopropylbenzene 300 ppb, Naphthalene 1800 ppb, Ethylbenzene 69 ppb,1,2,4 Trimethylbenzene 590 ppb,p−Isopropyltoluene 1200 ppb,n−Butylbenzene 1200 ppb.End point samples along N 9th street will be collected, was not taken due to additional excavation.Soil and GW testing at western side of the excavation also required.
RAP and Phase II report are in the file.
Case referred to Remedaition section for further management.(SR)

02/25/2008: This spill case was transferred to A. Doronova. AD

Spoke with F. Barilla of PWG and scheduled site visit for Friday, February 29, 2008.

02/29/2008: Visited the site with J. Kolleeny. Fred Barilla of PWGC and David Yedelson (attorney) met us at the site. They showed property grounds with three areas of concern. There are some high hits of petroleum contamination in groundwater sample from test pit TP−3 (few thousand ppb), no soil analytical data was available for this boring. Also some elevated levels of VOCs and SVOCs were detected in the Excavation pit B14 (Benzene − 110ppb) It was agreed that the consultant will provide DEC with a work plan for some additional groundwater delineation through installation of a few GW wells< and to include in this plan some remedial actions such as: RegenOx application into the excavation pits and excavation of the soil in the area of test pit TP−3. AD

03/07/2008: Received a ecopy of work plan from F. Barilla of PWG. Will review. AD

03/10/2008: Reviewed the work plan. Monitoring wells locations have to be changed. Spoke with F. Barilla of PWG. Asked him to relocate the wells and indicate on the site diagram extend of excavation.

Amar Nagi of DEC requested preparation of the STIP for this site to ensure implementation of the required by DEC investigative and remedial actions. AD

03/11/2008: Prepared the STIP with a cover letter and CAP. Spoke with F. Barilla of PWG. Informed him about DEC decision to issue the STIP and additional requirements to the investigation plan. Faxed him the site diagram with locations for four more wells. Sent the STIP to Mr. Simon Dushinsky of the Rabsky Group, LLC. with cc: J. Kolleeny − DEC; F. Barilla − PWG and file. AD

03/13/2008: Spoke with D. Yedelson. He was disagree with Paragraph 3 in STIP. I referred him to J. Urda of DEC. Spoke with J. Kolleeny regarding this site. AD

03/14/2008: D. Yedelson sent an email to Ms. Suzanne Y. Mattei of DEC with request to schedule a meeting. AD

03/25/2008: Spoke with D. Yedelson. He would like to schedule a meeting with DEC regarding Paragraph 3 in Stipulation Agreement. AD

03/28/2008: D. Yedelson copied me an email he sent to Ms. Mattei of DEC with request of time extension to execute the stipulation until the issue with Paragraph 3 in STIP will be resolved. Forwarded his email to John Urda of DEC, because of legal issues involved. Spoke with J. Urda. AD

04/03/2008: Received a copy of email from D. Yedelson to Ms. Mattei of DEC in which he states that his client will submit the requested remedial and investigatory work plan today and Mr. Yedelson is scheduling the field work. STIP was not signed yet. Forwarded this email to J. Urda of DEC. AD

04/07/2008: Received a Supplemental Investigation Workplan from PWG. Spoke with J. Urda. AD

04/09/2008: Spoke with J. Urda and L. Oliva of DEC regarding submitted investigation work plan. They confirmed that I can review the work plan and issue an approval letter if applicable, without signed STIP. AD

04/14/2008: Sent an approval letter to Mr. Dushinsky of Rabsky Group, LLC.(owner). (cc: J. Kolleeny−DEC; F. Barilla−PWG; eDocs). Spoke with Fred Barilla of PWG, to make sure they will collected soil samples from soil borings. AD

Received an email from F. Barilla of PWG.

05/02/2008: Spoke with D. Yedelson regarding backfilling of the excavation pit. They plan to do it on Monday, May 5, 2008. Will visit the site prior the backfilling. AD

05/05/2008: Visited the site with J. Kolleeny of DEC. Met with F. Barilla of PWG and D. Yedelson. Newly installed monitoring wells were surveyed and sampled. GW labresults are not ready yet. End−point soil samples results from excavation around TP−3 did not indicated VOC concentrations above required standards. Approved to backfill excavation pit in the vicinity of TP−3. Asked to collect six additional individual end−point soil samples from the excavation pit along 9th street and along the night club building. Requested to submit a summary report with conclusions and recommendations. AD

05/14/2008: Received hard copies of laboratory results. Will review. AD

08/14/2008: Called and left a message to F. Barrila regarding the report submission. AD

09/16/2008: Received a Spill Closure report. Will review. AD

10/01/2008: Spoke with Fred Castellano of PWG, asked him to submit PDF copy of the report. AD

10/06/2008: Received requested CD with the report. Was not able to DL it to eDocs due to oversized format. AD

10/10/2008: Reviewed the report. Some data is missing. Called and left a message to F. Castellano regarding re−submisssion of CD. AD

10/14/2008: Called and spoke with Cris of PWGC regarding new PDF copy of the report and some missing data (analyticals for end−point samples SW−1B through SW−4B, and map with location of soil samples CS1 through CS−7). He said that requested data will be submitted in a few days. AD

10/17/2008: Received a phone call from Z. Youngman of PWGC. He sent CD with PDF copy of the report today with some changes. We will recieve it probably Monday, Oct. 20. AD

10/21/2008: Received a reduced size PDF copy of the spill closure report. DL to eDocs. A requested summary table with results for samples SW−1 trough SW−4 was presented. Regarding samples CS1 trough CS−7 Mr. Youngman explained that they were collected for waste soil characterization. AD

10/22/2008: Discussed the site with J. Kolleeny of DEC. Issued a NFA letter addressed to Simon Dushinsky of Hope Street Holdings. (cc: J. Kolleeny−DEC, D. Yudelson − attorney, Zeb Youngman−PWGC, file). This decision was made based on submitted analytical data and remedial actions performed at the site. In addition, this site is listed as "E" restricted by NYCDEP, so future mitigation work such as:
− removal of any additional contaminated soil found during pre−construction excavation at the site;
− installation of vapor barrier beneath new slab;
− installation of sub−slab depressurisation system;
will be required at the site by the NYCDEP in conjunction with the construction of the proposed building. AD

Map Identification Number 156 **SERVICE VS5743** **Spill Number: 9814654** **Close Date: 03/11/1999**
BEADEL ST/DEBEVOISE ST BROOKLYN, NY TT−Id: 520A−0051−767

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2107 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: BEADEL ST / DEBEVOISE AV
Revised zip code: 11222

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	ZAMBRIO	Notifier Phone:	
Caller Name:	MIKE CESARE	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	CAENGELH	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/09/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 OUNCE IN VAULTED SERVICE BOX − CASE #123525 −

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
DEC Inspector notes:

3/10/99 1427: emailed ERT's for e2mis reports.

Con ed e2mis #123525 notes:

A. LOSCHIAVO #38089 OS NETWORK REPORTS IN VS5743 S/S BEADEL ST 220' E/O DEBEVOISE ST HE FOUND APPROX 1 OZ UNKNOWN FLUID ON 30 GALLONS OF WATER. FLUID WAS UNDIAPERABLE. HE PRESSURE TESTED TRANSF AND FOUND NO LEAKS. NO OTHER OIL FILLED EQUIPMENT IN STRUCTURE. HOLE CONTAINED, NO SEWER CONNECTION OR SUMP PUMP IN HOLE. THERE IS A SUMP IN HOLE. NO SEWERS OR WATERWAYS AFFECTED. HE FOUND UNKNOWN FLUID WHILE INSPEC TRANSF ON FDR. 5B23 OUTAGE. SAMPLE TAKEN 4−6 HRS PRIORITY FOR RESULTS AND E.S.TAG #08236 WAS PLACED. WAITING RESULTS FOR CLEANUP. NO PARKING TUES AND FRIDAY 11 AM TO 2 PM CIG M.CESARE NOTIFIED 1357 HRS

3−9−99 20:05 HRS LAB SEQ# 99−02483 <1.0 PPM.

@ 00:12 HRS 10/03/99 F. DELLATORRE REPORTS CLEANUP COMPLETED USING SLIX & STOP TAG # 82336 REMOVED.

Map Identification Number 157 **105 BEDFORD AV** **Spill Number: 9711671** **Close Date: 05/01/1998**
105 BEDFORD AVENUE BROOKLYN, NY TT−Id: 520A−0048−951

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2130 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 105 BEDFORD AV
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: UNK
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: STEVE ADAMS
Notifier Phone: (718) 349−8253
Caller Name: STEVE ADAMS
Caller Agency:
Caller Phone: (718) 349−8253
DEC Investigator: MCTIBBE
Contact for more spill info: STEVE ADAMS
Contact Person Phone: (718) 349−8253

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/25/1997		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PAINT	OTHER	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

OLD PAINT FACTORY AT LOCATION IS BEING DEMOLISHED. SOIL SAMPLES WERE TAKEN IN NOVEMBER THAT SHOW CONTAMINATION FROM THE PAINT INGREDIANTS. DEMOLITION COMPANY IS WASHING DOWN THE SIDEWALKS AND SPREADING THE CONTAMINATION INTO THE SEWER SYSTEM

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
REFERED TOM HAZ WASTE REMEDIATION.

Map Identification Number 158 **NEW APT BLDG/FORMER PAINT FACTORY** **Spill Number: 1001766** **Close Date: 05/17/2010**
95 BEDFORD AVENUE , NY TT−Id: 520A−0252−629
BEDFORD AND NORTH 12TH STREET

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2130 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	jbvought	Contact for more spill info:	CELEST OKALI	Contact Person Phone:	(347) 672−6059

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/14/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
METALS	OTHER	0	UNKNOWN	0	UNKNOWN	SOIL, SEWER

Caller Remarks:

UNKNOWN CHEMICAL LIQUID LEAKING FROM TWO RED TANKS ON A CONSTRUCTION SITE, POSSIBLY FLOWING INTO STORM DRAINS.

DEC Investigator Remarks:

5/14/10−Vought−Secondary off hours responder and received intial call from hotline as DEC Zhune not available. Vought called and spoke to NYCDEP Celeste Oloke (Cell:347−672−6059) and spill coming from leaking dewatering system that is used to dewater a site where an apartment building is being constucted at the location of a former paint factory. Celeste indicated he received calls from concerned neighbors who knew the industrial nature of the site and were concerned about the dischage effluent impacting the sewer system. Oloke noted that no sheen or petroleum odors were associated with the leaking effluent and that DEP Hazmat was formerly onsite. Oloke also indicated that site did have a NYCDEP discharge permit. Oloke indicated that site owner was lised at 95 Bedford LLC. Contact information on site fence is:

NGI Construction
718−782−4624

Vought googled site address and noted "blogs" of concerned neighbors regarding possible contamination issues at the site and also noted that the Site is a listed EPA RCRA Site. Contact as per EPA database is Sheya Ruttner (Ph:718−782−4624).

5/17/10−Vought−As per DEC Zhune, she spoke with NYCDEP Oloke who returned to site on night of 5/14 and discharge pipe was repaired. Spill closed by Vought as non−petroleum spill and repair of leaking dewatering discharge line. Vought noted that site was E designated and called NYCDEP Dan Cole (Ph:212−341−0964) who noted that he was case manager on site and that site was heavily contaminated with metals and SVOCs. Cole noted that majority of contaminated soil removed from site and that letter was sent to NYCDEP Nagi dated 4/8/08 notfiying him of excessive metal concentrations and requiring further guidance. As per Cole he received call from former DEC Chawla noting that if Cole wished to list site as Hazardous Waste site then he should do so. Cole noted that prior soil concentrations of metals onsite were up to 5400ppm arsenic and very high lead levels. Cole also noted that case was being managed by Environmental Business Consultants (Charlie Sosik 631−504−6000). DEC Austin called and left message for DEC BSHM Paul John to return call.

DEC possibly requires:
1)referral to DEC Remediation or RCRA Unit
2)followup and possible closure of spill 0808463
3)possible report submission by EBC Sosik
4)Discussion with DEC nagi.

Map Identification Number 159 **EIGHT GAL XFMR LEAK IN MANHOLE #1706** **Spill Number: 0707397** **Close Date: 12/28/2007**
155 NORTH 11 ST (AT BEDFORD AVE). BROOKLYN, NY TT−Id: 520A−0210−594

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2130 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 155 N 11TH ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN NAME − CON EDISON
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: gdbreen
Contact for more spill info: ERT DESK‘ MIKE DAUGHTERY
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/04/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	8.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

8 gal. of unknown oil found in a transformer manhole. Clean up is pending test results. No to the five questions. ConEd#208389

DEC Investigator Remarks:

12/28/07 − See eDocs for Con Ed report detailing cleanup and closure.

208389. see eDocs

Map Identification Number 160 **MH4940** **Spill Number: 0006690** **Close Date: 11/26/2001**
LORIMER ST/DEVOE ST BROOKLYN, NY TT−Id: 520A−0038−743

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2150 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR ZAMBRIO
Notifier Phone:
Caller Name: MARK SCHLAGEL
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/06/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

300 gals water in mh. no sewers or waterways

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis #133224 Notes:

9−6−00 1pt unknown oil on 300gal water in amnhole. Only oil filled equipment in hole is cable. Liquid sample taken returned <1ppm PCB.

12−20−00 Flush employee reports cleanup complete, no sump in structure. Cleanup completed by double washing with slix. Liquids removed by tanker, solids by vactor. No leaking equipment.

Map Identification Number 161 **MANHOLE #4382** **Spill Number: 9911493** **Close Date: 02/15/2002**
640 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0042−467

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2164 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: RICHARD ROACH
Notifier Phone: (212) 580−6764
Caller Name: RICHARD ROACH
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info: RICHARD ROACH
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/03/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 gal unk oil on 100 gals of water − sample taken clean up pending lab results

con ed #129466

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"

Map Identification Number 162 **HYDRO TECH** **Spill Number: 0508858** **Close Date: 01/25/2007**
170 NORTH 11TH STREET BROOKLYN, NY TT−Id: 520A−0040−743

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2208 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: MARK ROBBINS − HYDRO TECH
Spiller Phone: (631) 462−5866
Notifier Type: Responsible Party
Notifier Name: MARK ROBINS
Notifier Phone: (631) 462−5866
Caller Name: MARK ROBINS
Caller Agency: HYDRO TECH
Caller Phone: (631) 462−5866
DEC Investigator: rmpiper
Contact for more spill info: MARK ROBBINS
Contact Person Phone: (631) 462−5866

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/25/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SOIL SAMPLES CONTAINED PAH

DEC Investigator Remarks:

Nov 7, 2005
A "Contaminated Soil Letter" was sent to:

Selim Akyuz P.E.
Kiska Construction Corp
181 North 11th− St, Suite 302
Brooklyn, NY 11211

12/12/05−Vought−Reviewed Remedial Action Plan (HydroTech 631−462−5866) dated 11/8/05 and received on 11/18/05. Site labelled by DEP as E designated site (#05DEPTECH063K). "The RAP documents the proposed screening segregation and disposal of contaminated soil from the site during to future site development. NO VOCs on site and SVOCs "appear related to urban fill material". Soil will be segregated on PID basis. Endpoint samples will be collected, "as per DER−10 samples will be obtained for every 30 linear feet of sidewall and every 950 square feet of bottom". DEC requires: 1)submission of detailed soil description of endpoint

samples 2)submission of endpoint analyticals to the Department 3)installation of vapor barrier. Vought sent letter approving of RAP pending inclusion of above requirements.

3/15/06−Vought−Spoke with Rachel (Hydrotech) and excavation was performed and elevated levels PAH's. Report will be submitted to DEC.

05/17/06−Vought−Spill transferred from DEC Vought to DEC Piper as per DEC Austin.

5/19/06− DEC Piper reviewed vapro barrier specification and they are acceptable providing they follow the manufacturers specs.

DEC Piper reviewed report. As per report, approx 43 tons of soil were removed,. Enpoints revealed no VOC's above RSCO's and low levels of SVOC related to urban fill. A vapor barrier was placed and the area was backfilled. Piper looked at historical sanborns, as per maps , there were AST in vicinity of property though no UST and underground piping. This area has isolated xontamination through historic use. This spill is closed,.

Map Identification Number 163 **W OF ROBLING AV** **Spill Number: 9814263** **Close Date: 04/02/1999**
N 8TH ST BROOKLYN, NY TT−Id: 520A−0050−180

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2226 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR WAYNEWRIGHT
Notifier Phone: (212) 580−6763
Caller Name: TONY CONSTATINE
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/26/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 PINT OF UNK OIL (TM69) WAS INADVERTENTLY SUCKED UP INTO A FLUSH TRUCK − 123305 IS CON ED REEF # − TRUCK IS BEING QUARINTINED IN YARD

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con ed e2mis notes:

Approx 1 pt unknown oil mixed with 4 cubic feet of dirt from floor of TM. No oil remaining in TM. I&A networks pressure tested and checked oil level of TM−− no leaks and oil level okay. Truck was quarantined in the 3rd ave yard. One sample oil and dirt sent to chem lab.

Results water <1.00ppm.

W.Tudy Env. ops reports <1.0 ppm cleanup complete and tag removed. Incident is closed.

Map Identification Number 164 **MAN HOLE #4934** **Spill Number: 0004891** **Close Date: 10/23/2001**
UNION AVE / KEAP ST BROOKLYN, NY TT−Id: 520A−0038−057

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2266 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	UNKNOWN − UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	TONY LOPEZ	Notifier Phone:	(212) 580−6763
Caller Name:	TONY LOPEZ	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6764
DEC Investigator:	JHOCONNE	Contact for more spill info:	TONY LOPEZ	Contact Person Phone:	(212) 580−6764

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/24/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

con ed # 132535 spill confined in man hole clean up pending lab results spill on surface of 60 gallons of water

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis Notes:

7/24/00 1/2pint unknown oil on 60gal water in manhole. One liquid sample taken. Cleanup treated as 50−499ppm. Sample returned <1ppm. Water was pumped into tanker. 1 barrel solid waste removed. Manhole double washed with slix. Wash water pumped into tanker. No earthen sump.

Map Identification Number 165 **MH 225** **Spill Number: 0000119** **Close Date: 01/17/2002**
AINSLIE ST/LEONARD ST BROOKLYN, NY TT−Id: 520A−0038−637

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2269 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR WAYNWRIGHT
Notifier Phone: (212) 580−6763
Caller Name: MARK SCHLAGEL
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/04/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

no sewers no waterways 130734

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Con Ed e2mis #130734 Notes:

4−4−00 1000hrs

4qts unknown oil on top of mud in manhole 225. Sample will be taken.

5−5−00 LSN 00−03255 <1ppm PCB

7−12−00 1030hrs

Cleanup completed by double washing with slix. Liquids removed by tanker, solids by vactor. No leaking equipment. No sump.

Map Identification Number 166 **VACANT LOT** **Spill Number: 0601688** **Close Date: 03/28/2008**
165 NORTH 10TH ST BROOKLYN, NY TT−Id: 520A−0048−058

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2280 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: SELIN AKYUZ − KISKA CONSTRUCTION
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: VXBREVDO
Contact for more spill info: RACHEAL ATAMAN
Contact Person Phone: (631) 462−5866

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/15/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SOIL SAMPLE FAILURE. CLEAN UP IS NOT IN PROCESS.

DEC Investigator Remarks:

Contaminated Soil Letter sent to:

Kiska Group
Mr. Selin Zkyuz
170 North 11th St
Brooklyn, NY 112

05/24/06 Sharif Rahman− Rec'd Phase II report prepared by Hydro Tech Environmental,Corp. The site is a NYCDEP 'E' designated site. Borings were installed to investigate the subsurface soil and ground water quality.High concentration of VOC's(SP: Benzene−84,200 ug/kg,Toluene−79,900 ug/kg, Ethylbenzene−51,700 ug/kg, Xylene, Naphthalene−5,180,000 ug/kg) and SVOC's are present in soil and ground water(Benzene− 402ug/L, Toluene− 112 ug/L, Ethylbenze− 26.6 ug/L, Naphthalene−727 ug/L). Visual and olfactory evidence of petroleum was also identified in soil probes.Presence of signifcant level voc's/svoc's warrants long term soil and ground water remediation.Consultant recommended for excavation of the contaminated soil and injection of ORC to treat impacted ground water.
Case has been transferred to Remediation Section B.

6/21/06 − Tang, reviewed site assessment report dated 5/3/06 by HydroTech. GW impact is minimal. Bulk of the contamination is in soil. Since this is an "E" designated site by NYCDEP and DEP has already approved a work plan to excavate the contaminated soil, DEC will not require GW remedy. Spoke to Kathy DeVoe of HydroTech, informed her to submit the end point sampling results after all the contaminated soil are excavated. Will track this as a P3 site. − KST

9/11/06 − HydroTech, Kathy Devoe wrote: "We will be starting the field work at the above referenced Site on Monday,September 18, 2006. We are expecting the field work to last approximately 3 days. If there is any change in the scheduling I will let you know." − KST

Map Identification Number 167 **IFO HOUSE** **Spill Number: 9905189** **Close Date: 09/28/1999**
143 AINSLIE ST BROOKLYN, NY TT−Id: 520A−0047−066

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2293 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: RESIDENCE
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name: ANONYMOUS
Caller Agency: CITIZEN
Caller Phone: (000) 000−0000
DEC Investigator: HUANG
Contact for more spill info:
Contact Person Phone:

Category: Investigation indicates there was no spill.
Class: Any Type of RP, Including No RP − DEC Field Response − Corrective Action Not Required or Not Possible

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/30/1999		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
RAW SEWAGE	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller reports sewage coming from property listed above, has been going on for over 1 month.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 168 **STAR SOAP AND CANDLE CO.** **Spill Number: 0706592** **Close Date: 09/13/2007**
304 NORTH 7TH STREET BROOKLYN, NY TT−Id: 520A−0037−679

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2303 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: WINSTON
Spiller Phone: (516) 779−7922
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: hrpatel
Contact for more spill info: WINSTON
Contact Person Phone: (516) 779−7922

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/13/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

WHILE PUMPING OUT WATER FOUND OIL MIXED IN:

DEC Investigator Remarks:

09/13/07−Hiralkumar Patel. spoke with Joe. they were hired by Mr. Winston to pump out water from basement of commercial building.
during pumping, they found about 10 gal of oil on top of water. as per Joe, it could be #2 oil but due to mix with debris, it
look like #6 oil.

all cleaned up.

PBS #: 2−236594

Perry Finkelman **property owner**
American Development Corp.
Ph. (718) 377−0106 (O)
(516) 770−9004 (C)

Winston Wilson **property manager**
Ph. (516) 779−7922 (C)

found another spill cases reported for same site: 0706476 & 0706478.

refer to spill #: 0706476.

Map Identification Number 169 **STAR SOAP AND CANDLE CO.** **Spill Number: 0706478** **Close Date: 09/13/2007**
304 NORTH 7TH ST BROOKLYN, NY TT−Id: 520A−0037−673

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2303 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: STAR SOAP AND CANDLE CO.
Spiller Phone: ( ) −
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rmpiper
Contact for more spill info: JOHN WILSON
Contact Person Phone: (718) 595−4784

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/10/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	500.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

NEW OWNERS ARE THE AMERICAN DEVELOPEMENT GROUP LLC. #516−565−5600; UNSURE WHEN THE SPILL OCCURED BUT IT WAS NOTICED TODAY; NO CLEAN UP AT THIS TIME; ALSO SOME DRUMS FOUND ON PROPERTY;

DEC Investigator Remarks:

refer to spill #: 0706476.

Map Identification Number 170 **310 N 7TH ST** **Spill Number: 0510912** **Close Date: 12/19/2005**
310 N 7TH ST BROOKLYN, NY TT−Id: 520A−0046−202

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2303 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: STAN GUREWICH − GUREWICH, STAN
Spiller Phone: (212) 722−4583
Notifier Type: Fire Department
Notifier Name: BENETATOS, ANYTONIO
Notifier Phone: (718) 476−6288
Caller Name: BENETATOS, ANYTONIO
Caller Agency: FDNY
Caller Phone: (718) 476−6288
DEC Investigator: JXZHAO
Contact for more spill info: CAPT CORRADO
Contact Person Phone: (718) 476−6288

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/17/2005		UNKNOWN	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	50.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

spill in basement from oil tank .

DEC Investigator Remarks:

Spill was contained − Zhao said case closed

Map Identification Number 171 **VACANT/ COMMERCIAL** **Spill Number: 0712729** **Close Date: 04/11/2008**
506 DRIGGS AVE BROOKLYN, NY TT−Id: 520A−0215−867

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2367 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: VACANT/ COMMERCIAL
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rvketani
Contact for more spill info: MICHAEL BORELLO
Contact Person Phone: (917) 217−7334

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/04/2008		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PESTICIDES	OTHER	0	GALLONS	0	GALLONS	SOIL

UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

semi−volatile MATERIAL AND PESTICIDES; SOIL SAMPLE RESULTS; CLEAN UP PENDING FURTHER INVESTIGATION;

DEC Investigator Remarks:

Consultant was hired to do a Phase 2 on this property for City "Little e" designation. They found small amounts of SVOC and Pesticides in shallow soil borings (2ft depth)

3/5/08 − Raphael Ketani. I looked up the site in the PBS, but it wasn't listed. The block and lot are 2312 and 22. According to ACRIS, the owners are Tadeusz and Krystina Zablocki, 75 Berry Street, Brooklyn, 11211−1917, and Michael Lichtman, 132 Greene Street, New York, 10013.
The environmental company is Environmental Building Solutions. The contact is Michael Borello (917) 217−7334.

I sent a CSL to the owners.

3/11/08 − Raphael Ketani. Today I received a letter from Joseph Horowitz, PE, 76−06 137 St., Flushing, 11367 ((718) 544−5105). The letter stated that a Phase II was currently taking place. Previously, a Phase I was performed for the site and submitted and approved by NYC DEP. NYC DEP is involved because the site has an "E" designation. Mr. and Mrs. Zablocki plan to construct a four story building. The building will require a foundation which is 10 feet deep. Excavation will be at least to a depth of 10 feet. Clearance sampling will take place and the remediation work will be incorporated into the construction work. Mr. Horowitz stated that DEC will get a copy of the Phase II ESA and the Phase III Work Plan. Mr. Horowitz stated that he, Mr. and Mrs. Zablocki, Michael Borello, Principal, Environmental Building Solutions, LLC, 295 Madison Avenue, Suite 1826, NY, 10017, and Innocent Taziva, NYC DEP ((718) 595−3585) should all be copied on any correspondence from DEC.

The NYC DEP reference number is 08DEPTECH159K/04DCP003K.

3/12/08 − Raphael Ketani. I left a message for Mr. Horowitz that the DEC would like the contaminated soil to be removed immediately and that we would like the end point soil sample analytical results.

Mr. Horowitz called me back. He said that the site is half an open yard and half a garage. He said he is waiting for the necessary permits to demolish the garage. Otherwise, they can't move forward. He said that the owners are as anxious as DEC to move foreward and get rid of the contaminated soil. Groundwater samples were taken and he is waiting to receive the analytical results.

3/18/08 − Raphael Ketani. Today I received the Phase I for the site from Mr. Horowitz. I reviewed the document. The entire document was lightly reproduced as it may have been printed from a copy of a copy of the Phase I document. The pages in appendices IV and V were too light to read. However, these were mostly maps and neighboring property descriptions, respectively. I had no other comments regarding the Phase I.

3/24/08 − Raphael Ketani. I received a call today from John Zablocki, one of the owners (646) 361−6839. He said that the engineer he had hired was billing him for "all kinds of things." He also wanted to know if he needed to contact DEC before doing the site

excavation for the contaminated soil. I told him he didn't have to wait for DEC's approval, but he would need to provide DEC with documentation that he had characterized the soil, and had sent it to the appropriate disposal site. I added that DEC would also need manifests for the loads of soil. I told him that soil borings would have to be taken to delineate the extent of the contamination, unless he already knows this. I told him that DEC had already received some information regarding the level of the contamination. He asked whether he can take the soil samples himself in order to save money. I told him he could and I explained the entire process of soil contamination delineation, sending the samples to a laboratory, submitting a soil sampling plan to be approved by DEC before the work starts, the analytical methods to be used and other details. In the end of our 45 minute conversation, I informed him that hiring an environmental professional, particularly a person with a PE might be the best way to go, even if it is expensive. I told him that this person will know what to do and the ins and outs of the process. I added that the bank may cut his funding if a PE doesn't oversee the job. I told him to be careful as regards what he does with his project. He said he plans on building a 6 family apartment building. I told him that he should be very careful that the work is done properly. He thanked me for all of the information and the conversation ended.

3/26/08 − Raphael Ketani. I received the (Draft) Subsurface Soil and Groundwater Investigation report dated 3/13/08 from Environmental Building Solutions, LLC. I reviewed the report.

I finished my review of the report. The soil analyticals showed that there were hits for SVOCS in the soil. These were the combustion series of analytes in the 0' to 2' sample and the 14' to 16' sample for B3. There were low level exceedences of TAGM for the 0' to 2' sample. Only a small number of hits were present in the other samples. The samples were almost entirely non−detect for SVOCs. Almost all of the samples were also non−detect for VOCs. Most of the hits were in B−2 in the 0' to 2' sample. The groundwater sample had only some low level SVOC exceedences of TAGM.

The boring location map shows that the drilling sites were widely spaced. I wrote a letter to Mr. Horowitz stating that there should be more borings.

3/27/08 − Raphael Ketani. I spoke to Mr. Horowitz (718) 544−5105 about the site. He said that the Zablockis received the DEC letter requesting 3 additional borings and soil samples. He said that he doesn't want to try to do the borings and get the analytical results for the soil samples as this will take a lot of time. He said that the City program they are involved with gives them a tax break for constructing on their property, but only if they have the foundation under construction before the end of June 2008. He said that what DEC is asking for will take too much time. He said that all of the soil will be dug up anyway and handled as hazardous material due to the pesticide hits. I told him that is fine, but DEC still doesn't know what the subsurface conditions are.

I told him that the site is 100 feet long and that 3 borings are just not enough to characterize the subsurface. I told him that he doesn't have to go down any further than 15 feet and that the analytical results just need to show the 12 most common VOCs and the 12 most common SVOCs. I told him that there are dozens of environmental and remediation companies and that someone has to have equipment available to do a few borings on short notice. He said that he will call me back later.

Mr. Horowitz called a half hour later and asked how many soil samples would be needed. I told him to send off the 3 dirtiest ones. He said nothing is really dirty. I told him that is fine. He asked that he be allowed to order testing via STARS for VOCs and SVOCs. I told him that will be fine. He said that he will talk to the Zablockis and get back to me.

Later, Mr. Horowitz sent me an e−mail memorializing the agreement between him, the Zablockis, and DEC. The agreement stated in the e−mail is: borings will take place March 31 or April 1, 3 borings opposite the existing locations will go down to 16', the

dirtiest sample will be collected, analyses will be done via STARS methods 8260 and 8270, results will be presented in an Addendum to the Phase II.

4/1/08 − Raphael Ketani. Mr. Horowitz sent me an e−mail containing a DRAFT letter for Mr. Taziva of NYC DEP. He asked me to comment on the parts of the letter mentioning correspondences between him and me. The statements regarding the correspondences appeared accurate. A made a copy of the DRAFT letter and put it in the paperfile. His DRAFT letter also mentions that the 3 additional borings were performed on April 1, 2008 and soil samples were sent to the laboratory for 24 hour turn around.

4/4/08 − Raphael Ketani. Today I received the final Subsurface Soil and Groundwater Investigtion report dated March 13, 2008 from Mr. Horowitz. The report was accompanied by a cover letter to Mr. Taziva of DEP dated 4/2/08. The cover letter states that a vapor barrier will be installed. The report did not include the soil analyses for the 3 additional borings that were requested by DEC. I had no comments regarding the letter, nor the report.

4/8/08 − Raphael Ketani. I received the analytical results for the 3 additional borings that were performed. The respective samples were B−6, B−7, and B−8. All of the results for VOCs and SVOCs were completely non−detect.

I spoke to Mr. Horowitz regarding the analytical results. I asked him why the numbering order goes 6, 7, and 8. He said that he was just following the numbering system from the previous reports. He said that no samples were missing. I asked him why the analytical sheets say that the sample type is "GRAB" when they are supposed to be the soil cores. He said that the samples are from the soil borings.

4/9/08 − Raphael Ketani. Yesterday, I received the Subsurface Soil Investigation Addendum dated 4/4/08 from Mr. Horowitz. I reviewed the document. The analytical results for borings B−6, B−7, and B−8 were the same as the ones I had previously reviewed on 4/8/08.

However, borings B−1 and B−3 were in different locations than in the 3/13/08 report. Also, the Addendum depicts boring B−4 at the location of B−2 and boring B−5 is at the location of B−3. The Addendum puts B−3 at the location of B−1 of the 3/13/08 report. Additionally, I never received the analyticals for B−4 and B−5. I tried to contact Mr. Horowitz to discuss this, but could only leave a message.

4/10/08 − Raphael Ketani. Mr. Borello of Environmental Building Solutions, LLC (646) 290−5925, exr 25 called me back. He said he was sorry for the confusion. He e−mailed me the three different site plans showing the different stages and placements of the series of borings and the well. He also e−mailed me the analytical results for 3 composite samples that were taken to characterize the soil. The analytical results were mostly non−detect with only a handle of low hits of SVOCs.

4/11/08 − Raphael Ketani. Mr. Horowitz sent me the entire analytical package from Environmental Testing Laboratories for the 3 composite samples, along with copies of the Chain of Custody Forms and the 3 different boring location site plans. I reviewed the package and had no comments.

Based upon the analytical results in the March 13, 2008 Phase II, the analytical results in the Addendum to the Phase II dated April 4, 2008, and the April 10, 2008 soil characterization testing results package, I am closing the spill case.

I sent an NFA letter to Mr. Horowitz, with a c−c to Innocent Taziva of DEP.

Map Identification Number 172 **19 NASSAU AVE./CORNER OF** **Spill Number: 8706359** **Close Date: 10/26/1987**
19 NASSAU AVE BROOKLYN, NY TT−Id: 520A−0049−163

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2392 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: 19 NASSAU AVE.
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: TEXACO/594 JAM. AVE.REALT
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: UNASSIGNED
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/26/1987	10/26/1987	OTHER	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SOIL

Caller Remarks:

COMPLAINT OF PERIODIC FIRES OCCURRING AT GASOLINE TANK IN AN ABANDONED GAS STATION.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "

Map Identification Number 173 **VAULT TM613** **Spill Number: 0412597** **Close Date: 06/20/2005**
HUMBOLDT ST. AND NASSAU A BROOKLYN, NY TT−Id: 520A−0044−667

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2420 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: HUMBOLDT ST / NASSAU AVE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN VESSEL	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	RON ELLIOTT	Notifier Phone:	(212) 580−8383
Caller Name:	RON ELLIOTT	Caller Agency:	CON ED	Caller Phone:	(212) 580−8383
DEC Investigator:	JHOCONNE	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/28/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

1/2 A QUART OF UNKNOWN OIL IS THE PRODUCT: LAB SAMPLE WAS TAKEN. CON ED#157399

DEC Investigator Remarks:

e2mis no. 157399:

2−28−05 09:57HRS P. GENOVESE 05276 (FOD) REPORTS, FOUND 1/2 QUART OF UNKNOWN OIL ON 100 GALLONS OF WATER. AT THIS TIME OIL APPEARS TO BE CONTAINED. OIL WAS DISCOVERED WHILE PHASE CHECKING FOR FEEDER 5B21. ENV STOP TAG 40699 WAS PLACED, AND CAN NOT DETERMINE OR VERIFY IF THERE IS ANY SEWER CONNECTIONS OR SUMPS BECAUSE OF THE AMOUNT OF OIL IN STRUCTURE. ONE LIQUID SAMPLE WAS TAKEN ON A E PRIORTY AND CLEANUP PENDING LAB SAMPLE. HISTORICAL RECORDS INDICATE 1 PPM, 8−25−2001. NETWORK WAS NOTIFIED TO PRESSURE TEST AND WILL SEND FIRST AVAILABLE CREW TO LOCATION.

Lab Sequence Number: 05−01716−001
Date Approved: 2/28/2005
PCB Analysis by EPA 608/8082

TOTAL PCB < 1.0 ppm

2/28/05 = 16:30 Hrs = Env Ops Supv C. Fernandez reports that due to excessive burnouts and no lights Networks was not able to send a crew to pressure test the unit. A tentative meet was set up for 7:00 AM with Networks.

3−4−05 20:15HRS K. DOWNEY (NET) REPORTS, PRESSURE TESTED UNIT AND PASSED.

UPDATE 05−MAR−2005 10:30 HRS.

ENVIR. OPER. MECH−A A.GLOWDOSKI EMP# 18711 REPORTS: ASTORIA TANKER REMOVED 1200 GALS OF LIQUID FROM STRUCTURE. ALL DEBRIS REMOVED WITH VACTOR. DBL. WASHED STRUCTURE WITH BIO−GEN 760. NO SUMP IN STRUCTURE . ENVIR. TAG# 40699 REMOVED

Map Identification Number 174 **CON EDISON MANHOLE 12371** **Spill Number: 0911638** **Close Date: 02/23/2010**
53 DIVISON PLACE BROOKLYN, NY TT−Id: 520A−0249−085

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 2435 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 53 DIVISION PL
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: UNK OIL ON TOP OF WATER
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: ConEd Unassigned
Contact for more spill info: ERT
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/01/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

10 gallons of unk oil found mixed with water in soil. Clean up pending at this time.

DEC Investigator Remarks:

02/23/10 − See eDocs for Con Ed report detailing cleanup and closure.

2/10/10−Vought−Off hours responder. Spill assigned to DEC Feroze as part of routine Con Ed portfolio review and possible closure.
Initial EMIS #220079 entered into UIS Cross Reference Field. Initial report downloaded into Edocs and deleted from Proxy.

Map Identification Number 175 **ONE QT OIL FOUND IN MANHOLE #2694** **Spill Number: 0700409** **Close Date: 05/23/2007**
DEBEVOISE & JACKSON STREETS BROOKLYN, NY TT−Id: 520A−0051−744

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2439 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: DEBEVOISE AVE / JACKSON ST
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN − CON EDISON
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: gdbreen
Contact for more spill info: ERT DESK' MIKE DAUGHTERY
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/12/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

one quart of unknown oil on 25gal. of water in a manhole. Clean up is in progess. ConEd#205348

DEC Investigator Remarks:

05/23/07 − See e−docs for Con Ed report detailing cleanup and closure.

205348.000

Map Identification Number 176 **SERVICE BOX 12690** **Spill Number: 0008346** **Close Date: 05/07/2001**
206 KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0051−773

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2448 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 206 KINGSLAND AV
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	MR DONATONE	Notifier Phone:	
Caller Name:	STEVEN ROMERO	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	KMFOLEY	Contact for more spill info:	STEVEN ROMERO	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/17/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 QT OF PRODUCT ON 200 GALS WATER SAMPLE TAKEN CLEAN UP PENDING RESULTS − CON ED 133965

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"
DEC INSPECTOR'S NOTES

CON ED E2MIS REPORT 10−17−00

1 qt. of unknown oil on 200gals. of water in SB 12690. It appears to be contained, no sewers or waterways affected.

10−18−00

Lab results returned <1ppm Lab#00−09996

1−14−01, 1105hrs.

Cleanup complete, no sump in structure, Env. tag #26528 removed.

1215hrs.

Cleanup completed by double washing structure with slix. Liquids were removed using coagulant and diapers. No leaking company equipment. Incident closed.

Map Identification Number 177 **MANHOLE 4935** **Spill Number: 9910034** **Close Date: 03/29/2002**

MANHOLE 4935 , NY TT−Id: 520A−0051−728
UNION AVE/DEVOE STREET

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2463 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: UNION AVE/DEVOE STREET
Revised zip code: 11211

Source of Spill: UNKNOWN
Spiller: UNKNOWN − UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name: DON HERBST
Notifier Phone: (212) 580−6763
Caller Name: RICHARD ROACHE
Caller Agency: CON EDISON
Caller Phone: (212) 580−6766
DEC Investigator: COMENALE
Contact for more spill info: CALLER
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/18/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

caller reporting 1 pint of material on 30 gal of water clean up pending lab results coned#129034 no callback necessary

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 178 **TRAFFIC ACCIDENT** **Spill Number: 0702380** **Close Date: 05/29/2007**

MEEKER AVE/METROPOLITAN A BROOKLYN, NY TT−Id: 520A−0050−811

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 2471 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / METROPOLITAN AVE
Revised zip code: 11211

Source of Spill: PASSENGER VEHICLE
Spiller: BRIAN SCOTT − BRIAN SCOTT
Spiller Phone: (917) 880−7354
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: jbvought
Contact for more spill info: FF SANACORE
Contact Person Phone: (347) 203−6886

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/28/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	10.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

CALLER REPORTS SPILL DUE TO VEH RUNNING OVER OBJECT ON THE BROOKLYN QUEENS EXPRESSWAY PUNCTURING THE GAS TANK. SPILL HAS BEEN CONTAINED AND IN THE PROCESS OF BEING CLEANED UP. SPILL DID INFILTRATE THE STORM SEWER SYSTEM.

DEC Investigator Remarks:

05/29/07−Vought−Spill cleaned by FDNY Hazmat using absorbent material and tank was also pumped by Hazmat and gasoline was disposed of by tow truck company. DEP notified with respect to impact to sewer. Spill closed by Vought due to no impact to soil and/or groundwater.

Map Identification Number 179 **SUBWAY TRACKS−NYCT** **Spill Number: 9800896** **Close Date: 02/15/2008**
257 NORTH 6TH ST BROOKLYN, NY TT−Id: 520A−0046−973

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2471 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: JOHN RILEY − NYC BOARD OF EDUCATION
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: NYC TRANSIT AUTHORITY
Notifier Phone: (718) 927−7373
Caller Name: RONALD LOCHAN
Caller Agency: NYC DEP
Caller Phone: (718) 595−4724
DEC Investigator: MCTIBBE
Contact for more spill info: RONALD LOCHAN
Contact Person Phone: (718) 595−4724

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/01/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

UNDERGROUND TANK FROM BOARD OF EDUCATION BELIEVED TO HAVE LEAKED

IN AREA OF SUBWAY. BILL MATHESON SUPERINTENDANT HAS BEEN CONTACTED ALSO.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
10/3/03 − AUSTIN − TRANS. FROM HALE TO TIBBE − END

02−15−08: According an e−mail from NYCT Liz Deluca, the area was inspected and no product was found.

Map Identification Number 180 **CAMPBELL RESIDENCE** **Spill Number: 9702730** **Close Date: 08/15/2005**
120 BEDFORD AVE BROOKLYN, NY TT−Id: 520A−0045−068

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2473 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 120 BEDFORD AV
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	KEITH CAMPBELL	Notifier Phone:	(718) 486−8446
Caller Name:	KEITH CAMPBELL	Caller Agency:	RESIDENT	Caller Phone:	(718) 486−8446
DEC Investigator:	JLDYBER	Contact for more spill info:	KEITH CAMPBELL	Contact Person Phone:	(718) 486−8446

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/03/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER CAN SMELL AND NOTICED THAT THE SOIL ON HIS PROPERTY IS A VERY DARK COLOR − CALLER DOES LIVE NEXT TO AN IDUSTRIAL COMPLEX

DEC Investigator Remarks:

8/15/05, Dyber: No call back from Keith Campbell. Administrative closure.

8/1/05, Dyber, Left another message for Keith Campbell.

7/18/05, Dyber: Left message for Keith Campbell to see if complaint was taken care of.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "M TIBBE"
F&N Mechanical, 139 North 10th Street.

Frank Dross, manager 718−384−5751. New Owner Sanjar Raz. Mr. Poliacoff former owner.

Map Identification Number 181 **LOT NEXT TO 583 DRIDGES** **Spill Number: 9904275** **Close Date: 02/14/2003**
CRN DRIGGES AVE & 8TH BROOKLYN, NY TT−Id: 520A−0050−181

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 2481 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: CRN DRIGGES AVE / 8TH
Revised zip code: 11211

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:		Notifier Phone:	
Caller Name:	MARY SAGAN	Caller Agency:	CITIZEN	Caller Phone:	(718) 388−1973
DEC Investigator:	SMSANGES	Contact for more spill info:	CALLER	Contact Person Phone:	(718) 388−1973

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/11/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller reports tanks leaking on site next to her residence unknown fluid believes site used to be a old autobody shop.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
SANGESLAND MADE A SITE INSPECTION ON JULY 12, 1999. THE SITE WAS AN OPEN EXCAVATION HOLE, NO EMPLOYEES ON SITE. SS WALKED DOWN TO INSPECT NEW FOUNDATION WALLS. SEVERAL OLD SMALL METAL TANKS (LIKE WELL WATER EQUIPMENT) WERE FOUND IN A PILE OF TWISTED METAL. AN AREA APPROX. 15 FEET LONG AND 5 FEET WIDE ALONG THE INSIDE OF THE WEST (DRIGGS ST) FOUNDATION WALL SHOWED AND SMELLED LIKE GASOLINE.

PROPERTY OWNER: MENDEL GOODMAN − 718−384−2124 WAS GIVEN WRITTEN INSTRUCTIONS TO HAVE THE CONTAMINATED SOIL REMOVED AND TO OBTAIN A MANIFEST SHEET FOR THE DISPOSED SOIL.

PHONE MESSAGE ON 7/15 FROM MR. GOODMAN SAID THE WORK WOULD BE DONE BY 7/21.

ADMINISTRATIVE CLOSURE − AUSTIN

Map Identification Number 182 **MANHATTAN AVE & POWERS ST** **Spill Number: 9403707** **Close Date: 03/06/1995**

MANHATTAN AVE / POWERS ST BROOKLYN, NY TT−Id: 520A−0039−391

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2496 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Local Agency
Caller Name: ROB MILLER
DEC Investigator: MCTIBBE

Spiller: UNKNOWN
Notifier Name:
Caller Agency: CLEAN HARBORS
Contact for more spill info:

Spiller Phone:
Notifier Phone:
Caller Phone: (908) 248−1997
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/16/1994		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SOIL

Caller Remarks:

WILL CLEAN UP THIS P.M.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
10/10/95: This is additional information about material spilled from the translation of the old spill file: SLUDGE MUD. CLEANED BY NYNEX.

Map Identification Number 183 **MANHOLE 63577** **Spill Number: 0406156** **Close Date: 11/12/2004**
NASSAU AVE/RUSSELL ST BROOKLYN, NY TT−Id: 520A−0038−191

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2517 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Federal Government
Caller Name: MARK SCHLAGEL
DEC Investigator: SKARAKHA
Spiller: UNKNOWN
Notifier Name: MR ANDERSON
Caller Agency: CONED
Contact for more spill info: ERT DESK
Spiller Phone:
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−8383
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/04/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

Contained to manhole. No to 5 questions. Default in hole. Cleanup pending lab results. Ref#155218

DEC Investigator Remarks:

e2mis no 155218

M.BUX REPORTS FINDING APPROX 1 GAL OF UNKNOWN OIL ON APPROX 15 GAL OF WATER. THE SOURCE OF THE SPILL MAY POSSIBLY BE FROM A LEAKING OIL FITTING ON A PRIMARY JOINT. ONE LIQUID SAMPLE TAKEN. CLEAN UP PENDING SAFE ACCESS AND LAB RESULTS.

LAB SEQ# 04−07055−001 91 PPM.

UPDATE 9/4/04 11:40 HRS P. GALLO U/G SUPV REPORTS NO D−FAULT ON THE JOINT.

UPDATE 9−5−04 11:30HRS
T. FERNANDEZ (ENV OPS) REPORTS, REMOVED ONE DRUM OF DEBRIS AND FOUND CEMENTED SUMP. STRUCTURE IS NOW SOAKING IN BIO GEN 760. ALSO FOUND UNDER 25' OIL SOAKED ARC PROOFING ON FEEDER.

9/04/04 = 15:00 Hrs = Env Ops Supv C. FERNANDEZ reports that after removing 2 drums of debris Underground removed oil soaked arc proofing. structure was double washed with BioGen 760 and Slix. An Astoria tanker removed a total of 325 gallons of liquid. Tag 29024 was removed and an Astoria Transportation vehicle will pick up the drums. Job is complete.

Map Identification Number 184 **MANHOLE #64589** **Spill Number: 0200410** **Close Date: 10/16/2002**
RUSSELL & NASSAU ST BROOKLYN, NY TT−Id: 520A−0044−665

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2517 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: RUSSELL ST / NASSAU AV
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	MR DONATONE	Notifier Phone:	(212) 580−6764
Caller Name:	SEAN MCKEEVER	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	SEAN MCKEEVER	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/11/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 PINT UNKNOWN OIL ON 20 GALLONS OF WATER − CLEAN UP PENDING REMOVAL OF VEHICLE PARKED OVER MANHOLE − CON ED #142211 − TEST RESULTS 4 PPM

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
e2mis no. 142−211:

4−11−02 09:55HRS M. LOZADA (UG) REPORTS, FOUND ONE PINT OF UNKNOWN OIL ON 20 GALLONS OF WATER IN MH64589. AT THIS TIME OIL

APPEARS TO BE CONTAINED AND NO SEWERS OR WATERWAYS WERE AFFECTED. NO SEWER CONNECTION OR SUMP NOTICED. ONE LIQUID SAMPLE WAS TAKEN.

4/11/02=2220hrs LAB RESULTS RETURNED 4PPM−LSN03026

UPDATE: 4/12/02 − 2040

J. MIDDLETON − ENV. OPS., REPORTS 4 PPM CLEANUP COMPLETED BY DOUBLE WASHING STRUCTURE WITH SLIX AND USING COAGULANTS. WASTE PRODUCT REMOVED WITH VACTOR. SUMP FOUND CEMENTED. TAG #26666 REMOVED.

Update − 4/13/02 − No leaking company equipment, incident is closed.

Map Identification Number 185 **GAS STATION** **Spill Number: 9909344** **Close Date: 11/02/1999**
445 METROPOLITAN AVE BROOKLYN, NY TT−Id: 520A−0051−716

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2523 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: Citizen
Caller Name: FRANK CRAWFORD
DEC Investigator: JMROMMEL

Spiller: GAS STATION
Notifier Name: FRANK CRAWFORD
Caller Agency: CITIZEN
Contact for more spill info: UNK

Spiller Phone:
Notifier Phone: (718) 966−6109
Caller Phone: (718) 966−6109
Contact Person Phone: (000) 000−0000

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/01/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES TANKS ARE BEING PULLED AND STRONG ODOR OF GASOLINE IS

COMING FROM THAT AREA−MATERIAL IS BEING SPILLED FROM TANK REMOVAL ALSO.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
11/2/99

Closed and cross−referenced to spill #9909193.

Citizen’s number is incorrect.

Map Identification Number 186 **680 MANHATTAN AVE** **Spill Number: 9415336** **Close Date: 03/17/2005**
680 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0041−567

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2525 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: NYCFD & HAZMAT
Notifier Phone: (917) 882−5464
Caller Name: EUGENIA RENARD
Caller Agency: NYCDEP
Caller Phone: (718) 595−6700
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/22/1995		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

Unknown petroleum leaking from 300 gal tank into subway

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
1/26/04 − Austin − due to impact to subway, transferred to to Tibbe for check with NYCTA on status − may be related to spill #9813210 − end

03/17/05: According to a NYCT e−mail dated 3/14/05, NYCT inspected the site on 3/9/05 and found the area to be clean with no signs of a spill.

Map Identification Number 187 **433 UNION AVE** **Spill Number: 9800933** **Close Date: 05/11/1998**
433 UNION AVE BROOKLYN, NY TT−Id: 520A−0046−728

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2527 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: CUMBERLAND FARMS
Spiller Phone:
Notifier Type: DEC
Notifier Name: KEVIN HALE
Notifier Phone: (718) 776−6080
Caller Name: KEVIN HALE
Caller Agency: NYS DEC
Caller Phone: (718) 776−6080
DEC Investigator: KGHALE
Contact for more spill info: KEVIN HALE
Contact Person Phone: (718) 776−6080

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/21/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

contaminated soil noted during excavation − excavation will

continue

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HALE"

Map Identification Number 188 **MANHOLE #56358** **Spill Number: 9812352** **Close Date: 10/17/2002**
DIVISION PL/MORGAN AVE BROOKLYN, NY TT−Id: 520A−0039−581

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2570 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name: STEVEN CRIBBIN
DEC Investigator: CAENGELH

Spiller: STEVEN CRIBBIN − MANHOLE #56358
Notifier Name: STEVEN CRIBBIN
Caller Agency: CON EDISON
Contact for more spill info: STEVEN CRIBBIN

Spiller Phone: (212) 580−6763
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/06/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SAMPLE WAS TAKEN − SPILL HAS BEEN CONTAINED AND PENDING LAB RESULTS WILL BE CLEANED UP ACCORDINGLY. CON ED #122262

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
e2mis no. 122−262:

V.FAILLA # 14567 UG SPLICER SPLICING SECONDARY REPORTS FINDING IN MH56358 AN UNDIAPERABLE SHEEN OF UNKNOWN FLUID ON 1300 GALLONS OF WATER. CONTAINED TO STRUCTURE NO SEWERS OR WATERWAYS AFFECTED, LIQUID SAMPLE TAKEN WITH A 4−6 HOUR TURNAROUND & STOP TAG # 18848 PLACED. CLEANUP PENDING TEST RESULTS.

LAB RESULT RECEIVED 1/6/99 − 0901. 99−00132. <1.0 PPM.

UPDATE 1/29/99 02:30 ROSENKING FLUSH DEPT. REPORTED OIL CLEAN UP COMPLETED WITH SLIX IN MH56358 AND OIL TAG #18848 WAS REMOVED. INCIDENT IS CLOSED.

Map Identification Number 189 **MH #16092** **Spill Number: 9809860** **Close Date: 11/06/2002**
MORGAN AVE & DIVISION PL BROOKLYN, NY TT−Id: 520A−0039−545

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2570 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: MORGAN AVE / DIVISION PL
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CON ED
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: MR ZAMBRO
Notifier Phone: (212) 580−6764
Caller Name: STEPHEN CRIBBIN
Caller Agency: CON ED
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/05/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALL REPORTING THAT 4 DROPS OF UNKNOWN OIL FOUND IN MANHOLE. CON ED TO CLEAN.

CON ED #121067.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
E2MIS NOTES 121067

H.TATE #74345 OS REPORTS IN MH16092 S.W.C. MORGAN AVE & DIVISION PL HE FOUND 4 DROPS UNKNOWN OIL (WAS WORKING AND OPEN

MAIN JOB) ON 100 GAL OF WATER. HE DID NOT SEE ANY OIL FILL EQUIPMENT. HOLE CONTAINED AND NO SEWERS OR WATERWAYS

AFFECTED. A LIQUID SAMPLE WAS TAKEN (4− 6 HRS PRIORITY) AND E.S.TAG #19417 WAS PLACED. WAITING SAMPLE RESULTS FOR CLEANUP

PROCEDURES.

UPDATE 06−NOV−1998 13:45 CHEM LAB RESULTS RECEIVED SEQUENCE # 98−12215 <1PPM

UPDATE 11/9/98 ==========

W.TUDY OF FLUSH REPORTS CLEANUP COMPLETE WITH SLIX AT 2200HRS. E.S.TAG#19417 REMOVED. D.HERBST 27461

Map Identification Number 190 **Spill Number: 0013237** **Close Date: 06/23/2003**

IFO 100 MAGUNIS BLVD BROOKLYN, NY TT−Id: 520A−0044−924

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2572 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: IFO 100 MC GUINNESS BLVD
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	STEELMAN TRANSPORTATION	Spiller Phone:	
Notifier Type:	Fire Department	Notifier Name:		Notifier Phone:	
Caller Name:	JOHN LAROCCHIA	Caller Agency:	NYC FIRE HAZMAT	Caller Phone:	(718) 476−6288
DEC Investigator:	TJDEMEO	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/19/2001		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	25.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

truck was stuck in road and ran over divider to get around. ruptured tank. spill stopped and cleanup to be completed.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO"
6/23/03 TJD

Street spill. Sanatation sanded roadway. No further action.

Map Identification Number 191 **535 MORGAN AVE** **Spill Number: 9204995** **Close Date: 09/03/1992**
535 MORGAN AVE BROOKLYN, NY TT−Id: 520A−0049−411

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 2573 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: BELMONT PRODUCTS INC
Spiller Phone: (718) 782−3554
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: C GJERSVIK
Caller Agency: CONTINENTAL BAKING CO
Caller Phone: (314) 982−4894
DEC Investigator: MITCHELL
Contact for more spill info:
Contact Person Phone:

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/30/1992	09/03/1992	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

Caller Remarks:

STAINED SOIL DISCOVERED DURING INSTALLATION OF UST OIL WATER SEPARATOR.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 192 **RESIDENCE** **Spill Number: 0100016** **Close Date: 04/02/2001**
50 BUSHWICK AVE BROOKLYN, NY TT−Id: 520A−0039−997

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2598 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	CONTRACTOR		Spiller Phone: (000) 000−0000
Notifier Type:	Fire Department	Notifier Name:	BATT CHIEF 35		Notifier Phone: (718) 965−8300
Caller Name:	DISPATHCER 453	Caller Agency:	NYC FIRE DEPT BROOKLYN		Caller Phone: (718) 965−8300
DEC Investigator:	MXTIPPLE	Contact for more spill info:	NONE		Contact Person Phone: (000) 000−0000

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/02/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CONTRACTOR ON SCENE WAS DUMPING OIL DOWN DRAIN.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
Close and Cross reference to 0100018. FD reported twice.

Map Identification Number 193 **Spill Number: 0303594** **Close Date: 07/07/2003**

BEDFORD AVE/N 9TH ST BROOKLYN, NY TT−Id: 520A−0037−349

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2619 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN		Spiller Phone:
Notifier Type:	Citizen	Notifier Name:			Notifier Phone:
Caller Name:	CHRIS KUREK	Caller Agency:			Caller Phone: (718) 388−9647
DEC Investigator:	JXZHAO	Contact for more spill info:	CHRIS KUREK		Contact Person Phone: (718) 388−9647

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/07/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
MOTOR OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

spill of product on roadway − unk source or cause − no clean up

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHAO"
7/7/2003 1:50AM: Since NYC Sanitation Hotline dose not response at midnight, Zhao contact local Fire Department for assistant. FD responded.

Map Identification Number 194 **125 NORTH 10TH ST** **Spill Number: 9902614** **Close Date: 10/18/2005**

125 NORTH 10TH ST BROOKLYN, NY TT−Id: 520A−0045−069

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2621 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name: PAT MCDERMOTT
DEC Investigator: GWBURKE

Spiller: STEVE
Notifier Name: PAT MCDERMOTT
Caller Agency: GASOLINE INSTALLATIONS
Contact for more spill info: STEVE

Spiller Phone: (917) 763−3043
Notifier Phone: (516) 371−2743
Caller Phone: (516) 371−2743
Contact Person Phone: (917) 763−3043

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
06/07/1999		UNKNOWN	2−604226	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

during a tank install an old tank was encounterd and there is a

slight odor of fuel oil in soil

DEC Investigator Remarks:

10/18/05 − Close − 2004 PBS states tanks removed and closed. GB

Map Identification Number 195 **GAS STATION** **Spill Number: 9803138** **Close Date: 06/17/1998**

417 UNION AVE BROOKLYN, NY TT−Id: 520A−0046−729

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2633 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Notifier Type: DEC
Caller Name: AECO PARRIS
DEC Investigator: O'DOWD

Spiller: GAS STATION
Notifier Name: JERRY ESPOSITO
Caller Agency: DEC
Contact for more spill info:

Spiller Phone:
Notifier Phone: (718) 389−0009
Caller Phone: (718) 482−4885
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/10/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

COMPLAINTANT DESCRIBED GASOLINE VAPORS IN AIR − CURRENTLY UNDER

SOME TYPE OF CONSTRUCTION − EXCAVATION OPEN

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

6/15/98 2:10 PM WENT TO GULF S/S LOCATED AT 447 UNION AVE. MET WITH BERNIE/GULF AND PETE/PETROL. TECH. UPGRADING EXISTING 3X3K FOR 1998 DEADLINES. SOIL CLEAN SAND AND NO SHEENING ON WATER IN EXCAVATION. EXCAVATION DUG DOWN TO TOP OF USTS. BERNIE SAID TANKS WERE PUMPED OUT OVER 30 DAYS AGO AND SITE HAS TRANSFERRED OWNERSHIP RECENTLY. HE SAID BORINGS WERE DONE AND SOIL DOWN TO 16 FT BG WAS DUG OUT AND HAULED OFF−SITE. NO GASOLINE VAPOR SMELL AND THEY DIDN'T RECEIVE ANY COMPLAINTS.
2:30 PM WENT OT 417 UNION AVENUE. MET WITH ANDREAS PFANNER. ITS A FINE WOODWORKING PLACE WHERE THEY DO FINISHING OF CABINETS AND LAQUERING OF WOODWORK. ONE EXHAUST, NO GASOLINE VAPORS DETECTED. HE DIDN'T HEAR OF ANY COMPLAINTS.

Map Identification Number 196 **S & S PRINTING** **Spill Number: 0205855** **Close Date: 09/02/2010**
488 MORGAN AVE BROOKLYN, NY TT−Id: 520A−0040−233

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2639 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller:
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: DAWN RUSSINI
Caller Agency: TYREE BROTHERS INV SVC
Caller Phone: (631) 249−3150 ext. 2
DEC Investigator: SFRAHMAN
Contact for more spill info: FELIX SIKAR
Contact Person Phone: (718) 388−8990

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/05/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER WAS HIRED BY POTENTIAL BUYER OF THE ABOVE LOCATION − WHILE

DOING BORE SAMPLES THERE WAS CONTAMINATED SOILS FOUND − UNK WHAT

CAUSED THE SPILL

DEC Investigator Remarks:

Gupta Kuldeep on 11/3/05−called Tyree Brothers and found 1−631−249−3150 Ext 240
Tel Number is not in service.Dawn Russini is no more with Tyree company.
Felix Sikar with S&S, Tel Number (718)−388−8990, updated Building is not
sold to Dan Randazzo.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"
9/5/2002 − Sangesland spoke with Dawn Russini (631−249−3150 x240) at Tyree (She will be leaving Tyree this week − Rick Caputo x 241 will take over the case).

Tyree was hired by a potential purchaser to do a Phase I & Phase II on this site.

Seller: Felix Sikar of S&S Printing 718−388−8900

Buyer: Dan Randazzo of St. Christopher Ottilie 516−671−1253 x122

Site is a 5 story industrial warehouse which is being sold and converted to another use. (??? offices? halfway house? shelter?)

Property has a history of use as yarn dye, tannary and printing.

Phase 2 report shows borings behind the building with elevated levels of SVOC's, metals and cyanide.

Tyree is proposing some excavation work and additional testing. Unknown if the present owner will go forward with this work.

Austin − 9/30/09 − Spill project assignment transferred from Albany staff (Kx Gupta) to Rahman, for further review and action. − end

07/13/10 Performed site visit. No oil tank is being used on the premises.No report available to the owner. I contacted Tyree Environmental and rec'd an email that says they don't have any records of the phase II investigation. Due to unavailability of any investigation report, complaint can't be justified. Moreover, next course of action can't be determined without information about the level of contamination, if any exist.Spill report does n't indicate presence of significant petroleum related contamination.(sr)

CLOSED STATUS HAZARDOUS SPILLS − MISC. SPILL CAUSES − EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM AND STORMS − WITHIN 1/2 MILE SEARCH RADIUS.
All spills mapped and profiled within 1/8 mile. Between 1/8 mile and 1/2 mile search radius, spills reported to be greater than 100 units and spills reported in the NYSDEC Fall 1998 MTBE Survey are mapped and profiled. Spills reported to be less than 100 units are listed in a table at the end of this section.

Please Note: * − Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 197 **BROOKLYN QUEENS EXPRESS** **Spill Number: 0608057** **Close Date: 10/17/2006**
GRAHAM AVE EAST BOUND DIR BROOKLYN, NY TT−Id: 520A−0049−638

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 466 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: GRAHAM AVE / BROOKLYN QUEENS EXWY
Revised zip code: 11222

Source of Spill: COMMERCIAL VEHICLE
Spiller: MOBILE EXXON PLACARD #120
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: HRPATEL
Contact for more spill info: TROY SCOTT
Contact Person Phone: (917) 468−2551

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/15/2006		TRAFFIC ACCIDENT	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

SPILL DUE TO RUPTURE OF SADDLE TANKS ON TRACTOR TRAILER AS A RESULT OF AA ON OVERPASS. CLEANUP IS UNDERWAY.

DEC Investigator Remarks:

10/17/06−Hiralkuamr Patel. received during off hour duty on 10/15/06. visited site. met Mr. Scott from NYC Emergency Mgmt.
Exxon−Mobil truck was involved in accident. trailer was empty and saddle tanks of truck were not leaking and were in good

condition. truck cabin was hanging from Route 278 West above Graham Ave at Exit 33. and motor oil spilled on graham ave from broken engine. fire department had put speedy dry and as per Mr. Scott, sanitation were going to remove that sand from roadway. little oil ran to sewer. Dennis Huacan (PH. 718−595−4722) from DEP was on scene (DEP case#: 1472232). no soil impacted.

Map Identification Number 198 **GELFAND RES.** **Spill Number: 9608634** **Close Date: 10/10/1996**
398 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0041−884

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 468 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: TANK TRUCK
Notifier Type: Responsible Party
Caller Name: ANNETTE ODONNEL
DEC Investigator: SMMARTIN

Spiller: ANNETTE ODONNEL − WEATHER FUEL OIL CO
Notifier Name: TAFT SMITH (DRIVER)
Caller Agency: WEATHER FUEL OIL CO
Contact for more spill info:

Spiller Phone: (718) 647−1400
Notifier Phone: (718) 647−1400
Caller Phone: (718) 647−1400
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/10/1996		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

hose line broke on delivery truck spill to pavement and some to side of house clean up crew is enroute

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"

Map Identification Number 199 **INTERMASTER** **Spill Number: 0711236** **Close Date: 03/27/2008**
387 MANHATTAN AVE BROOKLYN, NY TT−Id: 520A−0212−616

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 491 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: JEFF BOHLEN − INTERMASTER
Spiller Phone: (631) 924−3001
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RMPIPER
Contact for more spill info: JEFF BOHLEN
Contact Person Phone: (631) 924−3001

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/24/2008		EQUIPMENT FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL, GROUNDWATER

Caller Remarks:

phase two and found contaminated soil

DEC Investigator Remarks:

1/24/08 − Raphael Ketani. I spoke with Jeff Bohlen of EnviroTract (631) 924−3001. He said he represented the potential buyer, Krzysztof Kielan, Millenium Development and Construction, LLC, 57 Ballard Street, Valley Stream, NY, 11580. He said that the site is still an active cabinet making business and is owned by Henryk Zawojek.

Mr. Bohlen went on to say that the site is a 1 story commercial building. There is a gas tank (UST) in the building and a dispenser and remote fill outside. All three are out of service. Three borings were performed, one at each part of the fuel system. There are low hits of BTEX in the soil which are below TAGM. Two wells were installed. One well had 0.73 ppb benzene and one well had 1.3 ppb benzene. Total xylenes were 6.80 ppb.

The site has an "E" designation, but no one has been assigned to the case. The contact is Dan Cole, Deputy Director, NYC DEP, 59−17 Junction Blvd., 11 Floor, Flushing, NY, 11373. His phone number is (718) 595−4536.

A CSL was sent to Mr. Zawojek with a "c−c" to Mr. Cole.

3/5/08− DEC Piper − I met Envirotrac and sub contractor AARCO, onsite today. They were uncovering at least 1 550 ust that contained gasoline for motor fueling. They will remove tanks soil and piping and collect endpoints to be submitted in closure report.

3/27/08− DEC Piper recieved and reviewed closure report. Approx 19 tons of soil were removed. Endpoints were below tagm. This spill is closed. See e−docs if warranted.

Map Identification Number 200 **375 MANHATTAN AVENUE** **Spill Number: 9400072** **Close Date: 04/04/1994**

375 MANHATTAN AVENUE BROOKLYN, NY TT−Id: 520A−0041−422

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 620 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: SAME
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: FRANK SACINO
Caller Agency: PETRO OIL
Caller Phone: (718) 545−4500
DEC Investigator: CAMMISA
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/03/1994	04/04/1994	EQUIPMENT FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

LINE LEAKING − SPILL CONTAINED ON BASEMENT FL. APPLIED SPEEDI DRI − CLEANED VP − REPLACED NOZZLE LINE.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 201 **MCGUINESS BLVD & BQE** **Spill Number: 0007090** **Close Date: 10/05/2000**
MCGUINESS BLVD & BQE BROOKLYN, NY TT−Id: 520A−0051−757

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 872 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: MCGUINESS BLVD / BQE
Revised zip code: 11222

Source of Spill: TANK TRUCK
Spiller: MYSTIC TRANSPORTATION
Spiller Phone: (718) 932−9075
Notifier Type: Other
Notifier Name: MYSTIC TRANSPORTATION
Notifier Phone: (718) 932−9075
Caller Name: GIL ROWLAND
Caller Agency: ACTION ENVIRONMENTAL
Caller Phone: (704) 394−6913
DEC Investigator: SIGONA
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/15/2000		EQUIPMENT FAILURE	YES	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

DRIVESHAFT SEPARATED AND WENT INTO FUEL TANK − CONTAINED − MILLER ENVIRONMENTAL RESPONDING

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

On September 15, 2000, DEC Sigona responded to a 100 gallon diesel spill from a tanker truck leak on the Brooklyn Queens Expressway near McGuiness Blvd., in Greenpoint. The spillwas caused by a broken drive shaft which caused a leak from the piping system for the tanker truck operated by Mystic Transportation. Fortunately there were no injuries to the driver or other vehicles on the road. The diesel spilled onto the roadway and drained to storm drains which poured down under the BQE. The product was contained by FDNY, and Mystic hired MEG to perform the cleanup. NYCDEP (Andrew Kelly) issued a order to Mystic to complete the cleanup of the catch basin.

Map Identification Number 202 **43 HERBERT STREET,BKLYN/R** **Spill Number: 8606018** **Close Date: 12/23/1986**
43 HERBERT ST BROOKLYN, NY TT−Id: 520A−0051−747

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 970 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 43 HERBERT ST.
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNK
Spiller Phone:
Notifier Type: Police Department
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: UNASSIGNED
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/23/1986	12/23/1986	ABANDONED DRUM	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

RADIO−ACTIVE WASTE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "
10/10/95: This is additional information about material spilled from the translation of the old spill file: RADIO−ACTIVE WASTE.

Map Identification Number 203 **Spill Number: 9811933** **Close Date: 12/22/1998**
526 UNION AVE BROOKLYN, NY TT−Id: 520A−0051−746

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1586 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 526 UNION AV
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: ALEXANNDER PIAZZI
Notifier Phone: (212) 384−1000
Caller Name: OLUREMI FATIMILEHIN
Caller Agency: DEP
Caller Phone: (718) 595−4799
DEC Investigator: TOMASELLO
Contact for more spill info: OLURMI FATIMILEHIN
Contact Person Phone: (718) 595−4799

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/18/1998		ABANDONED DRUM	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

2 ABANDONED DRUMS IN FRONT OF ABOVE ADDRESS − DO NOT APPEAR TO BE LEAKING

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 204 **APARTMENT BLDG** **Spill Number: 8805035** **Close Date: 09/13/1988**
677 METROPOLITAN AV NYC, NY TT−Id: 520A−0047−064

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1609 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: DON PAUL FUEL OIL CO
Spiller Phone: (718) 383−1400
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name: JOHN WITHERNOW
Caller Agency: NYCDEP
Caller Phone: (212) 669−8923
DEC Investigator: JCGRATHW
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/09/1988	09/13/1988	TANK OVERFILL	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	300.00	GALLONS	200.00	GALLONS	SOIL

Caller Remarks:

NYFD PUMPED 200 GALS INTO DRUMS, COVERED REMAINING PRODUCT. NYFD HAS NOTIFIED SPILLER TO FINISH CLEAN−UP.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "GRATHWOL"

Map Identification Number 205 **TM 640** **Spill Number: 0107722** **Close Date: 12/28/2001**

HERBERT ST & KINGSLAND AVE BROOKLYN, NY TT−Id: 520A−0037−294

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1822 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: HERBERT ST / KINGSLAND AVE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: CALLER − CON ED
Spiller Phone: (212) 580−6763
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: MARK SCHLAGEL
Caller Agency: CON ED
Caller Phone: (212) 580−6765
DEC Investigator: KMFOLEY
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/29/2001		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER REPORTS 100 GALLON SPILL FROM FAULTY TRANSFORMER. CON ED #140005. CLEANUP PENDING TANKER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"

E2MIS NOTES:

10/29 10:30 HOURS: APPROX. 100 GALLONS OF TRANSFORMER OIL ON 3 FEET OF OIL SOAKED DIRT IN TM−640. RECORDS SHOW 120 PPM.

PRESSURE TESTED AND FAILED.

Update 10/29/01, 23:20hrs:

Test results showed 168ppm PCB. The crew noticed a 5" drain in the corner of the manhole and possibly some product got into the drain. There was 3' of dirt over the hole.

10/30/01 1340 hours: Unit was removed.

1930 hrs: clean up completed, double washed structure.

Map Identification Number 206 **522 METROPOLITAN AVE** **Spill Number: 9515443** **Close Date: 02/24/2003**

522 METROPOLITAN AVE BROOKLYN, NY TT−Id: 520A−0046−730

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2199 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	JACOB − TERMINAL OIL COMPANY	Spiller Phone:	(718) 369−2825
Notifier Type:	Local Agency	Notifier Name:	SHANTEL VINSON	Notifier Phone:	(718) 595−6777
Caller Name:	SHANTEL VINSON	Caller Agency:	DEP	Caller Phone:	(718) 595−6777
DEC Investigator:	TOMASELLO	Contact for more spill info:	MS CASTANO	Contact Person Phone:	(718) 782−4799

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/29/1996		TANK OVERFILL	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	300.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TANK OVERFILL INTO SOIL − ALTERNATIVE PHONE # 718−330−3236 MR MUNZO

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 207 **810 METROPOLITAN AV/MERIT** **Spill Number: 8807632** **Close Date: 12/18/1988**

810 METROPOLITAN AVENUE BROOKLYN, NY TT−Id: 520A−0040−886

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2241 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION
Spiller: DRIVER (PHILIP HALL)
Spiller Phone: (516) 731−4100
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: ROBERT RYAN
Caller Agency: CITIZEN
Caller Phone: (516) 694−4800
DEC Investigator: TOMASELLO
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/18/1988	12/18/1988	HUMAN ERROR	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

SPEEDY DRY CREW ON THE WAY.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 208 **NATIONAL DRUM** **Spill Number: 8601471** **Close Date: 06/02/1986**
35 BEADEL STREET BROOKLYN, NY TT−Id: 520A−0049−416

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2302 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Affected Persons
Caller Name:
DEC Investigator: UNASSIGNED

Spiller: NATIONAL DRUM. CO.
Notifier Name:
Caller Agency:
Contact for more spill info:

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/02/1986	06/02/1986	EQUIPMENT FAILURE	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

BETWEEN KINGSLAND & MORGAN JUST OFF B.Q. EXPRESSWAY− NO ACTION AS YETCOMPLAINT WAS PREVIOUSLY RPTD TP EPA−ODOR ABD PATRICULATE PROBLEMS

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "
10/10/95: This is additional information about material spilled from the translation of the old spill file: 5OAP DETERGENT PART.

06/02/86: ONGOING FOR SEVERAL YEARS.

NO ACTION. EPA WAS NOTIFIED SOME YEARS AGO.

PROBLEM SCACRENED. BUT NOW RESUMED.

Map Identification Number 209 **Spill Number: 0201184** **Close Date: 06/10/2002**
505 MORGAN AVE BROOKLYN, NY TT−Id: 520A−0049−413

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2497 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: CITIZEN
Notifier Phone:
Caller Name: LEROY MURPHY
Caller Agency: DEP
Caller Phone: (718) 595−6777
DEC Investigator: JBVOUGHT
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/01/2002		ABANDONED DRUM	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	220.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

4 55 gallon drums abandoned.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"
5/8/2002−Vought−No drum found. Spill closed. 5/30/2002−Site visit again after call from Peter Tarnowski 718/782−3554 stating that he had moved drums inside during previous drum run. Drums were moved outside for 5/30/2002 run and were found to contain contaminated soil. Drums were picked up by Milro Associates. Spill closed by Vought.

Map Identification Number 210
Spill Number: 0111362
Close Date: 03/11/2002

ANTHONY ST/MORGAN AVE
BROOKLYN, NY
TT−Id: 520A−0037−303

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2639 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL VEHICLE
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name: NY CITY FD
Caller Agency:
Caller Phone: (718) 622−6903
DEC Investigator: MXTIPPLE
Contact for more spill info: NY CITY FD
Contact Person Phone: (718) 662−6903

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/01/2002		TRAFFIC ACCIDENT	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	150.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TRACTOR TRAILER ACCIDENT CAUSED SADDLE TANK TO RUPTURE − SEWER ALSO AFFECTED − FIRE DEPT ON SCENE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"
3/11/2002 FDNY CLEANED UP ROADWAY SPILL

THE FOLLOWING CLOSED SPILLS FOR THIS CATEGORY WERE REPORTED BETWEEN 1/8 MILE AND 1/2 MILE FROM THE SUBJECT ADDRESS. THESE SPILLS WERE REPORTED TO BE LESS THAN 100 UNITS IN QUANTITY AND CAUSED BY: EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM OR STORMS. THESE SPILLS ARE NEITHER MAPPED NOR PROFILED IN THIS REPORT.

FACILITY ID	FACILITY NAME	STREET	CITY
9806871	FROST & MEEKER AVE	64 FROST STREET	BROOKLYN
9805219	179 RICHARDSON ST	179 RICHARDSON ST	BROOKLYN
9606564	30 HERBERT	30 HERBERT ST	GREENPORT
9509231	MEEKER AVE & HUMBOLDT ST	MEEKER AVE & HUMBOLDT ST	BROOKLYN
8804872	BKLYN QUNS EXPWY/HUMBOLT	BQE NORTHBOUND/HUMBOLT ST	NEW YORK CITY
0301048	BROOKLYN QUEENS EXPRESSWA	AND HUMBLE STREET	BROOKLYN
0005156	MEEKER AVE/MCGUINESS BLVD	MEEKER AVE/MCGUINESS BLVD	BROOKLYN
0005147	BROOKLYN QUEENS EXP	MEEKER/MCGUINNESS	BROOKLYN
9902388	EXIT RAMP OFF BQ EXPRESSW	HERBERT ST & HUMBOLDT ST	BROOKLYN
9801444	ALLEY WAY	735 LORIMER ST	BROOKLYN
8803052	BROOKLYN−QUEENS EXPWY	BKLYN/QUNS EXPWY/MEEKER	NEW YORK CITY
9214462	55 ECKFORD ST.	55 ECKFORD ST	BROOKLYN
0608722	SIDEWALK	139 SKILLMAN AVE	BROOKLYN
9401305	66 JACKSON STREET	66 JACKSON STREET	BROOKLYN
0601645	BFI WASTE SYSTEMS	214 RICHARDSON ST	BROOKLYN

0003074	VB6017	208 WITHER ST	BROOKLYN
8701082	SKILLMAN AVE. & GRAHAM AV	SKILLMAN AVE./GRAHAM AVE.	NEW YORK CITY
9707004	AMOCO STATION	243 MEEKER AVENUE	BROOKLYN
9109966	419 HUMBOLDT ST	419 HUMBOLDT ST	BROOKLYN
0209583		95 CONSELYEA ST	BROOKLYN
0712041	BQE−SOUTHBOUND	HENRY & MEEKER	BROOKLYN
9904400	MANHOLE #4429	DRIGGS AVE & NEWEL ST	BROOKLYN
1206606	OIL SPILL TO BASEMENT	563 MANHATTAN AVENUE	BROOKLYN
9513215	522 LEONARD ST	522 LEONARD ST	BROOKLYN
9511565	101 ECKFORD ST	101 ECKFORD STREET	BROOKLYN
9310560	101 ECKFORD STREET	101 ECKFORD STREET	BROOKLYN
0609437	DYMEK HOME	101 ECKFORD STREET	BROOKLYN
0511246	PRIVATE RESIDENCE	101 ECKFORD STREET	BROOKLYN
0801257	NORTH 11TH	ROEBLING STREET	BROOKLYN
0400060	TM 1142	11TH/ROEBLING STREET	BROOKLYN
9308021	677 METROPOLITAN AVENUE	677 METROPOLITAN AVENUE	BROOKLYN
9302207	385 HUMBOLDT ST.	385 HUMBOLDT ST	BROOKLYN
9813210		610 MANHATTAN AVE	BROOKLYN
9413301	106 KINGSLAND AVENUE	106 KINGSLAND AVENUE	BROOKLYN
1005554	COMMERCIAL BLDG W/ APTS ON TOP	271 FROST ST	BROOKLYN
9813147	LONG JIM KITCHEN	329 GRAHAM AVE	BROOKLYN
0201573		236 SKILLMAN AVE	BROOKLYN
9500338	764 METROPOLITAN AVE	764 METROPOLITAN AVENUE	BROOKLYN
0012499		561 METROPOLITAN AVE	BROOKLYN
9502053	LEONARD AVE & DEVOE ST	LEONARD AVE / DEVOE ST	BROOKLYN
0905854	SOCCI RESIDENCE	177 DEVOE ST	BROOKLYN
9303588	BEDFORD & NASSAU AVES	BEDFORD & NASSAU AVES	BROOKLYN
0509415	VAULT #VS849	BEDFORD AVE SO. OF NASSAU AVE	BROOKLYN
8901576	SHELL	2 BUSHWICK AVENUE	BROOKLYN
0513496	AMACO GAS STATION	2 BUSHWICK AVENUE	BROOKLYN
9414974	107 BEDFORD AVENUE	107 BEDFORD AVENUE	BROOKLYN
0402290	MANHOLE 646	BEDFORD AVE	BROOKLYN
1110118	PRIVATE DWELLING	184 DEVOE ST.	BROOKLYN
1103863	WAREHOUSE	25 DIVISION PLACE	BROOKLYN
8909052	MERIT S/S / BKLN	METROPOLITAN & BUSHWICK	BROOKLYN
8903546	METROPOLITAN AVE/MERRIT	METROPOLITAN&BUSHWICK AVE	NEW YORK CITY
0304895		582 LENARD ST	BROOKLYN
0505281	MANHOLE #620	KINGSLAND AVE & DRIGGS AVE	BROOKLYN
0706476	ALONG SIDE OF ROAD WAY	304 NORTH 7TH STREET	BROOKLYN
0408049	NYC HOUSING AUTHORITY	295 JACKSON AVE	BROOKLYN
9709589	ACROSS FROM HIGH SCHOOL	N 7TH ST	BROOKLYN
9901637	VAULT 5661	661 MANHATTAN AVE	BROOKLYN
0600390	TRUCK 60688 HYDRAULIC LEAK	LORIMER STREET & AINSLIE STREET	BROOKLYN
0811706	GAS STATION JK PETROLEUM	447 UNION AVE	BROOKLYN

9512040	25 BUSHWICK AVE	25 BUSHWICK AVE	BROOKLYN
0701659	WINTER RESIDENCE	167 N. 9TH ST	BROOKLYN
0303503	CON ED	N. 6TH STREET/MEEKER AVE	BROOKLYN
9702070	BQE E/B &	METROPOLITAN AV	BROOKLYN
9606041	BROOKLYN QUEENS EXPWY	AT METROPOLITAN AVE	BROOKLYN
8804145	BKLN−QNS EXPWY	BETW MEEKER & MTRPLTN AVS	NEW YORK CITY
1112918	ROADWAY	BQE WEST BOUND OFF THE MET. AVE	BROOKLYN
0307923	BROOKLYN KINGS EXPRESSWAY	AND METROPOLITAN AVE	BROOKLYN
0204909		BROOKLYN QUEENS EXPRESSWAY NO BO @ METROPOLETAN	BROOKLYN
0890037	205393; MASPETH AVE	MASPETH AVE	
9910186	RODNEY STREET	IN THE AREA OF 485 RODNEY	BROOKLYN
9509511	687 MEEKER AVENUE	687 MEEKER AVENUE	BROOKLYN
8910037	185 POWERS ST − BKLN	185 POWERS ST	BROOKLYN
0200153		MORGAN AVE/BEETLE AVE	BROOKLYN
0200149	ROADWAY	BEADEL ST/MORGAN AVE	BROOKLYN
0603190	MANHOLE # 4384	688 MANHATTAN AVENUE	BROOKLYN
9812628		DIVISION AVE/MORGAN ST	BROOKLYN
9913950	ROADWAY	LOMBARDI ST/MORGAN AVE	BROOKLYN
0503810	INTERSECTION OF	LOMBARDY STREET AND MORGE	BROOKLYN
0312266	TM #1827	MORGAN/LABARDY STREET	BROOKLYN
0513280	RESIDENCE	92 NORMAN AVE	BROOKLYN
0100018		50 BUSHWICK AVE	BROOKLYN
0801005	S/S BREAKER LEAKED DURING REMOVAL	324 AINSLIE ST. SUBSTATION	BROOKLYN
9309397	536 DRIGGS AVENUE	536 DRIGGS AVENUE	BROOKLYN
9108752	536 DRIGGS AVE	536 DRIGGS AVENUE	BROOKLYN
9006886	536 DRIGGS AVE/BKLYN	536 DRIGGS AVENUE	NEW YORK CITY
9913668	BEDFORD AVE AND NORTH 9TH	STREET	BROOKLYN
9302676	122 NORMAN AVE	122 NORMAN AVE	

NO OIL STORAGE FACILITIES LARGER THAN 400,000 GALLONS IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PETROLEUM BULK STORAGE FACILITIES LESS THAN 400,000 GALLONS IDENTIFIED WITHIN THE 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 211 **ISRAEL M DOLGIN ASSOC** **Facility Id: 2−090301** **Source: NYS DEC**
101 RICHARDSON STREET BROOKLYN, 11211 TT−Id: 640A−0018−739

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 197 feet to the WSW*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Manufacturing (Other than Chemical)/Processing
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: PATRICK CORZIE
Owner Name: NEIL DOLGIN − VP
Owner Company: ISRAEL M.DOLGIN ASSOCIATES
Owner Address: 101 RICHARDSON ST, BROOKLYN, NY 11211

Operator Phone #: (718) 388−7700
Owner Type: Corporate or Commercial

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − In Place	#6 Fuel Oil	5000	Underground			09/30/1988

TANK NUMBER: 001
TANK EXT. PROTECTION: None
PIPING EXT. PROTECTN: None
PIPING TYPE: Steel/Carbon Steel/Iron
OVERFILL PROTECTION: Product Level Gauge (A/G)

TANK TYPE: Steel/Carbon Steel/Iron
TANK LEAK DETECTN: None
PIPING LEAK DETECTN: Exempt Suction Piping
PIPING LOCATION: No Piping
SPILL PREVENTION:

TK INT. PROTECTION: None
TK SEC. CONTAINMNT: Vault (w/o access)
PIPE SEC. CONTAINMNT:
DISPENSER METHOD: Suction

Map Identification Number 212 **ISREAL M DOLGIN ASSC** **Facility Id: NY05058** **Source: NYC FIRE DEPT**
87 RICHARDSON ST BROOKLYN, NY 11211 TT−Id: 660A−0004−930

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 313 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: F O OV 2500G

Map Identification Number 213 **278 FUEL STOP, INC.** **Facility Id: 2−510793** **Source: NYS DEC**
392 LEONARD STREET BROOKLYN, 11211 TT−Id: 640A−0018−742

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 386 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Retail Gasoline Sales
Site Status: Active
Expiration Date of the facility's registration certificate: 02/16/2014
Operator Name: KULDEEP SINGH
Operator Phone #: (718) 388−3329
Owner Name: − SECRETARY
Owner Company: 278 FUEL STOP, INC.
Owner Type: Corporate or Commercial
Owner Address: 392 LEONARD STREET, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	Gasoline	4000	Underground	08/01/1972	07/19/2012	
The following tank 001 content has been deleted or replaced: Diesel							
002	Closed − Removed	Gasoline	550	Underground	11/01/1939	01/01/1994	04/01/1999
003	Closed − Removed	Gasoline	550	Underground	11/01/1939	01/01/1994	04/01/1999
004	Closed − Removed	Gasoline	550	Underground	11/01/1939	01/01/1994	04/01/1999
005	Closed − Removed	Gasoline	550	Underground	11/01/1939	01/01/1994	04/01/1999
006	Closed − Removed	Waste Oil/Used Oil	550	Underground	11/01/1939		06/13/2009
The following tank 006 content has been deleted or replaced: Diesel							
006A	In Service	Diesel	4000	Underground	04/01/1999		
007A	In Service	Diesel	4000	Underground	04/01/1999		
The following tank 007A content has been deleted or replaced: Gasoline							
008A	In Service	Gasoline	4000	Underground	04/01/1999		

Map Identification Number 214 **A−I AUTO REPAIRS INC.** **Facility Id: 2−611136** **Source: NYS DEC**
392 LEONARD STREET BROOKLYN, 11211 TT−Id: 640A−0086−632

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 386 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Auto Service/Repair (No Gasoline Sales)
Site Status: Active
Expiration Date of the facility's registration certificate: 07/22/2014
Operator Name: AVTAR SINGH
Operator Phone #: (718) 388−3464

Owner Name:
Owner Company: AVTAR SINGH
Owner Address: 126 BERWOOD DR., LINDEN, NJ 07036
Owner Type:

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
1	In Service	Waste Oil/Used Oil	250	Aboveground on Crib Rack or Cradle	06/01/2008		

Map Identification Number 215 **JUNIOR HIGH SCHOOL 126 − BROOKLYN** **Facility Id: 2−356476** **Source: NYS DEC**
424 LEONARD STREET BROOKLYN, 11222 TT−Id: 640A−0018−741

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 433 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: 424 LEONARD ST
Revised zip code: NO CHANGE

Facility Type: School
Site Status: Active
Expiration Date of the facility's registration certificate: 06/28/2013
Operator Name: PLANT OPERATIONS
Operator Phone #: (718) 349−5400
Owner Name: JAMES A. MERLO − MANAGER, FUEL DIVISION
Owner Company: NEW YORK CITY DEPARTMENT OF EDUCATION
Owner Type: Local Government
Owner Address: 44−36 VERNON BOULEVARD, LONG ISLAND CITY, NY 11101

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#4 Fuel Oil	10000	Aboveground on Crib Rack or Cradle	03/22/1966		
002	In Service	#4 Fuel Oil	10000	Aboveground on Crib Rack or Cradle	03/22/1966		

Map Identification Number 216 **D L BRENNER & SONS INC** **Facility Id: 2−257958** **Source: NYS DEC**
407 LEONARD ST BROOKLYN, 11222 TT−Id: 640A−0018−740

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 469 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Unknown
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: D L BRENNER & SONS INC
Operator Phone #: (718) 387−8785
Owner Name:
Owner Company: D L BRENNER REALTY
Owner Type:
Owner Address: 508 BRIARWOOD CIRCLE, HOLLYWOOD, FL 33024

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	Diesel	550	Underground			10/01/1990
002	Closed − Removed	Diesel	550	Underground			10/01/1990
003	Closed − Removed	Gasoline	550	Underground			10/01/1990
004	Closed − Removed	Other	550	Underground			10/01/1990
005	Closed − Removed	Other	550	Underground			10/01/1990

Map Identification Number 217 **INTER MASTER CORP** **Facility Id: 2−610788** **Source: NYS DEC**
387 MANHATTAN AVE. BROOKLYN, 11211 TT−Id: 640A−0081−264

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 494 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Other
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: HENRYK ZAWOJEK
Operator Phone #: (718) 349−6291
Owner Name: HENRYK ZAWOJEK − PRES
Owner Company: HENRYK ZAWOJEK
Owner Type: Corporate or Commercial
Owner Address: 387 MANHATTAN AVE, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	Gasoline	750	Underground	06/05/2003		03/05/2008
002	Closed − Removed	Gasoline	550	Underground	06/05/2003		03/06/2008

Map Identification Number 218 **DAMATO SALES & SERVICES** **Facility Id: NY03031** **Source: NYC FIRE DEPT**
104 FROST ST BROOKLYN, NY 11211 TT−Id: 660A−0005−095

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 497 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: SG 1 550G GAS ADD 1 TK GAS
ALT−8/87 (MAKE UNKWN)
ADDL 9 AUTOS M.V. −6

Map Identification Number 219 **TRICO ELECTRICAL CORP.** **Facility Id: 2−069140** **Source: NYS DEC**
495 GRAHAM AVE BROOKLYN, 11222 TT−Id: 640A−0019−450

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 517 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Trucking/Transportation/Fleet Operation
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: PETER TRILIVAS
Operator Phone #: (718) 853−7070
Owner Name: PETER TRILIVAS − OWNER/OPERATOR
Owner Company: 495 GRAHAM AVENUE LLC
Owner Type: Corporate or Commercial
Owner Address: 495 GRAHAM AVENUE, BROOKLYN, NY 11222

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − In Place	Diesel	4000	Underground	07/01/1981	06/01/1997	11/15/2008

The following tank 001 content has been deleted or replaced: Gasoline

Map Identification Number 220 **FDNY ENGINE 229 / LADDER 146** **Facility Id: 2−600510** **Source: NYS DEC**
75 RICHARDSON STREET BROOKLYN, 11211 TT−Id: 640A−0018−743

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 548 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Other
Site Status: Unregulated
Expiration Date of the facility's registration certificate:
Operator Name: COMPANY OFFICER
Operator Phone #: (718) 965−8229
Owner Name:
Owner Company: F.D.N.Y.
Owner Type: Local Government
Owner Address: 250 LIVINGSTON STREET, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	#2 Fuel Oil	2000	Aboveground − In Contact with Soil	12/01/1997		12/01/1997
002	Closed − In Place	Gasoline	275	Underground	05/01/1997		05/01/1997
003	In Service	Diesel	550	Aboveground on Crib Rack or Cradle	12/01/1997		

**** TANK INFO CONTINUES ON NEXT PAGE ****

Map Identification Number 221 **MOBILE SYSTEMS UNIT** **Facility Id: 2−045799** **Source: NYS DEC**
75 FROST STREET BROOKLYN, 11211 TT−Id: 640A−0018−737

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 584 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 75 FROST ST
Revised zip code: NO CHANGE

Site Status: Unregulated
Expiration Date of the facility's registration certificate:

Facility Type: Utility (Other than Municipal)

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

TANK INFORMATION
Aboveground tanks: No Underground tanks: No

Operator Name: MICHAEL P. RICATTO
Operator Phone #: (718) 387−6720
Owner Name:
Owner Company: MICHAEL P. RICATTO
Owner Type: Corporate or Commercial
Owner Address: 391 LEONARD STREET, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed−In Place	UNLEADED GASOLINE	4000	Underground	06/01/1971		
002	In Service	UNLEADED GASOLINE	4000	Underground	06/01/1971		

Map Identification Number 222 **ALL BORO** **Facility Id: 2−609713** **Source: NYS DEC**
391 LEONARD STREET BROOKLYN, 11211 TT−Id: 640A−0018−738

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 584 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Facility Type: Manufacturing (Other than Chemical)/Processing
Site Status: Active
Expiration Date of the facility's registration certificate: 09/30/2014
Operator Name: MICHAEL RICATTO
Operator Phone #: (718) 387−0702
Owner Name: MICHAEL RICATTO − PRESIDENT
Owner Company: MICHAEL RICATTO
Owner Type: Corporate or Commercial
Owner Address: 391 LEONARD STREET, BROOKLYN, NY 11211

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#2 Fuel Oil	3000	Aboveground − In Contact with Soil	06/13/1950		

Map Identification Number 223 **FRATELLI RICATTO** **Facility Id: NY04036** **Source: NYC FIRE DEPT**
391 LEONARD ST BROOKLYN, NY 11211 TT−Id: 660A−0004−933

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 584 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: FUEL OIL 2500G

Map Identification Number 224 **CREST BODY EQUIP CRP** **Facility Id: NY02925** **Source: NYC FIRE DEPT**
72 BAYARD ST BROOKLYN, NY 11222 TT−Id: 660A−0004−929

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 595 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: FUEL OIL #2 1500G

HAZARDOUS WASTE GENERATORS/TRANSPORTERS IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 225 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004043931**
NYSDEC Address: MEEKER AVE & RICHARDSON NEW YORK, NY 10003 TT−Id: 740A−0012−490

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / RICHARDSON ST
Revised zip code: 11211

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	27	KILOGRAMS	GENERATED	1999		

Map Identification Number 226 **NYSDEC Name:** **CONSOLIDATED EIDSON** **Facility Id: NYP004137071**
NYSDEC Address: MEEKER & MANHATTAN MH64805 BROOKLYN, NY 11201 TT−Id: 740A−0015−475

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / MANHATTAN AVE
Revised zip code: 11222

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	426	KILOGRAMS	GENERATED	2005		

Map Identification Number 227 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004203194**

NYSDEC Address: MEEKER−N−RICHARDSON MH #71303 BROOKLYN, NY TT−Id: 740A−0077−361

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / RICHARDSON ST
Revised zip code: 11222

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	No hazardous waste activity reported by NYS up to 11/2/2012.						

Map Identification Number 228 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004223194**

NYSDEC Address: MEEKER & RICHARDSON BROOKLYN, NY TT−Id: 740A−0076−265
EPA (RCRA) Name: CON EDISON MANHOLE 71303
EPA (RCRA) Address: MEEKER & RICHARDSON BROOKLYN, NY 11204

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / RICHARDSON ST
Revised zip code: 11222

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: CHARLES CARRILLO Source Type: Emergency Contact Phone: 718−204−4455 Contact Info Date: 01/05/2011
Contact Name: CHARLES CARRILLO Source Type: Implementer Contact Phone: 718−204−4455 Contact Info Date: 02/04/2011

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		240	KILOGRAMS	GENERATED	2011		
D008	Lead						
D007	Chromium						
D006	Cadmium						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						

Map Identification Number 229 **NYSDEC Name:** **NYSDOT BIN 1065609** **Facility Id: NYR000155804**

NYSDEC Address: I−278 OVER MANHATTAN AVE BROOKLYN, NY 11222 TT−Id: 740A−0062−335
EPA (RCRA) Name: NYSDOT BIN 1065609
EPA (RCRA) Address: I−278 OVER MANHATTAN AVE BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 137 feet to the SE*

ADDRESS CHANGE INFORMATION
Revised street: I−278 / MANHATTAN AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: LARGE QUANTITY GENERATOR
Notification date: 12/27/2007
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: CARL KOCHERSBERGER Source Type: Implementer Contact Phone: 518−485−9161 Contact Info Date: 12/26/2007
Contact Name: CARL KOCHERSBERGER Source Type: Notification Contact Phone: 518−485−9161 Contact Info Date: 12/27/2007

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 230 **NYSDEC Name:** **CITY BARREL & DRUM CO INC** **Facility Id: NYD068298835**

NYSDEC Address: 421 MEEKER AVE BROOKLYN, NY 11222 TT−Id: 740A−0011−036
EPA (RCRA) Name: CITY BARREL & DRUM CO INC
EPA (RCRA) Address: 421 MEEKER AVE BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 190 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

This facility has been deleted from the reported data. Data reflects last reported information.
US EPA RCRA Type: GENERATOR TYPE NOT GIVEN Notification date: 11/28/1980
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter: No current info −− Previously reported
Contact Name: HARRY GOLDSTEIN Source Type: Implementer Contact Phone: 201−388−9227 Contact Info Date: 01/01/2007
Contact Name: HARRY GOLDSTEIN Source Type: Notification Contact Phone: 201−388−9227 Contact Info Date: 11/28/1980

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	HISTORIC MAXIMUM YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	No hazardous waste activity reported by NYS up to 11/2/2012.						

Map Identification Number 231 **NYSDEC Name:** **NYC BOARD OF EDUCATION PS 126 K** **Facility Id: NYR000106922**

NYSDEC Address: 424 LEONARD ST BROOKLYN, NY 11222 TT−Id: 740A−0011−709
EPA (RCRA) Name: NYC BD OF ED − IS 126K
EPA (RCRA) Address: 424 LEONARD ST BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 366 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR Notification date: 06/06/2002
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: BERNARD ORLAN Source Type: Implementer Contact Phone: 718−391−6475 Contact Info Date: 01/01/2007
Contact Name: BERNARD ORLAN Source Type: Notification Contact Phone: 718−391−6475 Contact Info Date: 06/06/2002

Historically listed as the following USEPA RCRA Generator Size(s) as well:
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	492	KILOGRAMS	GENERATED	2012		
More than one waste code was reported for the following waste amount:		20	KILOGRAMS	GENERATED	2012		
B002	Petroleum oil or other liquid containing 50 ppm < PCBs < 500 ppm						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						
D002	Solid waste that exhibits the characteristic of corrosivity	30	POUNDS	GENERATED	2009	325	2004
D003	Solid waste that exhibits the characteristic of reactivity	70	POUNDS	GENERATED	2009		
D005	Barium	30	POUNDS	GENERATED	2009		
More than one waste code was reported for the following waste amount:		40	POUNDS	GENERATED	2009		
D001	Solid waste that exhibits the characteristic of ignitability						
D007	Chromium						
D001	Solid waste that exhibits the characteristic of ignitability	40	POUNDS	GENERATED	2008		
D008	Lead	140	POUNDS	GENERATED	2008		
D009	Mercury	5	POUNDS	GENERATED	2008		
More than one waste code was reported for the following waste amount:		30	POUNDS	GENERATED	2008		
D001	Solid waste that exhibits the characteristic of ignitability						
D008	Lead						
D007	Chromium	5	POUNDS	GENERATED	2004		
P075	Pyridine, 3−(1−methyl−2−pyrrolidinyl)−, (S)−, & salts	5	POUNDS	GENERATED	2004		
D002	Solid waste that exhibits the characteristic of corrosivity	1	LITERS	GENERATED	2003		

NOTE: 2012 waste amounts are for 1/1/12 to 11/2/12 only

Map Identification Number 232 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004153664**
NYSDEC Address: BAYARD ST & LEONARD ST BROOKLYN, NY TT−Id: 740A−0062−069

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 407 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: BAYARD ST / LEONARD ST
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		150	KILOGRAMS	GENERATED	2007		
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						
D006	Cadmium						
D007	Chromium						
D008	Lead						

Map Identification Number 233 **NYSDEC Name:** **NYSDOT BIN 106560A** **Facility Id: NYR000155788**
NYSDEC Address: I−278 EB OVER GRAHAM AVE BROOKLYN, NY 11222 TT−Id: 740A−0062−333
EPA (RCRA) Name: NYSDOT BIN 106560A
EPA (RCRA) Address: I−278 EB OVER GRAHAM AVE BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 466 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: I−278 / GRAHAM AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: LARGE QUANTITY GENERATOR
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: 12/27/2007
Incinerator:
Transporter:

Contact Name: CARL KOCHERSBERGER Source Type: Implementer Contact Phone: 518−485−9161 Contact Info Date: 12/26/2007
Contact Name: CARL KOCHERSBERGER Source Type: Notification Contact Phone: 518−485−9161 Contact Info Date: 12/27/2007

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 234 **NYSDEC Name:** **NYSDOT BIN 106560B** **Facility Id: NYR000155796**

NYSDEC Address: I−278 WB OVER GRAHAM AVE BROOKLYN, NY 11222 TT−Id: 740A−0062−334
EPA (RCRA) Name: NYSDOT BIN 106560B
EPA (RCRA) Address: I−278 WB OVER GRAHAM AVE BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 466 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: I−278 / GRAHAM AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: LARGE QUANTITY GENERATOR
Notification date: 12/27/2007
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: CARL KOCHERSBERGER Source Type: Implementer Contact Phone: 518−485−9161 Contact Info Date: 12/26/2007
Contact Name: CARL KOCHERSBERGER Source Type: Notification Contact Phone: 518−485−9161 Contact Info Date: 12/27/2007

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 235 **NYSDEC Name:** **GRAF AIR** **Facility Id: NYD986929677**

NYSDEC Address: 407 LEONARD ST BROOKLYN, NY 11201 TT−Id: 740A−0013−452
EPA (RCRA) Name: GRAF AIR PROPERTY
EPA (RCRA) Address: 407 LEONARD ST BROOKLYN, NY 11222

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 477 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: 407 LEONARD STREET
Revised zip code: 11222

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: 11/02/1990
Land Disposal:
Receives offsite waste:
Incinerator:
Storer:
Treatment facility:
Transporter:
Contact Name: PAT FITZGERALD
Source Type: Implementer
Contact Phone: 815−338−3120
Contact Info Date: 01/01/2007
Contact Name: PAT FITZGERALD
Source Type: Notification
Contact Phone: 815−338−3120
Contact Info Date: 11/02/1990

Historically listed as the following USEPA RCRA Generator Size(s) as well:
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
D001	Solid waste that exhibits the characteristic of ignitability	110	GALLONS	GENERATED	1990		

Map Identification Number 236
NYSDEC Name: **NYC FIRE DEPT ENGINE CO 229**
Facility Id: NYR000040410
NYSDEC Address: 75 RICHARDSON ST BROOKLYN, NY 11211
TT−Id: 740A−0011−619
EPA (RCRA) Name: NYC FIRE DEPT ENGINE CO 229
EPA (RCRA) Address: 75 RICHARDSON ST BROOKLYN, NY 112111305

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 551 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: 06/04/1997
Land Disposal:
Receives offsite waste:
Incinerator:
Storer:
Treatment facility:
Transporter:
Contact Name: ROBERT WING
Source Type: Notification
Contact Phone: 718−981−7683
Contact Info Date: 06/04/1997

Historically listed as the following USEPA RCRA Generator Size(s) as well:
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 237 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004029153**
NYSDEC Address: MH64805−MEEKER AVE & FROST ST NEW YORK, NY TT−Id: 740A−0014−936

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: FROST ST / MEEKER AV
Revised zip code: 11211

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	809	KILOGRAMS	GENERATED	1998		

Map Identification Number 238 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004150322**
NYSDEC Address: MEEKER AVE AND FROST ST BROOKLYN, NY 11211 TT−Id: 740A−0063−837
EPA (RCRA) Name: CON EDISON MANHOLE 64805
EPA (RCRA) Address: MEEKER AVE & FROST ST BROOKLYN, NY 11211

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / FROST ST
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:

Contact Name: FRANKLIN MURRAY Source Type: Annual/Biennial Report update with Notification Contact Phone: 212−460−2808 Contact Info Date: 02/21/2008
Contact Name: DANIEL PONTECORVO Source Type: Emergency Contact Phone: 212−580−8383 Contact Info Date: 03/14/2008
Contact Name: DANIEL PONTECORVO Source Type: Implementer Contact Phone: 212−580−8383 Contact Info Date: 03/15/2008

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B002	Petroleum oil or other liquid containing 50 ppm < PCBs < 500 ppm	1794	KILOGRAMS	GENERATED	2007		

Map Identification Number 239 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004185401**
NYSDEC Address: MEEKER AVE & FROST ST − MH64805 BROOKLYN, NY 11202 TT−Id: 740A−0067−855

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 564 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: MEEKER AVE / FROST ST
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		100	KILOGRAMS	GENERATED	2009		
D008	Lead						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						
D006	Cadmium						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						

Map Identification Number 240 **NYSDEC Name:** **NYCDEP** **Facility Id: NYP000954487**
NYSDEC Address: 75 FROST ST BROOKLYN, NY TT−Id: 740A−0013−532

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 592 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D001	Solid waste that exhibits the characteristic of ignitability	1240	POUNDS	GENERATED	2003		
D002	Solid waste that exhibits the characteristic of corrosivity	40	POUNDS	GENERATED	2003		

Map Identification Number 241 **NYSDEC Name:** **NYCDEP** **Facility Id: NYP003600826**
NYSDEC Address: 75 FROST ST BROOKLYN, NY TT−Id: 740A−0013−534

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 592 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 11211

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D002	Solid waste that exhibits the characteristic of corrosivity	50	POUNDS	GENERATED	1999		

NO CHEMICAL STORAGE FACILITIES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

NO HISTORIC UTILITY SITES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

HAZARDOUS SUBSTANCE WASTE DISPOSAL SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 242 **CITY BARREL** **Site Number Id:** **Registry Id: N**
421 MEEKER STREET BROOKLYN, NY 11222 TT−Id: 840A−0000−409

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 188 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Hazardous Waste Remediation
Hazardous Substance Waste Disposal Site Study

Inventory Status: Removed from the Hazardous Substance Inventory
Reason site did not qualify for the Inventory:
No evidence of disposal

SITE INFORMATION

Site Name: CITY BARREL
Site Street: 421 MEEKER STREET
Site City: BROOKLYN
Site Zip: 11222
Region: 2

Site Number:
Registry: No
Registry Site ID: None
RCRA: Unknown
EPA ID: NYD068298835

US EPA No Further Remedial Action Planned? Unknown

Site Code: 1
Description: INDUSTRIAL SITE

Acres: 0.00
Completed Investigation? PA
Is Site Active: Unknown
Years of Operation: 1940 to Unknown

Quadrangle: Unknown
HRS Score: Unknown
HRS Date: Unknown

Site Description:

Storage site for reconditioned drums.

Owner:	Private	Operator:	SAME
Owner Name:	HARRY GOLDSTEIN	Operator Name:	Unknown
Owner Street:	421 MEEKER ST.	Operator Street:	Unknown
Owner City/ZIP/State:	BROOKLYN, NY 11222	Operator City/ZIP/State:	
Owner Telephone:	(212)388-9227	Operator Telephone:	Unknown

SITE IMPACT DATA

Affected Media:

		Hazardous Substance Exposed?	Unknown
Contamination of...		Controlled Site Access?	Unknown
...Surface Water?	No	Ambient Air Contamination?	Unknown
...Groundwater?	No	Threat of Direct Contact?	Unknown
...Drinking Water?	No	Documented Fish or Wildlife Mortality?	No
Surface Water Class:	Unknown	Impact on Special Status Fish or Wildlife Resource?	No
Groundwater Class:	Unknown	Active Drinking Water Supply?	Unknown

Descriptions:

Surface Water:	None provided
Groundwater:	None provided
Drinking Water:	None provided
Fish or Wildlife Mortality:	None provided
Special Status Fish or Wildlife Resource:	None provided
Building:	None provided

THREAT TO THE ENVIRONMENT OR PUBLIC HEALTH

Threat to the Environment or the Public Health: None

Threat Posed by Disposed Hazardous Substance:
The drums in storage have been reconditioned by another company before being brought on site.

HAZARDOUS SUBSTANCES DISPOSED:

VOCs: No Semi-VOCs: No PCBs: No Pesticides: No Metals: No Asbestos: No

Hazardous Substances Disposed:
There is no history of hazardous wastes on site.

SELECTED ANALYTICAL INFORMATION:

Samples Collected:
None

Air:	None provided
Surface Water:	None provided
Surface Soil:	None provided
Waste:	None provided
EPToxicity:	None provided
Groundwater:	None provided
Sediment:	None provided
Subsurface Soil:	None provided
Leachate:	None provided
TCLP:	None provided

AGENCY INFORMATION:

Regulatory Agencies Involved:
NYSDEC NYSDOH

Preparer:
Julie Welch NYSDEC, Intern, RPI Env.Eng.Tech. 1 February 14, 1994

NO TOXIC AIR, LAND AND WATER RELEASES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

NO WASTEWATER DISCHARGES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

AIR DISCHARGE FACILITIES IDENTIFIED WITHIN THE 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 243 **ELLI WOODWORKING INDUSTRIES** **Facility Id: 36047P0003** **State−county CDS Id: 36047P0003**
121−125 NEWTON STREET BROOKLYN, NY 11222 State−county NED id:
TT−ID: 900A−0002−332

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 595 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

CDS−ID: P0003 NED−ID: None Given EPA−ID: None Given FINDS−ID: None Given
Plant Phone #1: None Given Plant Phone #2: None Given
Operating Status: OPERATING
EPA Classification:
State Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
EPA Plant Compliance Status:
State Plant Compliance Status: IN VIOLATION WITH REGARD TO BOTH EMISSIONS AND PROCEDURAL COMPLIANCE

AIR PROGRAM INFORMATION
Regulatory Air Program: SIP SOURCE Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: VOLATILE ORGANIC COMPOUNDS
State Pollutant Compliance for this pollutant: IN VIOLATION WITH REGARD TO BOTH EMISSIONS AND PROCEDURAL COMPLIANCE

CIVIL & ADMINISTRATIVE ENFORCEMENT DOCKET FACILITIES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 244 **NYC BD OF ED − JUNIOR HIGH SCH** **Facility Id: NY0000379990**
424 LEONARD STREET BROOKLYN, NY 11222 TT−Id: 920A−0000−310

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 368 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

==========
CIVIL ENFORCEMENT DOCKET CASE INFORMATION
==========

DOCKET CASE #	COURT DOCKET NUMBER	DATE FILED	DATE CONCLUDED	JUDICIAL DISTRICT	CASE NAME
02−1994−0052	98 CIV 5095 (SHS)	07−21−1998	07−20−1999	SDNY	NEW YORK CITY SCHOOL CONSTRUCT

DEFENDANT NAME(S): ADMIRAL ABATEMENT
ASBESTOS PRO'S, INC.
CERTIFIED ASBESTOS CORP.
CST ENVIRONMENTAL, INC.
EWT CONTRACTING, INC.
KISS CONSTRUCTION
NATIONAL ENVIRONMENTAL SAFETY COMP., INC
NEW YORK CITY SCHOOL CONTRUCTION AUTH
TRIO ASBESTOS REMOVAL CORPORATION

LAW(S) VIOLATED
Clean Air Act − Section 112
Clean Air Act − Section 113

DISPOSITION OF CASE
Consent instrument with penalty

FEDERAL PENALTY ASSESSED
175000

COST RECOVERY AWARDED

TYPE OF VIOLATION(S)
Asbestos Requirement Violation (CAA)

National Emission Standard for Hazardous Air Pollutant

TYPE OF POLLUTANT(S)
ASBESTOS

NYC ENVIRONMENTAL QUALITY REVIEW REQUIREMENTS − "E" DESIGNATION SITES IDENTIFIED WITHIN 250 FT SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 245 **BLOCK: 2723 LOT: 30** **TT−Id: 820A−0001−877**
415 MANHATTAN AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0030	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Air Quality − Operable Window Limitations Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 246 **BLOCK: 2723 LOT: 29** **TT−Id: 820A−0001−876**
417 MANHATTAN AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 26 feet to the NW*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0029	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Air Quality − Operable Window Limitations Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 247 **BLOCK: 2723 LOT: 33** **TT−Id: 820A−0001−878**
391 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 87 feet to the S*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0033	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Air Quality − Operable Window Limitations Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 248 **BLOCK: 2723 LOT: 36** **TT−Id: 820A−0001−879**
113 RICHARDSON STREET

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 104 feet to the SW*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0036	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Air Quality − Operable Window Limitations Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 249 **BLOCK: 2723 LOT: 37** **TT−Id: 820A−0001−880**
111 RICHARDSON STREET

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 123 feet to the SW*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0037	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 250 **BLOCK: 2724 LOT: 1** **TT−Id: 820A−0001−882**
411 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 125 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0001	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 251 **BLOCK: 2724 LOT: 37** **TT−Id: 820A−0001−891**
417 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 152 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0037	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 252 **BLOCK: 2724 LOT: 7** **TT−Id: 820A−0001−883**
430 MANHATTAN AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 180 feet to the NNE*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0007	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 253 **BLOCK: 2724 LOT: 34** **TT−Id: 820A−0001−890**
419 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 191 feet to the ENE*

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0034	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 254 **BLOCK: 2723 LOT: 38** **TT−Id: 820A−0001−881**
101 RICHARDSON STREET

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 202 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02723−0038	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 255 **BLOCK: 2724 LOT: 10** **TT−Id: 820A−0001−884**
130 BAYARD STREET

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 217 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0010	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 256 **BLOCK: 2724 LOT: 33** **TT−Id: 820A−0001−889**
MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 221 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0033	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

Map Identification Number 257 **BLOCK: 2724 LOT: 31** **TT−Id: 820A−0001−888**
433 MEEKER AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 247 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
3−02724−0031	E−138	04DCP003K	050110 ZRK 050111 ZMK 050415 MMK 040416 MMK 040417 MMK 040418 MMK 050110 (A)ZRK 050111 (A)ZMK	12c 12d 13a 13b	05/11/2005		Underground Gasoline Storage Tanks Testing Protocol

U.S. EPA EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) SPILLS
AT THE LOCATION OR POTENTIALLY AT THE LOCATION OF
415 Manhattan Avenue
Brooklyn, NY 11222

* Any ERNS Spills listed below are NOT mapped in this report *

ONSITE ERNS (A count of these spills can be found in the distance interval table):
THIS SITE IS NOT FOUND IN THE ERNS DATABASE

POTENTIALLY ONSITE ERNS:
THIS SITE IS NOT FOUND IN THE ERNS DATABASE

Copyright 2013 Toxics Targeting, Inc. February 27, 2013 '415 Manhattan Avenue'

Unmappable facilities for 'Kings' County

NPL/CERCLIS/NYSDEC Inactive Haz. Waste or Reg. Qual. Sites

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NYD980531628	WILLIAM HARVEY CORP	UNKNOWN	BROOKLYN	UNKNOWN
NYD980532014	BKLYN UNION GAS /GREENPOINT ENERGY FACIL	287 MASPETH AVE	BROOKLYN	UNKNOWN
NYD980532030	BKLYN UNION GAS /WILLIAMSBURGH WORKS	KENT AVE N 12TH ST /E RIV	BROOKLYN	11211
NYD980532220	BKLYN UNION GAS /MASPETH GATE STA	285 MASPETH AVE	BROOKLYN	UNKNOWN
NYD980532261	BKLYN UNION GAS/VARICK GATE STATION	438 VARICK AVE	BROOKLYN	UNKNOWN
NYD987015245	NEWTOWN CREEK SOLVENT DRUM	NEWTOWN CREEK	QUEENS	UNKNOWN

Solid Waste Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
24D05	EMPIRE MILL DEMO			UNKNOWN
24D07	RED HOOK CONTAINER DEMO			UNKNOWN
24M01	ASHMONT METALS RES.REC.			UNKNOWN
24T55	CARDELLA TRUCKING			UNKNOWN
24T75	ROBERT BOLOGNA WCTB INC.			UNKNOWN
24TA8	U.S. COAST LINE, INC.			UNKNOWN
24TB3	J. WISE EXCAVATING			UNKNOWN
24Y81	NYCDPR YARD WASTE COMPOST			UNKNOWN

Hazardous Spills − MISC. SPILL CAUSES − Active

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
1209744	BROOKLYN BATTERY TUNNEL	BROOKLYN BATTERY TUNNEL		UNKNOWN
9113333	MCGUINNESS BVD/LEONARD ST	MCGUINNESS BVD/LEONARD ST	BROOKLYN	UNKNOWN
1214948	SUB STATION TRANSFORMER	776 886 ST	BROOKLYN	UNKNOWN
1211499	BASEMENT	36 PARGETHE STREET	BROOKLYN	UNKNOWN
1209854	MONTAQUE RAIL STATION IN TUBE	MONTAQUE RAIL STATION IN TUBE	BROOKLYN	UNKNOWN
1209775	BROOKLYN	ALL STREETS	BROOKLYN	UNKNOWN
1111782	LORIMER ST STATION	LORIMER ST STATION	BROOKLYN	UNKNOWN
0612595	PORT AUTHORITY −BUILDING #111	FOOT OF HAMILTON AVE	BROOKLYN	UNKNOWN
0308367	AGUANA SUBSTATION	104−27 STREET	BROOKLYN	UNKNOWN
0004685	EXXON GAS STATION	NORTH HENRY STREET	BROOKLYN	11222

Hazardous Spills − TANK FAILURES − Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
8607075				UNKNOWN
9510983	1848 STEWART ST	1848 STEWART ST	BROOKLYN	UNKNOWN
9313502	1782 GLEASON AVE	1782 GLEASON AVE	BROOKLYN	UNKNOWN
9209000	1621 EAST KENT STREET	1621 EAST KENT STREET	BROOKLYN	UNKNOWN
9109440	HOBBY SHOP GARAGE/US NAVY	HOBBY SHOP GARAGE	BROOKLYN	UNKNOWN

Hazardous Spills − TANK TEST FAILURES − Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
0605577	MERIDIAN PROPERTIES	101 LINCOLN BLVD	BROOKLYN	UNKNOWN
8806571	CLOSED−LACKOF RECENT INFO	ADMINISTRATION BLDG	NYC	UNKNOWN

Hazardous Spills − UNKNOWN CAUSE OR OTHER CAUSES − Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9213773				UNKNOWN
8603146				UNKNOWN
0700460	IN FRONT OF BJ'S IN ROADW	339 GATEWAY STREET	BRONX	UNKNOWN
0209904	VARIOUS DEP −BWSO SITES	MISC.	BRONX/QUEENS/MANHATTAN	UNKNOWN
9912359	BOX 20341	715 PAHALEY ST	BROOKLYN	UNKNOWN
9909853	MANHOLE 4932	UNION AV	BROOKLYN	UNKNOWN
9908069	MANHOLE #4835	9TH ST & ROEBLING ST	BROOKLYN	11211

9907077	MANHOLE 58390	NECKING LAND AVE	BROOKLYN	UNKNOWN
9901648	MANHOLE 15165	MANHATTEN AVENUE	BROOKLYN	UNKNOWN
9901523	BROWNING FERRIS INDUSTRIE	115 CANGNEF STREET ?	BROOKLYN	UNKNOWN
9900252	MANHOLE #43243	WEST SIDE UNION AVE	BROOKLYN	UNKNOWN
9815288	MANHOLE 14244	29-39 HAYWOOD ST	BROOKLYN	UNKNOWN
9813982	SERVICE BOX 49009	SERVICE BOX 49009	BROOKLYN	UNKNOWN
9812720		2929 BAINBRIDGE AVE	BROOKLYN	UNKNOWN
9810573		MARINE COMPANY 6	BROOKLYN	UNKNOWN
9801951	432 DRAKES AVE CORP	432 DRAKES AVE	BROOKLYN	UNKNOWN
9709098	MEEKER AVE	MEEKER AVE	BROOKLYN	UNKNOWN
9503484	BQE - SOUTH LIE BRIDGE	BROOKLYN QUEENS EXPRESSWAY - SOUTH LIE B	BROOKLYN	UNKNOWN
9412310	217 HYLAND ST	217 HYLAND ST	BROOKLYN	UNKNOWN
9404558	NYC DOT- B'KLYN NAVY YARD	NYC DOT-B'KLYN NAVY YARD	BROOKLYN	UNKNOWN
9312482	NAVESINK RIVER CHANNEL #7	NAVESINK RIVER CHANNEL #7	BROOKLYN	UNKNOWN
9306596	BET.N. 13TH TO N. 6TH	BET.N. 13TH TO N. 6TH	BROOKLYN	11211
9306347	WHITE AVE - BLDG 114	WHITE AVE - BLDG 114	BROOKLYN	UNKNOWN
9305573	VARIOUS LOTS IN BROOKLYN	VARIOUS LOTS IN BROOKLYN	BROOKLYN	UNKNOWN
9214290	1200 NECK ROAD	1200 NECK ROAD	BROOKLYN	UNKNOWN
9210843	UNK	UNKNOWN	BROOKLYN	UNKNOWN
9007166	FORREST ST & DIVISION PL	FORREST ST & DIVISION PL	BROOKLYN	UNKNOWN
9004558	GUID AVE BRIDGE/BKLYN	GUID AVE BRIDGE	BROOKLYN	UNKNOWN
8906523	MCGUINNSS BLVD/BKLYN	MCGUINNESS BLVD	BROOKLYN	11222
8901311	METROPOLITAN AV STOP/BKLY	METROPOLITAN AVE STOP	BROOKLYN	UNKNOWN
8704318			BROOKLYN	UNKNOWN
8504687	BROOKLYN	BROOKLYN	BROOKLYN	UNKNOWN
8503785	BROOKLYN	BROOKLYN	BROOKLYN	UNKNOWN
8503558	BROOKLYN	BROOKLYN	BROOKLYN	UNKNOWN
8503309	SUNOCO BROOKLYN	BROOKLYN	BROOKLYN	UNKNOWN
8503172	BROOKLYN, KINGS	BROOKLYN, KINGS	BROOKLYN	UNKNOWN
8502862	GAS COMPANY	GAS COMPANY	BROOKLYN	UNKNOWN
8100041	SUBWAY-NYC	SUBWAY-NYC	BROOKLYN	UNKNOWN
7900928			BROOKLYN	UNKNOWN
7800995	UNKNOWN	MEEKER AVENUE	BROOKLYN	UNKNOWN
1103986	ON WATER	OFF GARRISON BEACH	BROOKLYN	UNKNOWN
1010737	SHEEN ON WATER	NEW TOWN CREEK	BROOKLYN	UNKNOWN
0805122	MANHOLE 72	ROEBLING STREET	BROOKLYN	UNKNOWN
0803914	LAFARGE CEMENT CO	UNKNOWN	BROOKLYN	UNKNOWN
0711377	3424 CLINTON ROAD	3424 CLINTON ROAD	BROOKLYN	UNKNOWN
0604221	BQE	EXIT 31 WEST BOUND	BROOKLYN	11211
0410681	TRANDFORMER VAULT #TM993	SUMNER AVE. AND DEKALB	BROOKLYN	UNKNOWN
0410369	RESIDENCE	57 BRAND STREET	BROOKLYN	UNKNOWN
0405797	VAULT #VS-7930	3411 JUIEER AVE	BROOKLYN	UNKNOWN
0405795	MANHOLE #12085	SW CORNER BEERY ST	BROOKLYN	UNKNOWN
0405023	VAULT # 3182	DEBEVOIST PLACE/LAFAYETTE	BROOKLYN	UNKNOWN
0313862	MAN HOLE #70603	MANHATTAN AVE & MESEROLE	BROOKLYN	UNKNOWN
0312773	SUBWAY SYSTEM-A LINE	TRACK A-3- COLUMN 792	BROOKLYN	UNKNOWN
0310941	MANHOLE 32221 FRONT OF	298 HAWKSIDE AVE	BROOKLYN	UNKNOWN
0211077	ALL OVER BROOKLYN	ALL OVER BROOKLYN	BROOKLYN	UNKNOWN
0210905	TM 70	METROPOLITAN AVE	BROOKLYN	11211
0106512	MANHOLE 64801	BROOKLYN QUEENS EXPRESSWAY	BROOKLYN	UNKNOWN
0104614	ON CORNER	GREENWICH ST/BUSHWICK AVE	BROOKLYN	UNKNOWN
0002339	MANHOLE 59642	BEDFORD AVE & EAST STREET	BROOKLYN	UNKNOWN
0313895		BARRICK ST S OF HARRISON	GREEN POINT	UNKNOWN
9904431		FLUSHING/QUARTER AVE	MANHATTAN	UNKNOWN
0913993	215348; BEDFORD AVENUE AND E 120TH STREET	BEDFORD AVENUE AND E 120TH STREET	NEW YORK	UNKNOWN
0814568	214383; BERRY ST AND 9TH ST	BERRY ST AND 9TH ST	NEW YORK	11211
0814253	212280; MCGUINESS BLVD.	MCGUINESS BLVD.	NEW YORK	11222
9103671	145 UNEDON ROAD/BKLYN	145 UNEDON ROAD	NEW YORK CITY	UNKNOWN
8900096	MANHATTAN AVE/BROOKLYN	MANHATTAN AVENUE	NEW YORK CITY	11222
8805083	1 DECIMAL ST/GREENPOINT	1 DECIMAL ST/GREENPOINT	NEW YORK CITY	11222

9206476	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
8504666	UNK	UNKNOWN	UNKNOWN	UNKNOWN

Hazardous Spills – MISC. SPILL CAUSES – Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9416745	GREENPOINT BROOKLYN	AMOCO TERMINAL TO STAGG		UNKNOWN
9404620	BROOKLYN EXPWY	UNDER B‘KLYN EXPWY	BRONX	UNKNOWN
1006871	COMMERCE PUMP STATION	COMMERCE RD	BRONX	UNKNOWN
0912126	FRIEDMAN RESIDENCE	252 CALHOUN AVE	BRONX	11211
1111553	CONSTRUCTION SITE – NO ADDRESS	TARGET BASIN CHANNEL – ALONG BELL PARKWA	BROOKLY	UNKNOWN
9914811	POLE #18923	MANOR RD/HOLLYWOOD AVE	BROOKLYN	UNKNOWN
9907586	VAULT 2488	45 DEBEVOISE PLACE	BROOKLYN	UNKNOWN
9902625	RUSSEL STREET	RUSSELL STREET	BROOKLYN	11222
9710120	NEWTON CREEK REG #B7	METROPOLITAN AV	BROOKLYN	UNKNOWN
9602674	CROSS HARBOR	BOX 182	BROOKLYN	UNKNOWN
9510467	DRIVER SERVICES CO	172 CARSON AVE	BROOKLYN	UNKNOWN
9510464	MANHOLE 64643	NORTH HENRY STREET	BROOKLYN	11222
9508762	PERGAMENT STORES	57 65TH AVE	BROOKLYN	UNKNOWN
9505873	METROPOLITAN AVENUE	METROPOLITAN AVENUE	BROOKLYN	11211
9505269	N. ELEANOR PL/WILLIAMBURG	MANHOLE #55915/ELEANOR PL	BROOKLYN	UNKNOWN
9409670	531 144TH STREET	531 144TH STREET	BROOKLYN	UNKNOWN
9314528	55 FULTON ST.	55 FULTON ST	BROOKLYN	UNKNOWN
9308950	JAMAICA REGULATOR #3	JAMAICA REGULATOR #3	BROOKLYN	UNKNOWN
9307635	KINGSLAND AVENUE	KINGSLAND AVENUE	BROOKLYN	UNKNOWN
9307209	HILLARY STREET	HILLARY STREET	BROOKLYN	UNKNOWN
9304944	1604 LOTS 28 & 37–44 PLUS	1604 LOTS 28 & 37–44 PLUS	BROOKLYN	UNKNOWN
9213983	1149 SLAVEY AVENUE	1149 SLAVEY AVENUE	BROOKLYN	UNKNOWN
9210698	2110 BOLTON STREET	2110 BOLTON STREET	BROOKLYN	UNKNOWN
9207289	LYNROCK NURSING HOME	LYNROCK NURSING HOME	BROOKLYN	UNKNOWN
9205306	909 AVE G	909 AVE G	BROOKLYN	UNKNOWN
9203867	280 ELDRIDGE ST	280 ELDRIDGE ST	BROOKLYN	UNKNOWN
9201537	241 N MAIN ST/TOP SHELF	241 N MAIN ST/TOP SHELF	BROOKLYN	UNKNOWN
8607666	CHEVRON STATION / BROOKLY	CHEVRON/DRUM	BROOKLYN	UNKNOWN
8606856			BROOKLYN	UNKNOWN
8603569	WILLIAMSBURG	WILLIAMSBURG	BROOKLYN	UNKNOWN
8601448	A DRIVE IN THE E. RIVER	400 YDS SOUTH NEWTOWN CK	BROOKLYN	11222
1207169	STREET	WHIKOSS AVE	BROOKLYN	UNKNOWN
1204507	GENERATOR LEAK AND FIRE (US POWER GEN)	1 WHALE COURT	BROOKLYN	UNKNOWN
1201439	BROOKLYN CRUISE TERMINAL	BROOKLYN CRUISE TERMINAL	BROOKLYN	UNKNOWN
1200646	HESS TERMINAL	CORTEZ RD AND CLAYTON ST	BROOKLYN	UNKNOWN
1113411	PORT NY/NJ	PORT	BROOKLYN	UNKNOWN
1103584	IN FRONT OF	184 BRIGGS AVE	BROOKLYN	UNKNOWN
1101447	POLE # 62699	2715 ROUND ST	BROOKLYN	UNKNOWN
1012925	ROADWAY	WASHINGTON PLAZA	BROOKLYN	UNKNOWN
1009644	ROADWAY	WASHINGTON PLAZA	BROOKLYN	UNKNOWN
1009174	222112; AINSLEY ST	AINSLEY ST	BROOKLYN	11211
1009088	221422; S NY AVE	S NY AVE	BROOKLYN	UNKNOWN
1008141	GOWANUS BAY/US POWER GEN	420 AND 2END AVE	BROOKLYN	UNKNOWN
1006504	NYCT LUBRICATING OIL SPILL	BROOKLYN AVE & E 71ST ST	BROOKLYN	UNKNOWN
1005877	UNDERGROUND TRANSFORMER VAULT #2705	49–59 DEBEVOISE PLACE	BROOKLYN	UNKNOWN
1005512	NEWTOWN CREEK–BUCKEYE PIPE	ACROSS FROM THE BUCKEYE	BROOKLYN	UNKNOWN
1002941	ON ROADWAY	ON BQE BETWEEN	BROOKLYN	UNKNOWN
0914424	218248; YORK STREET AND GREEN LANE	YORK STREET AND GREEN LANE	BROOKLYN	UNKNOWN
0912508	REGULATOR OH–6	BROOKLYN ARMY TERMINAL	BROOKLYN	UNKNOWN
0808967	DRUM RUN	RYERSON AVE	BROOKLYN	UNKNOWN
0807442	BROOKLYN CRUISE TERMINAL	1 CRUIZE WAY	BROOKLYN	UNKNOWN
0806633	NYCT BUS	AVE J AND FULTON ST	BROOKLYN	UNKNOWN
0805706	MANHOLE #724	YORK ST/ GREEN LANE	BROOKLYN	UNKNOWN
0804294	NYCDEP FACILITY	NEWTOWN CREEK	BROOKLYN	UNKNOWN
0712922	BREE AVE AND BRIGGS AVE	BREE AVE AND BRIGGS AVE	BROOKLYN	UNKNOWN

0712067	11 ST CONDUIT TUNNEL O/W SEPERATOR	11 & BERGEN. ASH ST & MCGUINESS	BROOKLYN	UNKNOWN
0706451	ONE PINT FROM AERIAL XFMR ON POLE	IN FRONT OF 230-50 EDGEWOOD AVE	BROOKLYN	UNKNOWN
0702015	ATLANTIC SUBWAY	ATLANTIC/PACIFIC	BROOKLYN	UNKNOWN
0701967	SPRAGUE ENERGY TRUCK	2449 HALLWAY AVE	BROOKLYN	UNKNOWN
0701086	FORMER BUS YARD	CARLTON AVE	BROOKLYN	UNKNOWN
0701011	IN THE STREET	KENTH AVE	BROOKLYN	UNKNOWN
0611241	HESS TERMINAL	PORT STREET	BROOKLYN	UNKNOWN
0610884	PARKING LOT	909 PROMOTIONAL DEV. IND	BROOKLYN	UNKNOWN
0607043	DEP FACILITY	WEST SIDE OF DIGESTER BUI	BROOKLYN	UNKNOWN
0606084	UNKNOWN	UNKNOWN	BROOKLYN	UNKNOWN
0602892	MANHOLE#67572	BERGEN ST & CRESENT AVE	BROOKLYN	UNKNOWN
0600561	EXIT 34	ROUTE 278 SOUTHBOUND	BROOKLYN	11222
0508865	GOWANAS EXPRESSWAY	MEDIAN MILE 3RD/6TH EXIT	BROOKLYN	UNKNOWN
0503928	MANHOLE 23700	PALISADES AVE	BROOKLYN	UNKNOWN
0406210	MANHOLE #4443	FRONT OF KINGS LAND AVE	BROOKLYN	UNKNOWN
0307966		QUEENS CO. HOSPITAL	BROOKLYN	UNKNOWN
0301260	ON NEWTOWN CREEK	1 MILE FROM MANHATTAN AVE	BROOKLYN	UNKNOWN
0211699	IN THE 11ST ST CONDUT	BROOKLYN SIDE OF TUNNEL	BROOKLYN	UNKNOWN
0210902	RESIDENTS	2526 HERBERT STREET	BROOKLYN	11222
0207970	OPPOSITE	1630 SEMARKS AVE	BROOKLYN	UNKNOWN
0104610	CORONA YARD	UNKNOWN	BROOKLYN	UNKNOWN
0010826	MANHOLE #13119	S/O MASPETH AV	BROOKLYN	11211
9416392	WILLIAMSBURG AVE	WILLIAMSBURG AVENUE	GREENPOINT	11211
0814187	211097; NASSAU ST AND NASSAU PL	NASSAU ST AND NASSAU PL	NEW YORK	UNKNOWN
8902723	BROOKLYN/QUEENS EXPWY	BROOKLYN/QUEENS EXPWY	NEW YORK CITY	UNKNOWN
8810118	BLDG 3 SUB STATION/BKLYN	BLDG 3 SUB STATION	NEW YORK CITY	UNKNOWN
8807156	WILLIAMBURG/KOSCIUSKO	WILLIAMSBURG/KOSCIUSKO	NEW YORK CITY	UNKNOWN
8709143	BKLYN QUEENS EXPWY/BKLYN	BKLYN QUEENS EXRESSWAY	NEW YORK CITY	UNKNOWN
0814069	AMBROSE CHANNEL LOWER BAY	UNK	NEW YORK CITY	UNKNOWN
0705363	FIVE GAL LEAK FROM AERIAL XFMR AT	20-30 MASPETH AVENUE	QUEENS	UNKNOWN

Petroleum Bulk Storage Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
2-237280	1160 REALTY CO	1160 REALTY CO	BROOKLYN	UNKNOWN
2-289442	412 AVENUE E	412 AVENUE E	BROOKLYN	UNKNOWN
NY03182	DEPT OF PARKS		BROOKLYN	UNKNOWN
NY08951	SECO MANAGEMENT	B KLYN NY	BROOKLYN	UNKNOWN

Hazardous Waste Generation or Transport Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NYP004021192	CONSOLIDTED EDISON CO	#46211 103 LEONARD		UNKNOWN
NYP004022265	CONSOLIDATED EDISON CO	MH71504 MCGUINNESS & INDEP ST		UNKNOWN
NYP004023107	CONSOLIDATED EDISON CO	RODNEY & 40 PL		UNKNOWN
NYP004026936	CONSOLIDATED EDISON CO	V4798 GRAND & CLINTON		UNKNOWN
NYD982791675	MEEKER AVENUE TASK FORCE	MEEKER AVE	BROOKLYN	UNKNOWN
NYD986961571	NYSDOT	MEEKER AVE	BROOKLYN	UNKNOWN
NYD986973691	NYSDOT - CONTRACT BRC253A	60 BROADWAY 7TH FL	BROOKLYN	11211
NYN200000070	WEST 135TH ST MARINE TRANSFER STATION	WEST 135TH ST & NEWTOWN CREEK	BROOKLYN	UNKNOWN
NYP000788471	USEPA	ERRD	BROOKLYN	UNKNOWN
NYP000927988	CONSOLIDATED EDISON	LEONARDA STREET	BROOKLYN	UNKNOWN
NYP000928275	CONSOLIDATED EDISON	875 KAGERS AVE	BROOKLYN	UNKNOWN
NYP000928846	CONSOLIDATED EDISON	MH 64217-BROOKLYN GRAND	BROOKLYN	UNKNOWN
NYP000929257	CONSOLIDATED EDISON	5 MARKS ST	BROOKLYN	UNKNOWN
NYP000930156	CON ED - MH1115	E/S LEE AVE	BROOKLYN	11211
NYP003660081	NYCDEP	BQE WEST	BROOKLYN	UNKNOWN
NYP004057972	CONSOLIDATED EDISON	MH21248	BROOKLYN	UNKNOWN
NYP004059010	CONSOLIDATED EIDSON	N/S	BROOKLYN	UNKNOWN
NYP004070264	CONSOLIDATED EDISON	MH12645	BROOKLYN	UNKNOWN
NYP004074357	CONSOLIDATED EDISON	MH61205	BROOKLYN	UNKNOWN
NYP004076185	CONSOLIDATED EDISON	MH7746	BROOKLYN	UNKNOWN

NYP004082954	CONSOLIDATED EDISON		40313 FULTON ST & GLASSOW ST	BROOKLYN	UNKNOWN
NYP004136180	CONSOLIDATED EDISON		MH24778-E21ST CONCLAVE I	BROOKLYN	UNKNOWN
NYP004138608	CONSOLIDATED EDISON		S/E/C WILLOUGHBY LANE	BROOKLYN	UNKNOWN
NYP004183331	CONSOLIDATED EDISON MH42983		MH42983 323 TANAKING AVE	BROOKLYN	UNKNOWN
NYP004192154	CONSOLIDATED EDISON MH27077		MH27077	BROOKLYN	UNKNOWN
NYP004194494	CONSOLIDATED EDISON MH44254		MH44254 PARK AVE & SACKMAN ST	BROOKLYN	UNKNOWN
NYP004194890	CONSOLIDATED EDISON MH58388		HEGEMAN AVE & HERZL AVE	BROOKLYN	UNKNOWN
NYP004195525	CONSOLIDATED EDISON		CYPRESS AVE & STATE ST.	BROOKLYN	UNKNOWN
NYP004198099	CONSOLIDATED EDISON		F/O 1802 & 1809 AVE & 618 ST	BROOKLYN	UNKNOWN
NYP004279865	CON EDISON		SW COR SHORE PKWY & BAY LN	BROOKLYN	UNKNOWN
NYR000091413	NYSDOT CONTRACT D258425		BQE CONNECTOR RAMP TO	BROOKLYN	UNKNOWN
NYR000102681	ARLON ENTERPRISES LLC		927 ARLON PL	BROOKLYN	11211
NYR000140855	DLX INDUSTRIES		1970 INDUSTRIAL PARK ROAD	BROOKLYN	UNKNOWN
NY0000010363	NYCDOT		N/S	N/S	UNKNOWN
NYR000067843	NEW YORK CITY DEPT PARKS & RECREATION		11 ROSENGREV AVE	N/S	UNKNOWN
NYD986973691	NYCDOT		WILLIAMSBURG	NEW YORK	UNKNOWN
NYD987005980	NYCDOT		WILLIAMSBURG	NEW YORK	11211
NYP000956961	VERIZON NEW YORK INC MANHOLE		LEANORD AVE	NEW YORK	UNKNOWN
NYP000958751	VERIZON NEW YORK INC. MANHOLE		MEEKER AVENUE	NEW YORK	UNKNOWN
NYP000958777	VERIZON NEW YORK INC. MANHOLE		MEEKER AVENUE	NEW YORK	UNKNOWN
NYP000960666	VERIZON NEW YORK INC.		N/E FOURTH ST MANHOLE MANHOLE	NEW YORK	UNKNOWN
NYP004040804	CONSOLIDATED EDISON		V3711-UNION ST	NEW YORK	UNKNOWN
NYP004043659	CONSOLIDATED EDISON		V52488-45 DEBEVOISE PL	NEW YORK	UNKNOWN
NYP004049482	CONSOLIDATED EDISON		4 IRVING PLACE RM 300	NEW YORK	UNKNOWN
NYP004054946	CONSOLIDATED EDISON		V5971-LEXINGTON AVE	NEW YORK	UNKNOWN
NYP004120424	CONSOLIDATED EDISON		TM2403-N/S MESSERLE E/O 73RD	NEW YORK	UNKNOWN
NYP004141438	CONSOLIDATED EDISON		4 IRIVNG PL RM 828	NEW YORK	UNKNOWN
NYP000930925	CONSOLIDATED EDISON CO		V3032-1965 LAFAYETTE	QUEENS	UNKNOWN
NYP004006672	CONSOLIDATED EDISON		V3487 - NEWELL AVE	QUEENS	UNKNOWN
NYP004015590	CONSOLIDATED EDISON		V 2720 - N 6TH & ROOSEVELT SQ	QUEENS	11211
NYP004016242	CONSOLIDATED EDISON		V9379-32 HARRISON	QUEENS	UNKNOWN
NYP004045456	CONSOLIDATED EDISON		V2488-45 DEBEVOISE PL	QUEENS	UNKNOWN

Wastewater Discharges

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NYU200022	NYCDEP OMNIBUS IV ORDER			UNKNOWN
NYU900073	NEW YORK CITY TRANSIT AUTH.			UNKNOWN

Air Releases

FACILITY ID	FACILITY NAME		STREET	CITY	ZIP
3604700161	MOT/ARMY		NO STREET ADDRESS	BROOKLYN	UNKNOWN
NY047X4UE	SUPERIOR FIBRES INC	KINGS (B	NO STREET ADDRESS	NO CITY NAME	UNKNOWN
NY047XAXP	SHARMONT REALTY	KINGS (B	NO STREET ADDRESS	NO CITY NAME	UNKNOWN

Hazardous waste codes presented in individual Toxic Information Profiles are defined below.

B002 Petroleum oil or other liquid containing 50 ppm or greater of PCBs but less than 500 ppm PCBs. This includes oil from electrical equipment whose PCB concentration is unknown, except for circuit breakers, reclosers and cable.

B007 Other PCB Wastes including contaminated soil, solids, sludges, clothing, rags, and dredge material.

D001 Solid waste that exhibits the characteristic of ignitability, but is not listed under any other hazardous waste code.

D002 Solid waste that exhibits the characteristic of corrosivity, but is not listed under any other hazardous waste code.

D003 Solid waste that exhibits the characteristic of reactivity, but is not listed under any other hazardous waste code.

D005 Barium

D007 Chromium

D008 Lead

D009 Mercury

P075 Pyridine, 3−(1−methyl−2−pyrrolidinyl)−, (S)−, & salts

Source: U. S. Environmental Protection Agency

How Toxic Site Locations Are Mapped

Toxics Targeting maps toxic site locations on a digital version of the U. S. Census map or those used by local authorities using addresses and map coordinates provided by site owners/operators or government agencies. In order to allow site locations to be verified independently, the information used to map each site is presented in the first section of each Toxic Site Profile, along with a description of the mapping technique used and any address corrections that were made in order to locate toxic sites with incomplete or inadequate site location information. The mapping process is explained below.

Map Identification Number: 12

Site Name: Acme World Manufacturing, Inc.

Site Address: 55 Main Street

Anytown, NY 11797

MAP LOCATION INFORMATION

Site location mapped by:

Address Matching

1) Most toxic sites are mapped by matching addresses provided by site owners/operators or government agencies with locations on a digital version of the street or parcel map. These site locations are identified with the method used to map them.

Note: Some sites have an address match location and a map coordinate location. Both locations are mapped because they can be equally correct.

or Map Coordinate

2) Some toxic sites are located using map coordinates provided by site owners/ operators or government agencies. These site locations are identified "map coordinate." Map coordinates for Toxic Wastewater Discharges, Toxic Release Inventory sites and Major Oil Storage Facilities should be considered suspect.

or Manual Mapping

or Site Visit

3) Incomplete addresses or map coordinates require some site locations to be determined by commercial street maps (manual mapping), site visits, map coordinates from other databases and address location services. Application of any of these methods is identified accordingly.

ADDRESS CHANGE INFORMATION

Revised Street: NO CHANGE

Revised zip code: NO CHANGE

4) Site addresses are sometimes corrected to eliminate obvious errors that prevent sites from being mapped. All address corrections are noted here.

Information Source Guide

Toxics Targeting's Environmental Reports contain government and other information compiled on 21 categories of reported known or potential toxic sites. Each toxic site database is described below with information detailing a) the source of the information, b) the date when each database is covered to and c) when *Toxics Targeting* obtained the information..

1) **National Priority List for Federal Superfund Cleanup:** Toxic sites nominated for cleanup under the Federal Superfund program. Annual compilation of special two-page detailed profiles of NPL sites. Also includes delisted NPL sites.
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency.[1]
Data attributes updated from: 2/1/2013. Data obtained by Toxics Targeting: 2/1/2013.
New Facilities updated through: 2/1/2013. Data obtained by Toxics Targeting: 2/1/2013.

2) **Inactive Hazardous Waste Disposal Site Registry:** New York State database that maintains information and aids decision making regarding the investigation and cleanup of toxic sites. The Registry's data includes two-page profiles noting site name, ID number, description, classification, cleanup status, types of cleanup, owner information, types and quantities of contaminants, and assessment of health and environmental problems. Also included are sites that qualify for possible inclusion on the Registry. These Registry Qualifying sites may or may not be on the Site Registry.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]
Data attributes updated through: 11/28/2012. Data obtained by Toxics Targeting: 11/28/2012.
New Facilities updated to: 11/28/2012. Data obtained by Toxics Targeting: 11/28/2012.

3) **Corrective Action Activity (CORRACTS):** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]
Data attributes updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.
New facilities updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.

4) **CERCLIS:** Toxic sites listed in the Federal Comprehensive Environmental Response, Compensation and Liability Information System. Includes Active and No Further Remedial Action Planned (NFRAP) sites.
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency.[1]
Data attributes updated through: 11/28/2011. Data obtained by Toxics Targeting: 12/21/2011.
New Facilities updated through: 11/28/2011. Data obtained by Toxics Targeting: 12/21/2011.

5) **Brownfield Programs:** NYS programs for sites that are abandoned, idled or under-used industrial and/or commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.
ASTM required.* Source: New York State Department of Environmental Conservation.[2]
Data attributes updated through: 11/28/2012. Data obtained by Toxics Targeting: 11/28/2012.
New Facilities updated to: 11/28/2012. Data obtained by Toxics Targeting: 11/28/2012.

(a) **Brownfield Cleanup Program (BCP)**
(b) **Voluntary Cleanup Program (VCP)**
(c) **Environmental Restoration Program (ERP)**

6) **Solid Waste Facilities:** a compilation of the following 2 databases:
(a) **NYS Solid Waste Registry:** which includes, but is not limited to, landfills, incinerators, transfer stations, recycling centers.
ASTM required.* Fannie Mae required.** Source: New York State Dept. of Environmental Conservation.[2]
Data updated to: 12/31/2001. Data obtained by Toxics Targeting: 3/16/2002.

(b) **1934 Solid Waste Disposal Site in New York City:** which includes sites operated by municipal authorities circa 1934. Source: City of New York Department of Sanitation (1984). The Waste Disposal Problem in New York City: A Proposal For Action.

7) **RCRA Hazardous Waste Treatment, Storage or Disposal Facility Databases:**
(a) **Manifest Information:** New York State database of hazardous waste facilities and shipments regulated by the DEC's Bureau of Hazardous Waste Facility Compliance pursuant to NYS Law and the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

New facilities updated through: 1/17/2013. New facilities obtained by Toxics Targeting: 2/14/2013.
Manifest transactions data updated to: 1/17/2013. Manifest transactions data obtained by Toxics Targeting: 2/14/2013.

(b) **RCRA Notifier & Violations Information:** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]
New facilities updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.
Data attributes updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.

8) **Spills Information Database:** Spills reported to the DEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from Petroleum Bulk Storage Regulations) or 6 NYCRR Section 595.2 (from Chemical Bulk Storage Regulations). This database includes both *active* and *closed* spills.
ASTM required.* Fannie Mae.** Source: NYS Department of Environmental Conservation.[2]

New spills through: 1/29/2013 New spills data obtained by Toxics Targeting: 1/29/2013
Spill attribute data through: 1/29/2013 Spill attribute data obtained by Toxics Targeting: 1/29/2013

Active spills: paperwork not completed. Closed spills: paperwork completed.
Both active and closed spills may or may not have been cleaned up (see Date Cleanup Ceased in spill profiles).

9) **Major Oil Storage Facilities:** NYS database of facilities licensed pursuant to Article 12 of the Navigation Law, 6NYCRR Parts 610 and 17NYCRR Part 30, such as onshore facilities or vessels, with petroleum storage capacities equal to or greater than four hundred thousand gallons. **Tank & other data withheld by NYSDEC as of 4/1/2002**.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

Data updated through: 2/13/2013. Data obtained by Toxics Targeting: 2/13/2013.

10) **Petroleum Bulk Storage Facilities:** a compilation of local and state databases of aboveground and underground petroleum storage tank facilities.

(a) **NYS Petroleum Bulk Storage Database:** This includes all New York State counties except Cortland, Nassau, Rockland, Suffolk, and Westchester. ASTM required.* Fannie Mae required.**
Source: NYS Department of Environmental Conservation.[2]
New facilities updated through: 11/21/2012. Data obtained by Toxics Targeting: 11/21/2012.
Tank data updated through: 2/13/2013. Data obtained by Toxics Targeting: 2/13/2013.

(b) **New York City Fire Department Tank Data:** **Data has been withheld by the NYC Fire Dept.**
Source: New York City Fire Department. Data obtained by Toxics Targeting: 2/18/1997

11) **RCRA Hazardous Waste Generators and/or Transporters Databases:**

(a) **Manifest Information:** New York State database of hazardous waste facilities and shipments regulated by the NYS Department of Environmental Conservation's Bureau of Hazardous Waste Facility Compliance pursuant to New York State Law.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

New facilities updated through: 1/17/2013. New facilities obtained by Toxics Targeting: 2/14/2013.
Manifest transactions data updated to: 1/17/2013. Manifest transactions data obtained by Toxics Targeting: 2/14/2013.

(b) **RCRA Notifier & Violations Information:** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]

New facilities updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.
Data attributes updated through: 2/12/2013. Data obtained by Toxics Targeting: 2/12/2013.

12) **Chemical Bulk Storage Facilities:** New York State database of facilities compiled pursuant to 6NYCRR Part 596 that store regulated substances listed in 6NYCRR Part 597 in aboveground tanks with capacities greater than 185 gallons and /or in underground tanks of any size. **Tank & other data withheld by NYSDEC as of 4/1/2002**.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]
Data updated through: 2/13/2013. Data obtained by Toxics Targeting: 2/13/2013.

13) **Historic New York City Utility Facilities (1898 to 1950):** An inventory of selected power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites identified in various historic documents, maps and annual reports of New York utility companies, including: Sanborn Fire Insurance Maps of NYC (1898-1950); Consolidated Edison Co. Annual Reports (1922-1939); Consolidated Edison Co. Map: "Boroughs of Manhattan and the Bronx Showing Distribution Mains of the New York Edison Co.," (1922); and Consolidated Edison document: "Generating and Annex Stations," (1911).

14) **Hazardous Substance Waste Disposal Site Study:** NYS database of waste disposal sites that may pose threats to public health or the environment, but could not be remediated using monies from the Hazardous Waste Remedial Fund.
Source: New York State Department of Environmental Conservation.[2]
Data updated to: 5/16/2000. Data obtained by Toxics Targeting: 5/16/2000.

15) **Toxic Release Inventory (TRI):** Federal database of manufacturing facilities required under Section 313 of the Federal Emergency Planning and Community Right-to-Know Act to report releases to the air, water and land of any specifically listed toxic chemical. See Fannie Mae requirement** below.
Source: U. S. Environmental Protection Agency.[1] / NYS Department of Environmental Conservation[2]
Data updated through: 3/8/2004. Data obtained by Toxics Targeting: 3/25/2004

16) **Toxic Wastewater Discharges (Permit Compliance System):** Federal database of discharges of wastewater to surface waters and groundwaters. See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency.[1]
Data updated through: 6/17/2004. Data obtained by Toxics Targeting: 7/19/2004.

17) **Air Discharge Facilities:** EPA AIRS database containing address information on each air emission facility and the type of air pollutant emission it is. Compliance information is also provided on each pollutant as well as the facility itself.
See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency[1]
Data updated through: 11/24/1999. Data obtained by Toxics Targeting: 1/6/2000

18) **Civil Enforcement & Administrative Docket:** This database is the U. S. EPA's system for tracking administrative and civil judiciary cases filed on behalf of the agency by the Department of Justice. Fannie Mae required.**
Source: U. S. Environmental Protection Agency.[1]
New Sites through: 10/14/1999.
Data updated through: 10/14/1999. Data obtained by Toxics Targeting: 11/18/1999.

19) **New York City Environmental Quality Review (CEQR) – E Designation Sites:** These sites are parcels assigned a special environmental ("E") designation under the CEQR process. E designation requires specific protocols that must be followed. Source: New York City Department of Planning[3]
Data updated through: 11/13/2012. Data obtained by Toxics Targeting: 12/3/2012

20) **Emergency Response Notification System (ERNS):** Federal database of spills compiled by the Emergency Response Notification System. On-site searches only.
ASTM required.* See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency.[1]
Data updated through: 1/31/2000. Data obtained by Toxics Targeting: 2/15/2000

21) **Remediation Site Borders:** Remediation site borders reported by NYSDEC.
Source: New York State Department of Environmental Conservation.[2]
Updated through: 4/8/2009. Data obtained by Toxics Targeting: 7/21/2009.

* American Society of Testing Materials: Standard Practice on Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-05).
** Fannie Mae's Part X Environmental Hazards Management Procedures specify 1.0 mile searches for "any state or Federal list of hazardous waste sites (e.g. CERCLIS, HWDMS etc.)." Searches for the property and adjacent properties are specified for "chemical manufacturing plants," "obvious high risk neighbors engaging in storing or transporting hazardous waste, chemicals or substances" and "...any documented or visible evidence of dangerous waste handling... (e.g. stressed vegetation, stained soil, open or leaking containers, foul fumes or smells, oily ponds, etc." Searches for property and adjacent properties can include sites up to a quarter mile away (W. Hayward, Director, Multi-Family Business Planning and Control, Fannie Mae, personal communication, 5/94).

[1]U. S. Environmental Protection Agency, 290 Broadway, NY, NY 10007-1866.

[2]NYS Department of Environmental Conservation, 625 Broadway, Albany, NY 12233.

[3]New York City Department of City Planning, 22 Reade St, New York, NY 10007-1216

APPENDIX E

Sanborn Fire Insurance Maps

415 Manhattan Avenue

415 Manhattan Avenue

Brooklyn, NY 11222

Inquiry Number: 3532161.1

March 01, 2013

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

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

Certified Sanborn® Map Report

3/01/13

Site Name:
415 Manhattan Avenue
415 Manhattan Avenue
Brooklyn, NY 11222

Client Name:
Laurel Env. Assoc., Ltd.
53 West Hills Road
Huntington Station, NY 11746

EDR Inquiry # 3532161.1

Contact: Carla Sullivan

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Laurel Env. Assoc., Ltd. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 415 Manhattan Avenue
Address: 415 Manhattan Avenue
City, State, Zip: Brooklyn, NY 11222
Cross Street:
P.O. # 12-409
Project: 415 Manhattan Avenue
Certification # 3353-4156-A9D4

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	

Sanborn® Library search results
Certification # 3353-4156-A9D4

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

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

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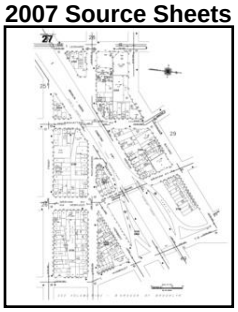

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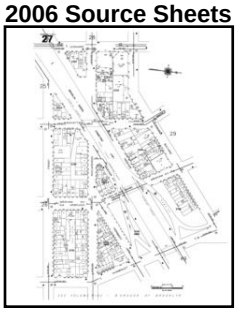
Volume 4, Sheet 29

2006 Source Sheets



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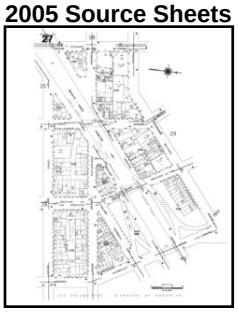

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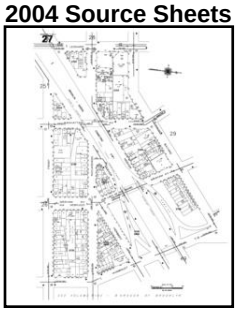

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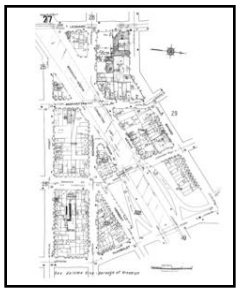

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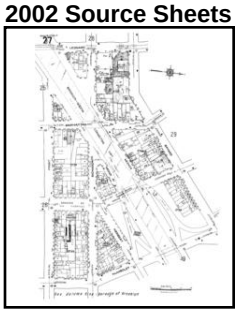

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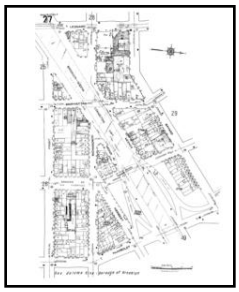

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1995 Source Sheets

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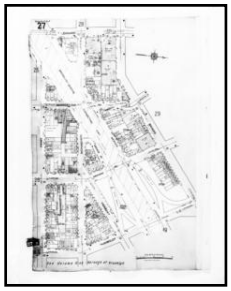

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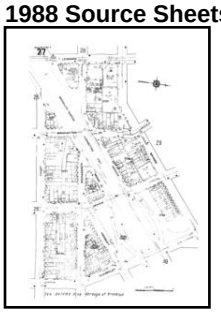

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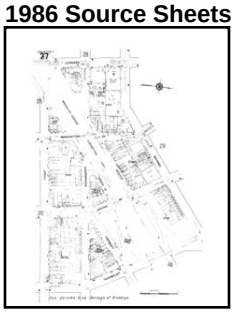

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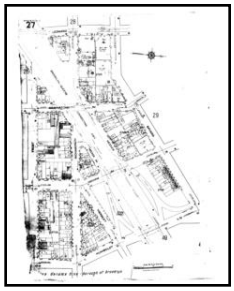

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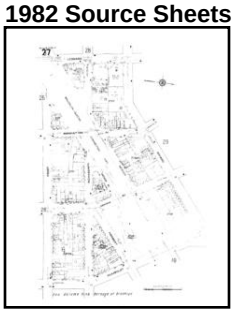

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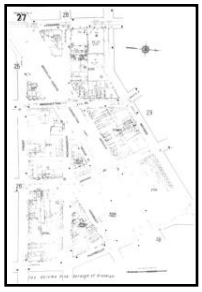

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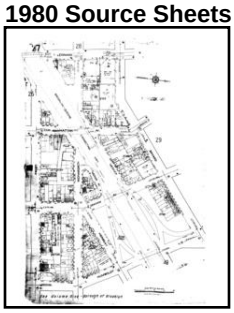

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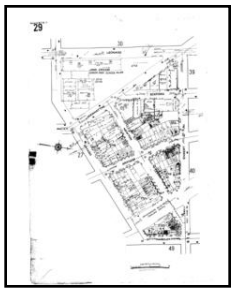

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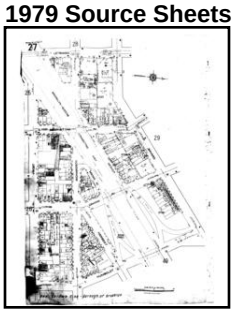

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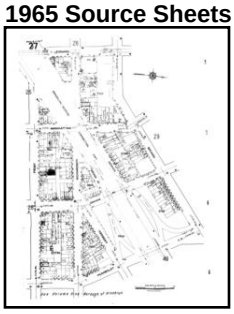

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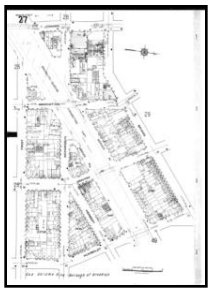

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1916 Source Sheets

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1887 Source Sheets

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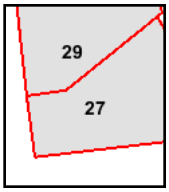

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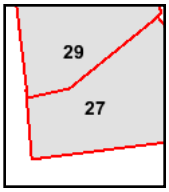

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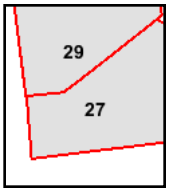

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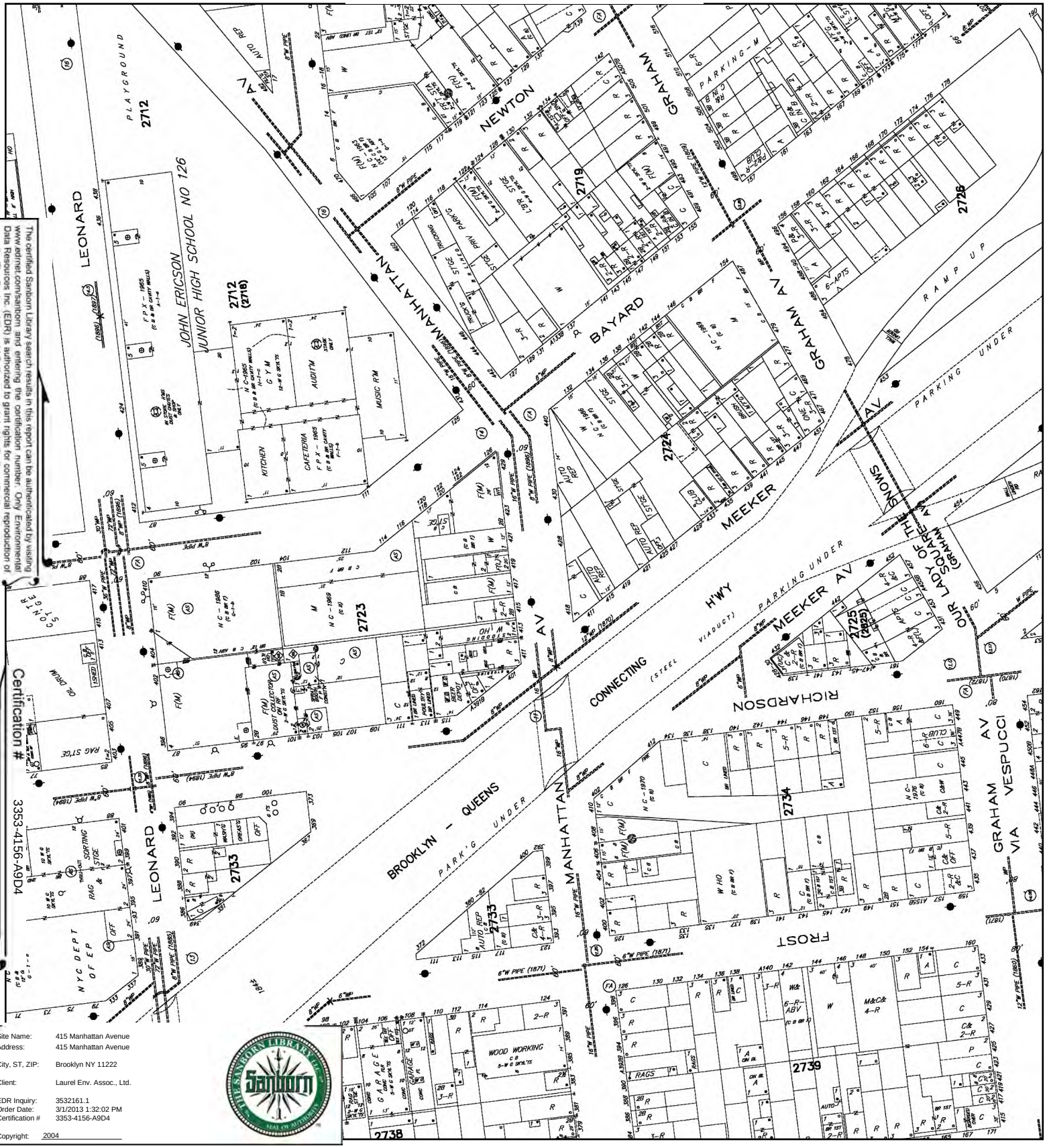

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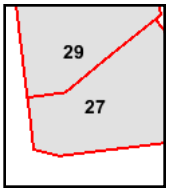

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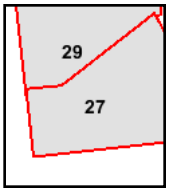

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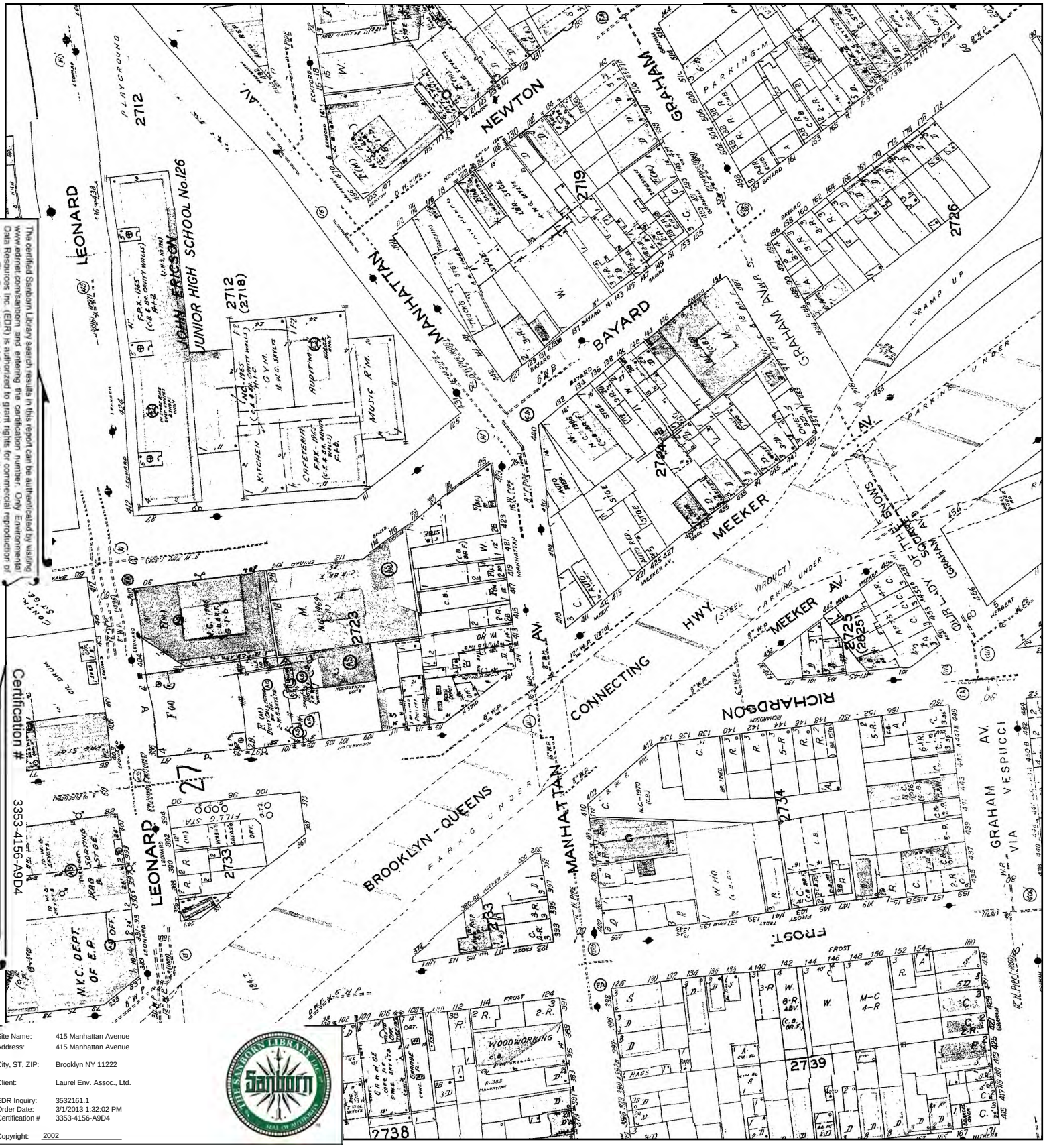

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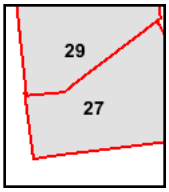

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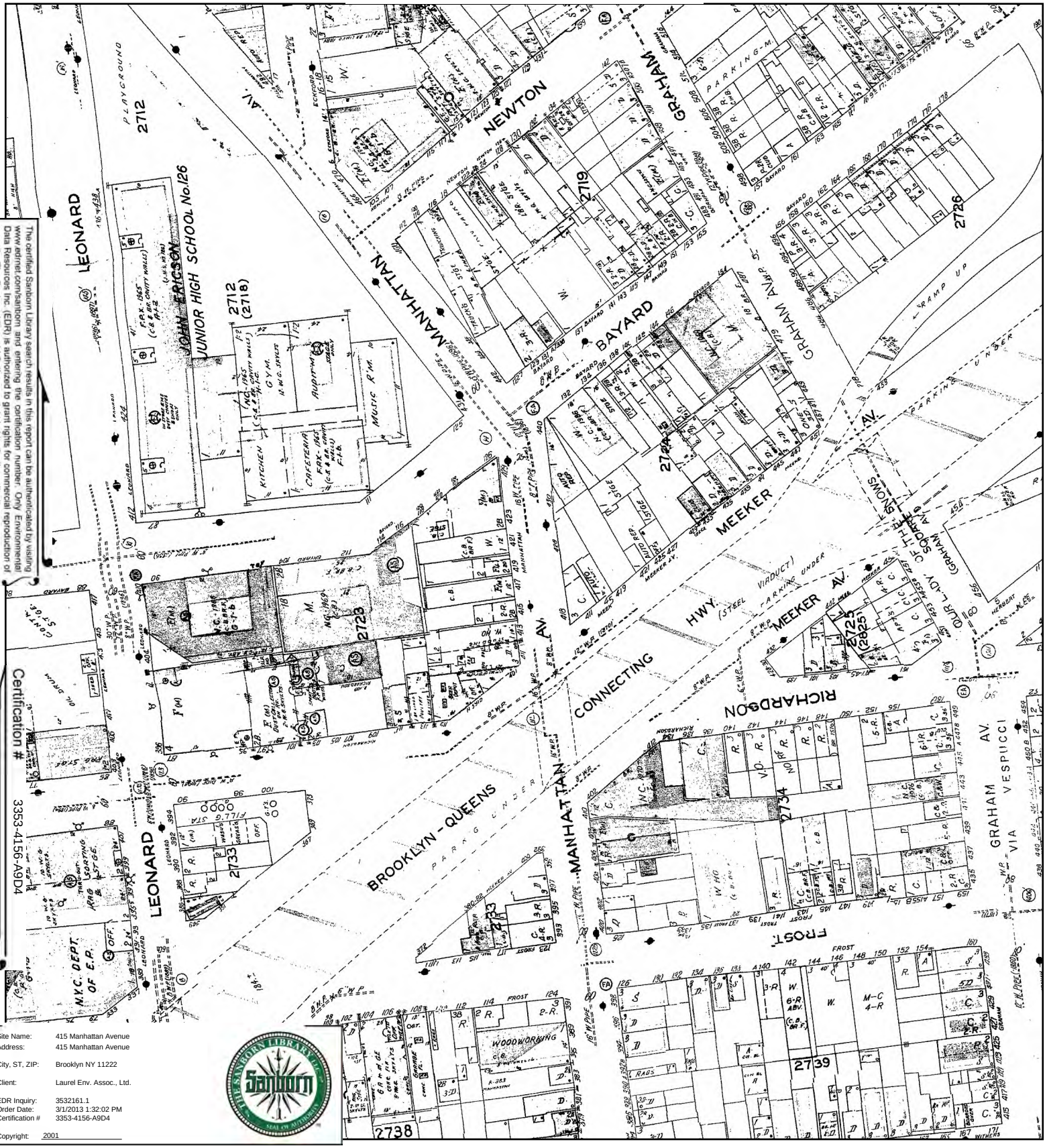

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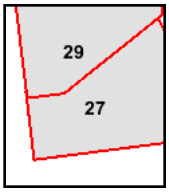

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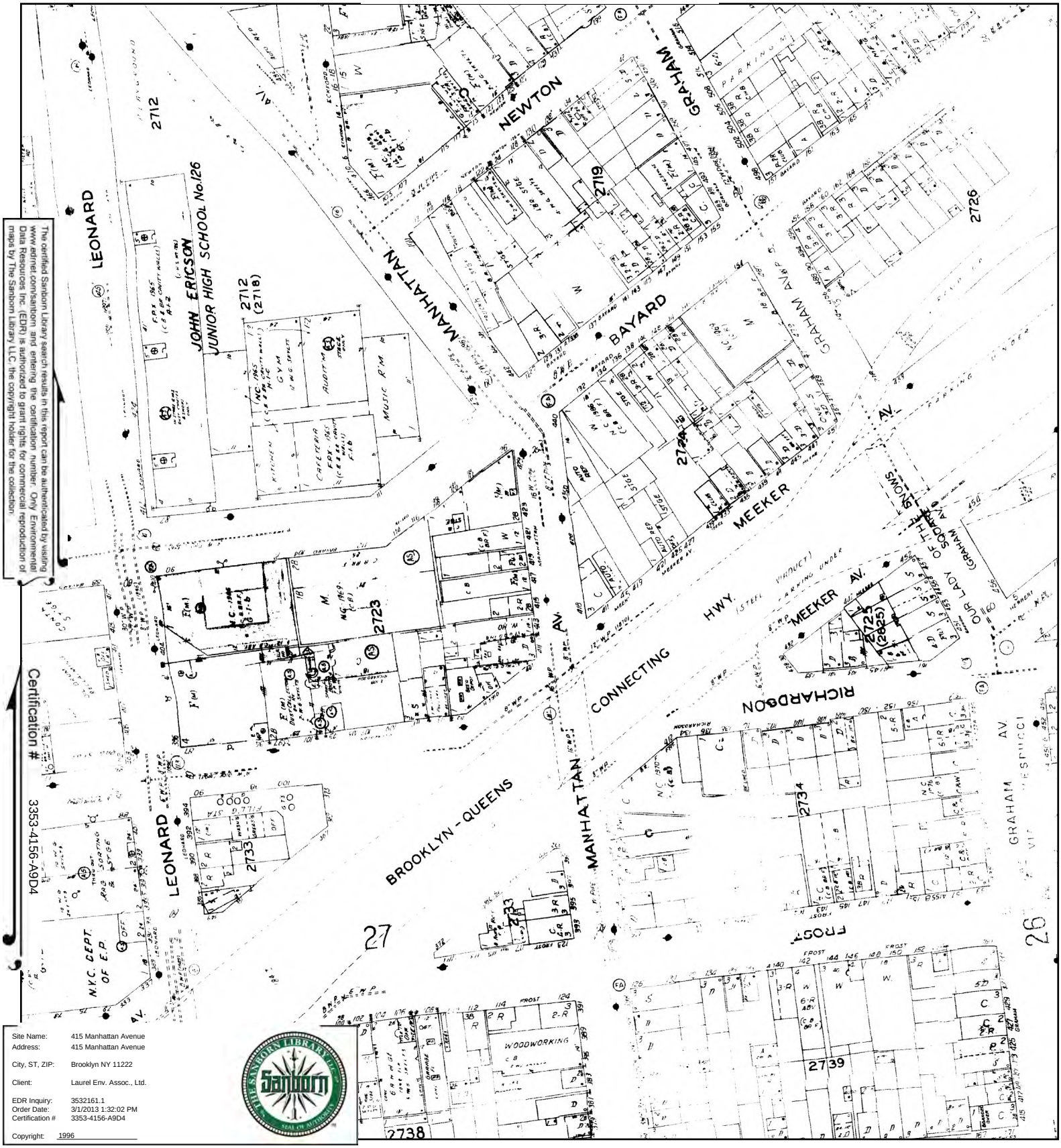

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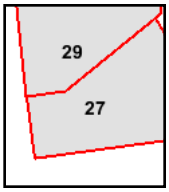

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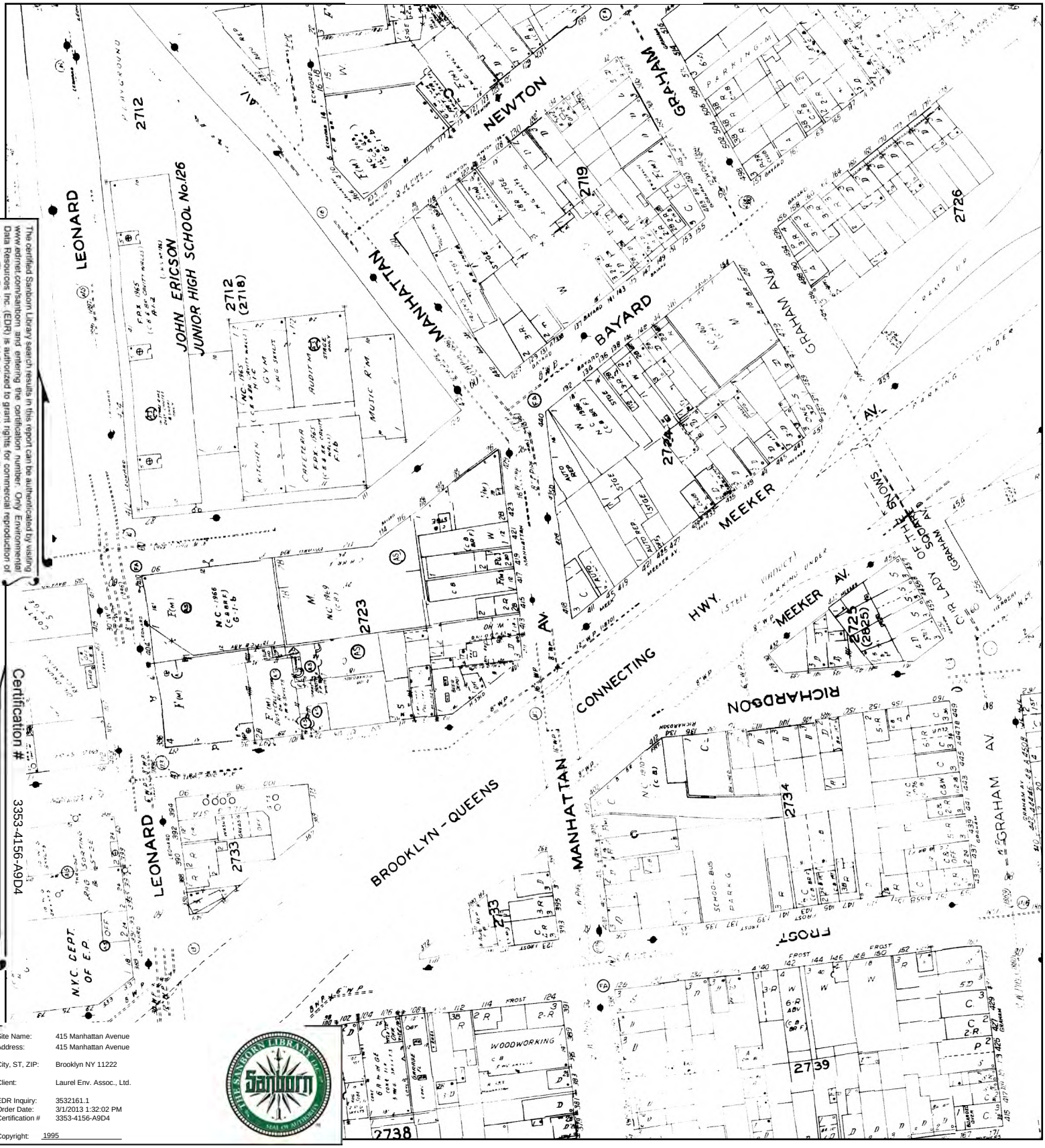

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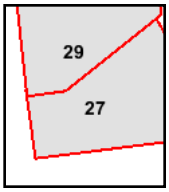

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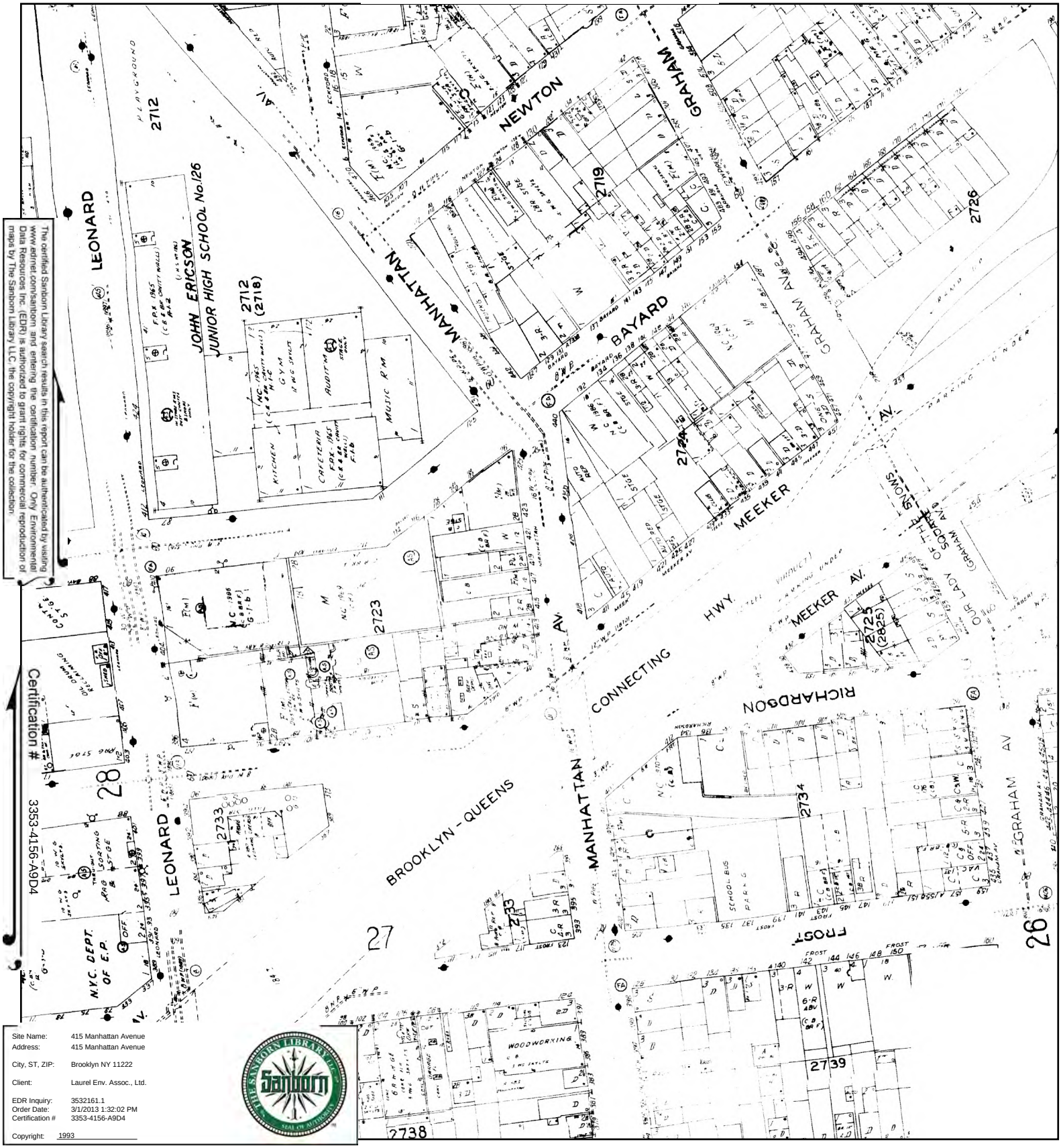

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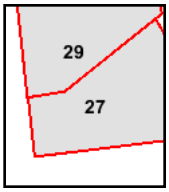

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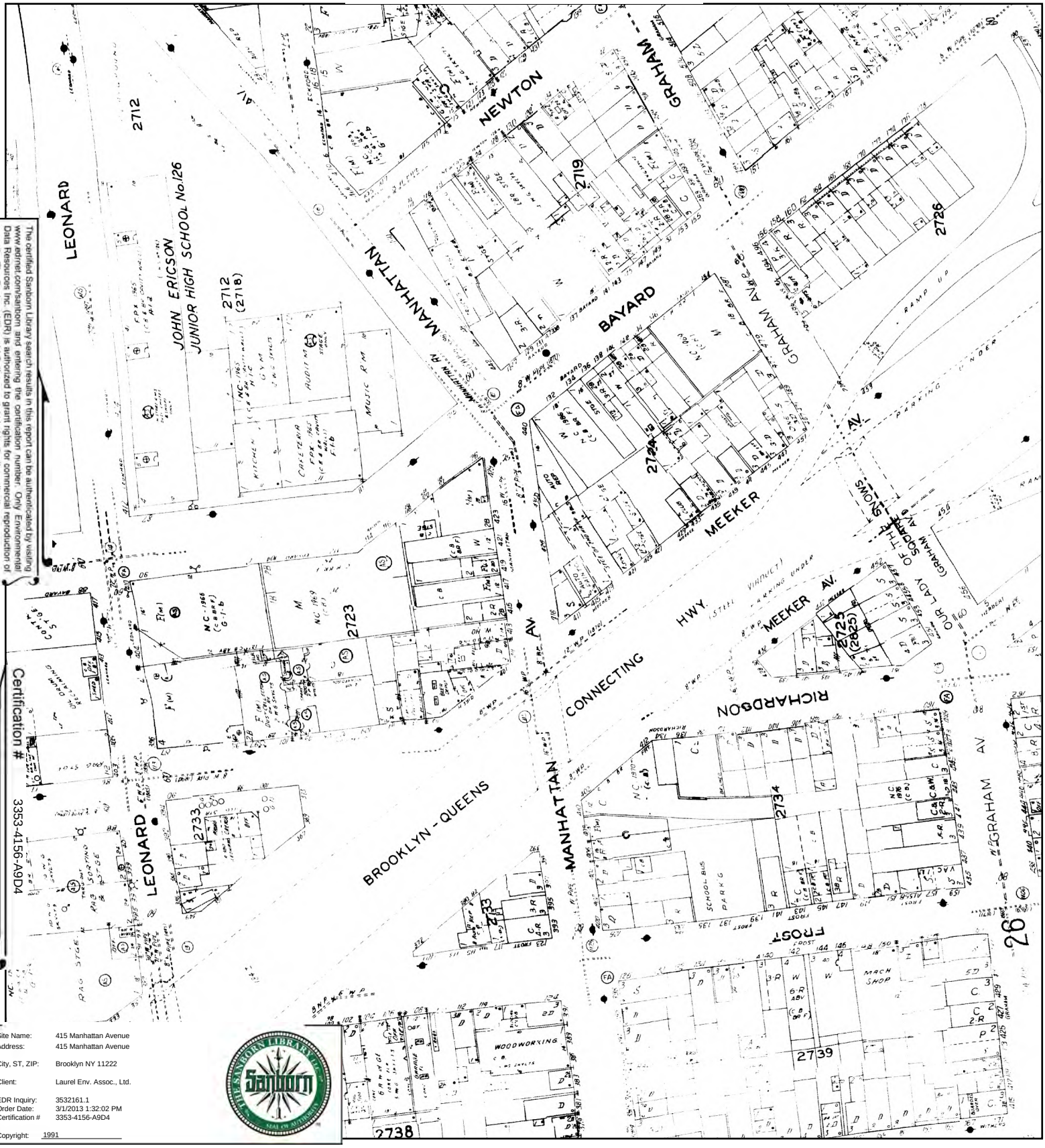

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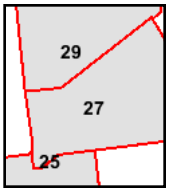

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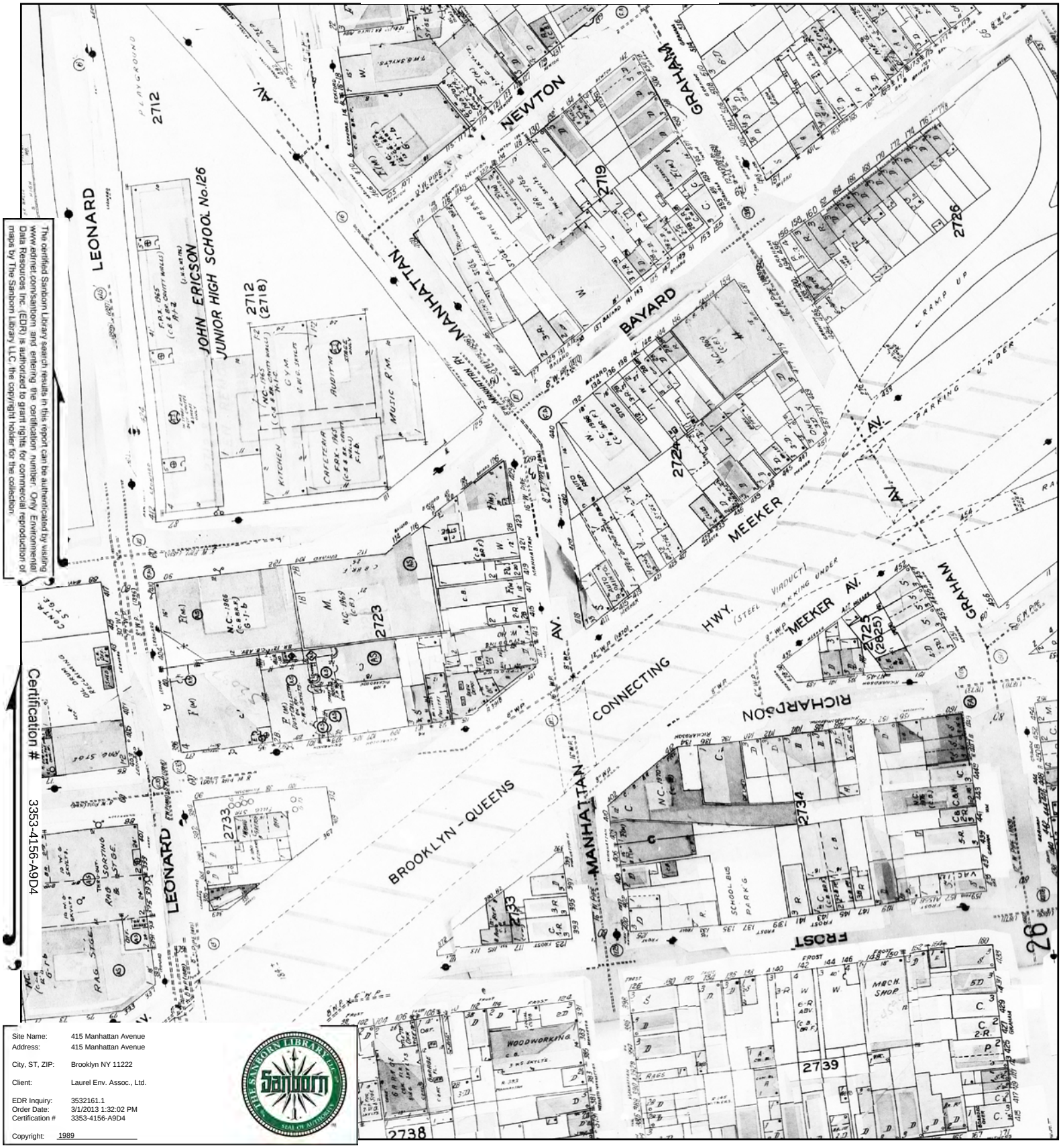

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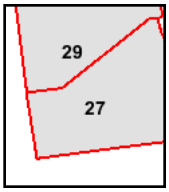

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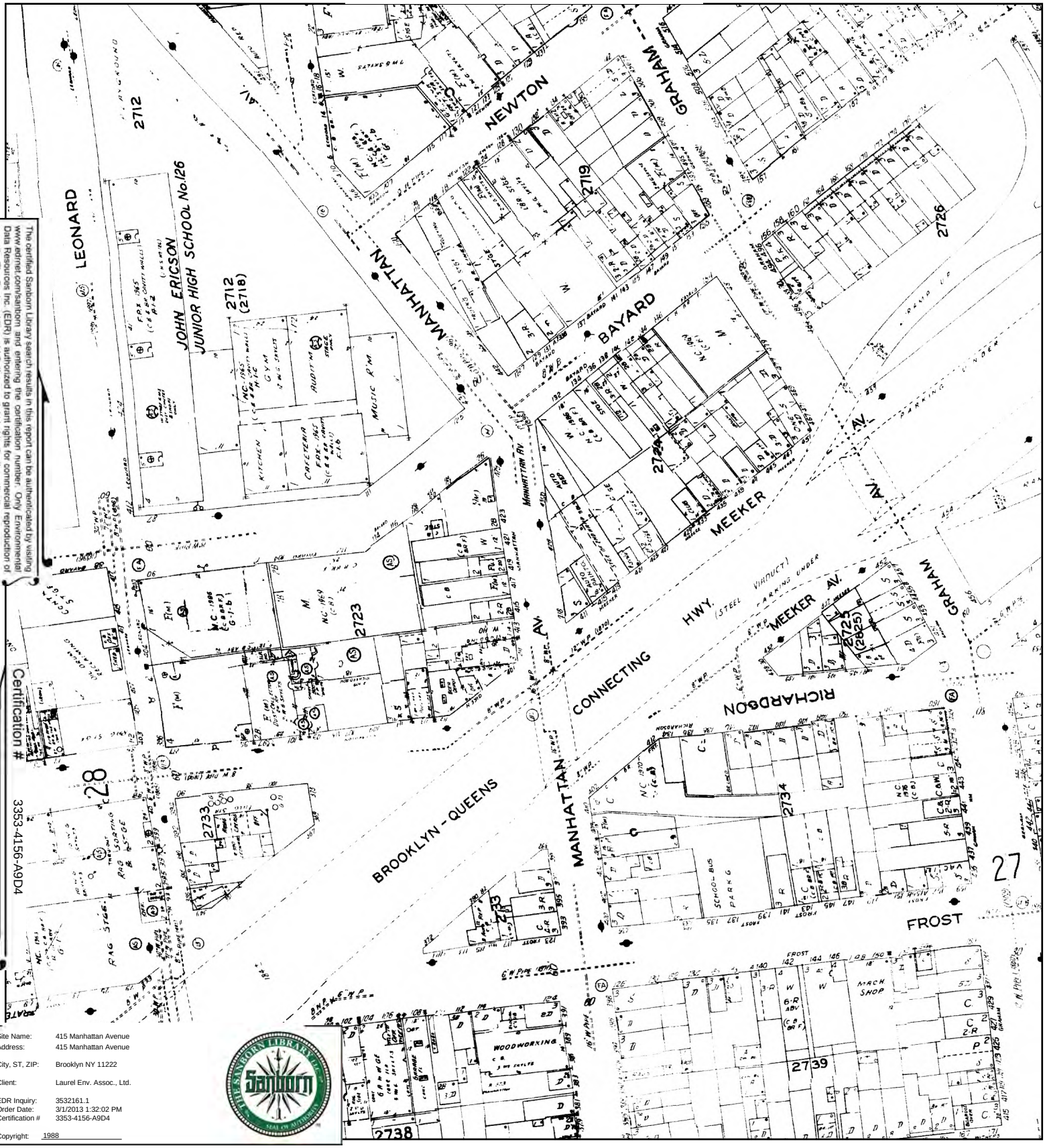

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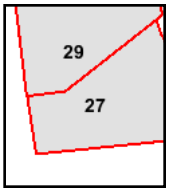

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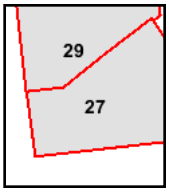

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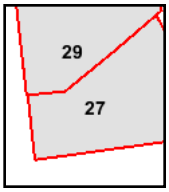

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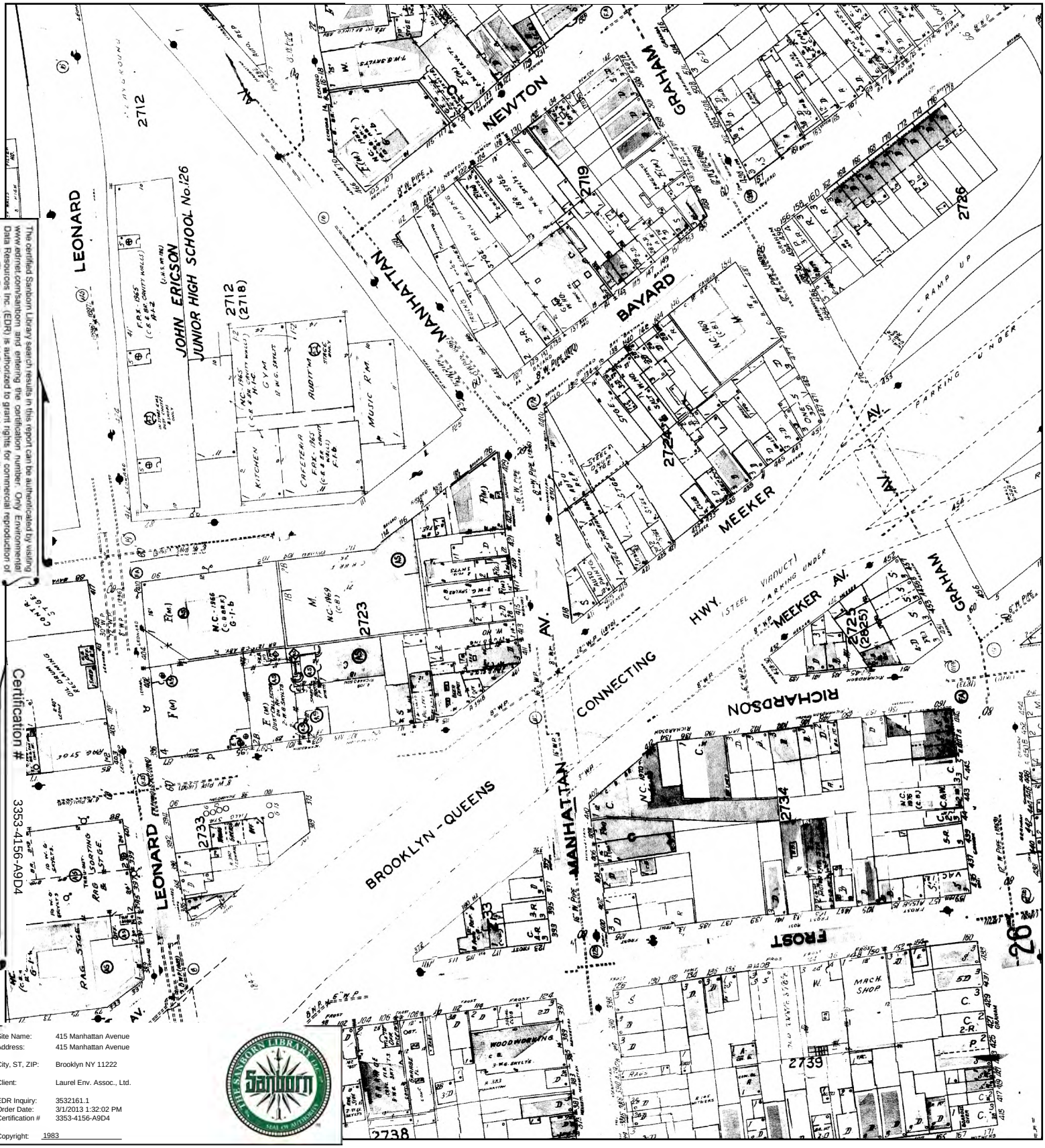

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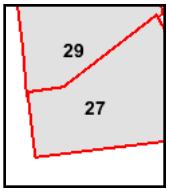

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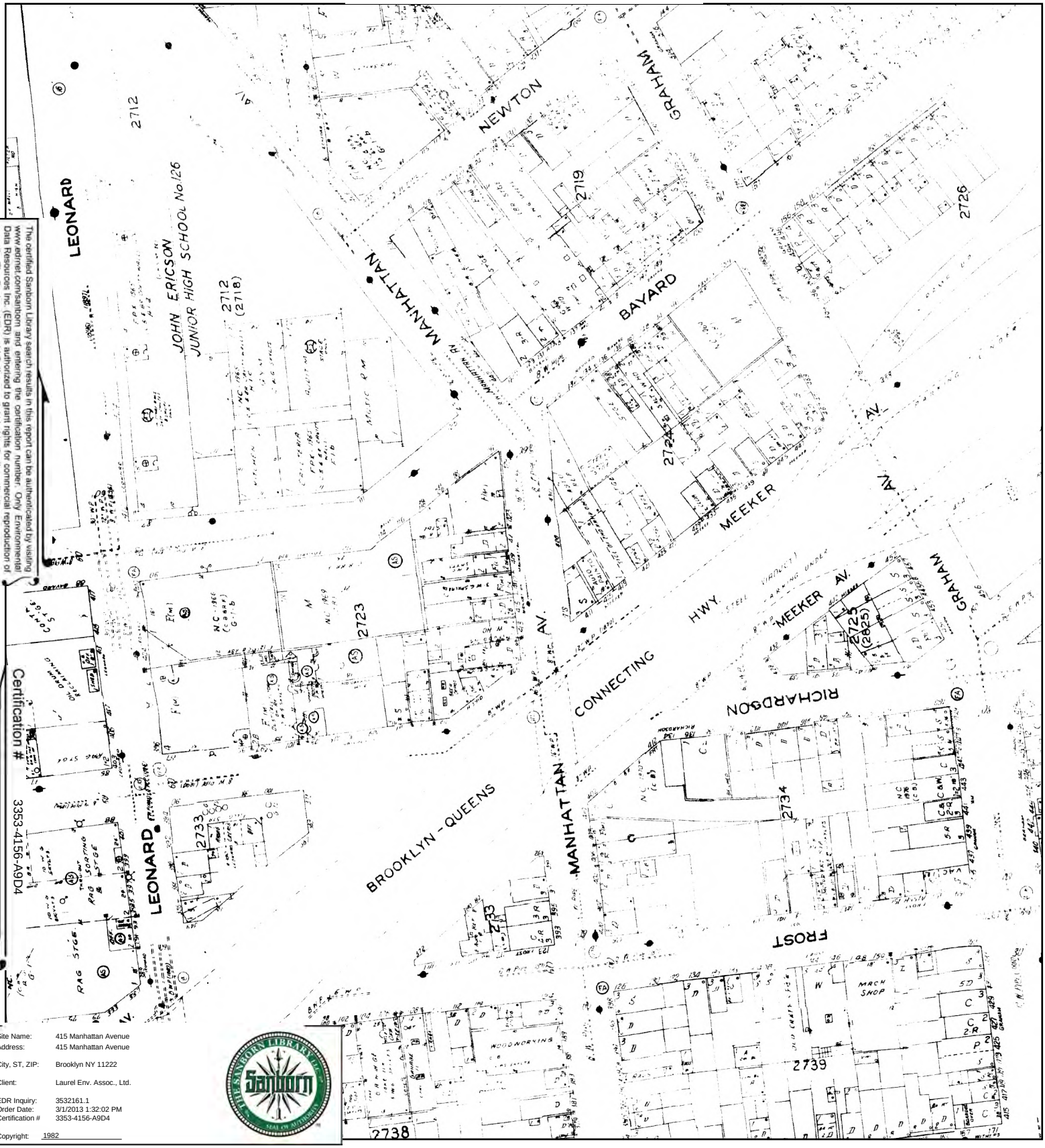

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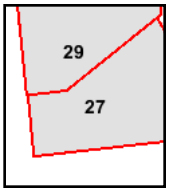

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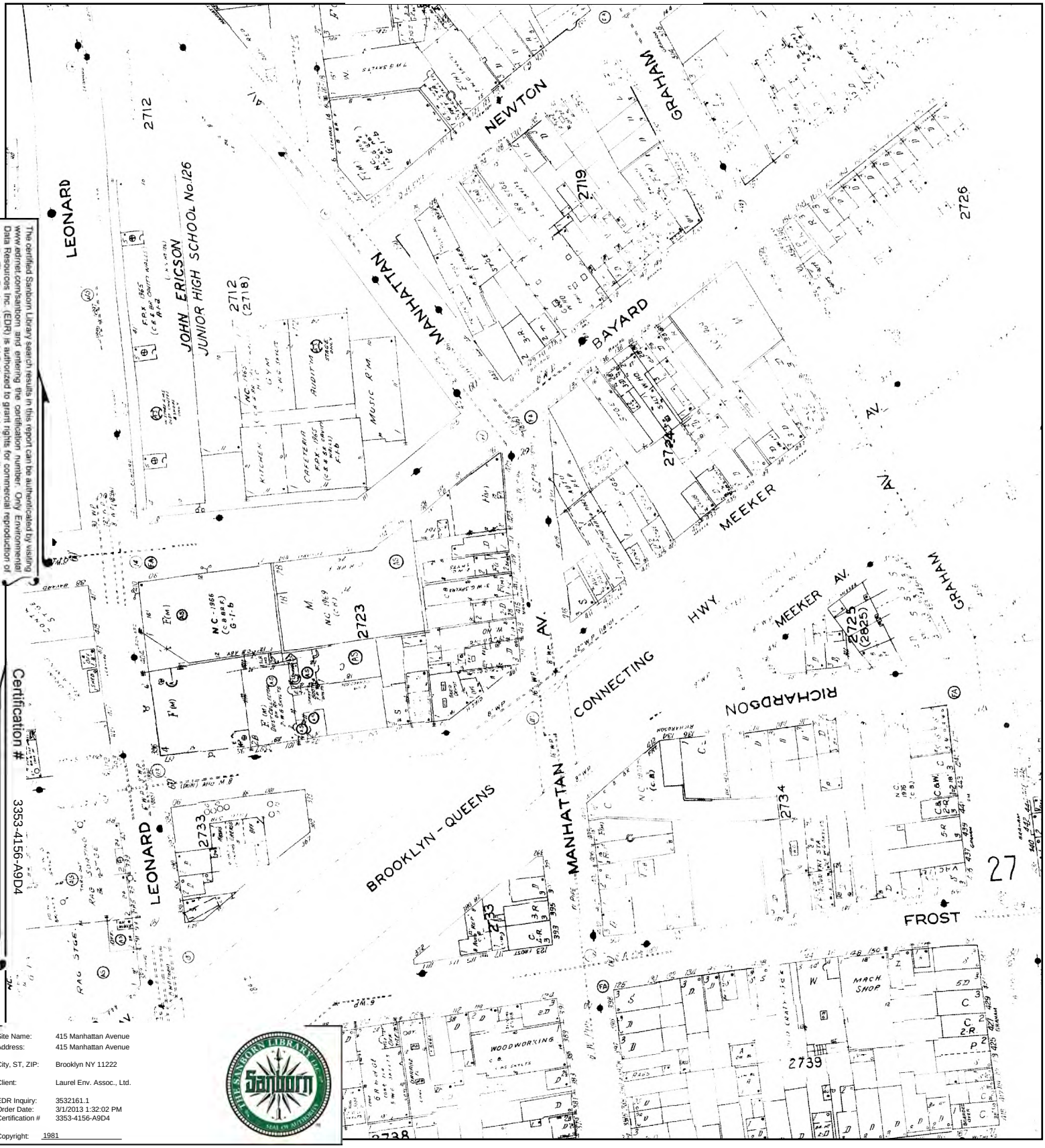

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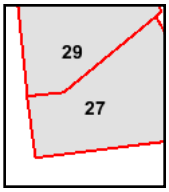

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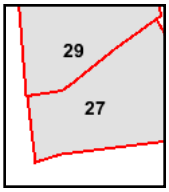

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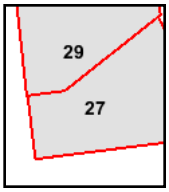

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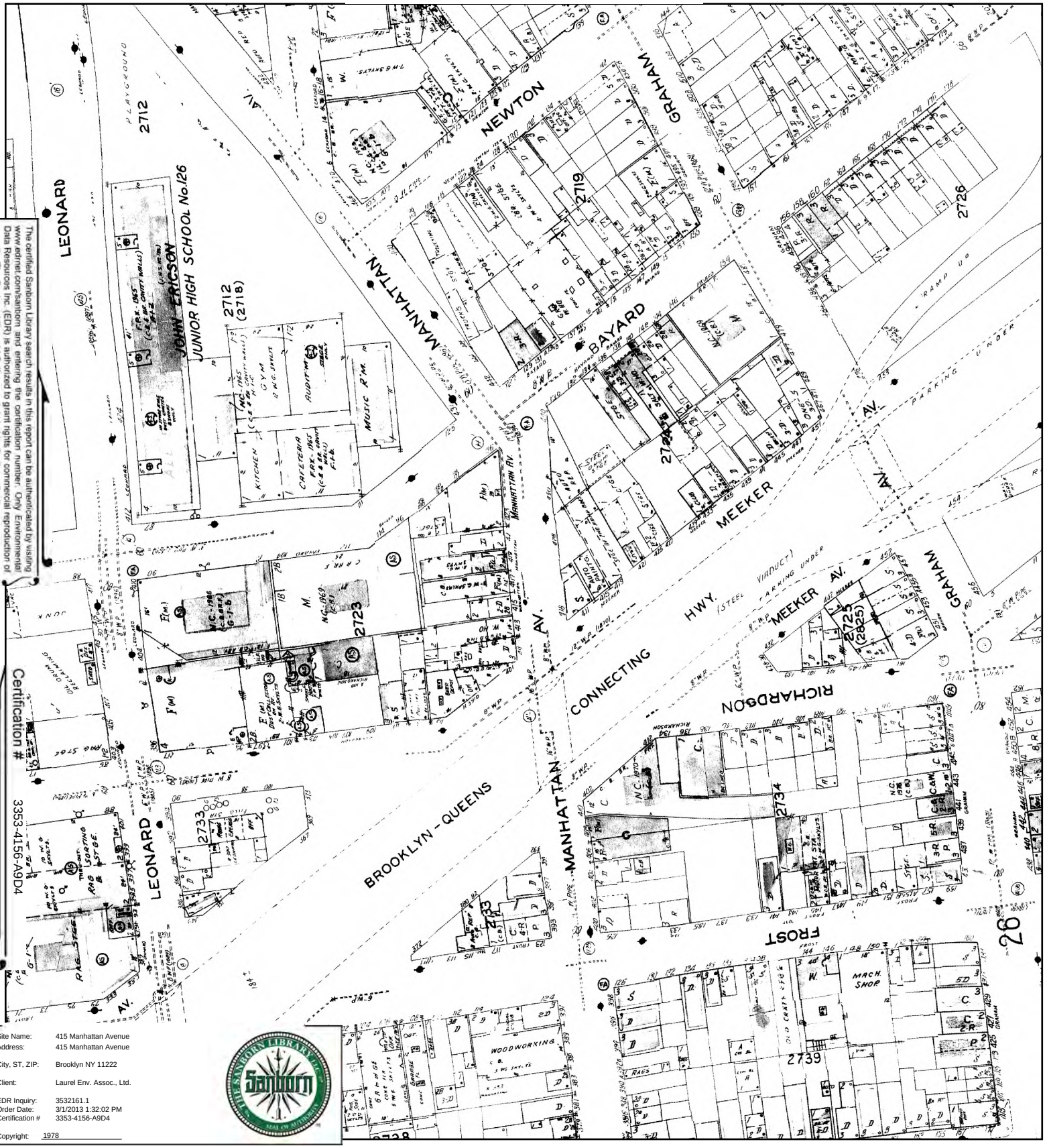

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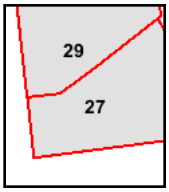

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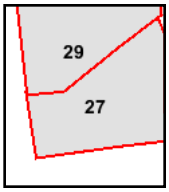

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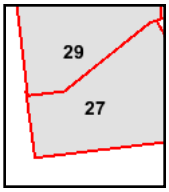

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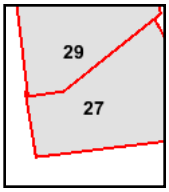

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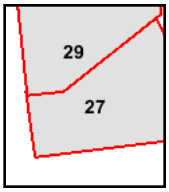

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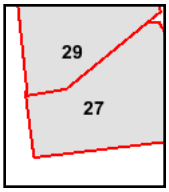

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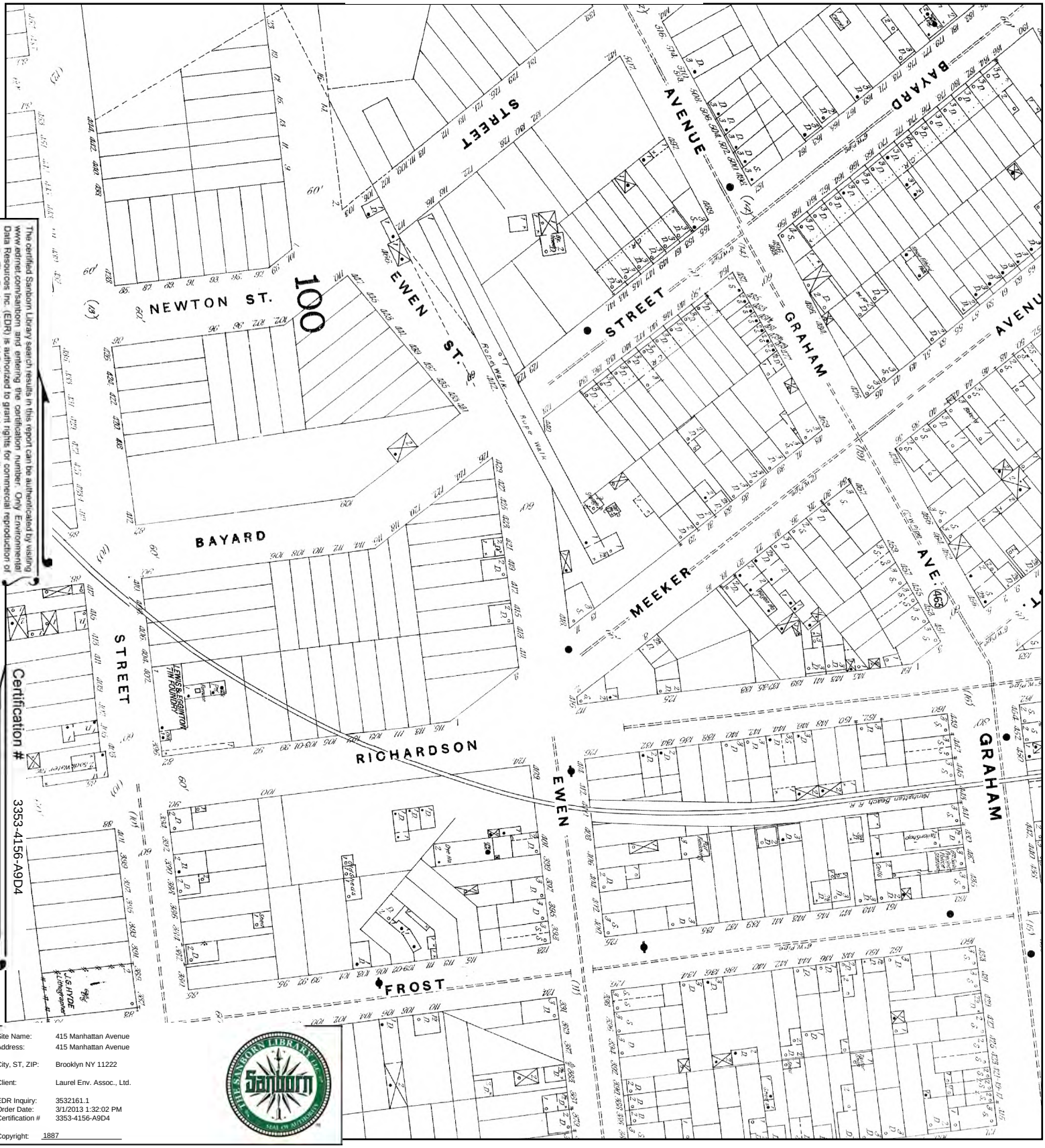

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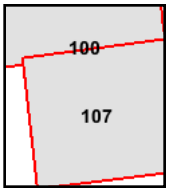

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APPENDIX F

Historical Aerial Photographs

Year: 1994
Brooklyn, NY

NAPP
Year: 1991
Brooklyn, NY

Year: 1984
Brooklyn, NY

APPENDIX G

City Directories

415 Manhattan Avenue
415 Manhattan Avenue
Brooklyn, NY 11222

Inquiry Number: 3530381.1
February 26, 2013

The EDR-City Directory Abstract

Environmental Data Resources Inc

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

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SECTION

Executive Summary

Findings

City Directory Images

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

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EXECUTIVE SUMMARY

DESCRIPTION

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

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

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

RESEARCH SUMMARY

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

Year	Source	TP	Adjoining	Text Abstract	Source Image
2012	Cole Information Services	-	X	X	-
2007	Cole Information Services	-	X	X	-
2005	Hill-Donnelly Corporation	X	X	X	-
2000	Cole Information Services	X	X	X	-
1997	NYNEX	X	X	X	-
1992	NYNEX Informantion Resource Co.	X	X	X	-
1985	NYNEX Information Resources Company	X	X	X	-
1980	New York Telephone	-	X	X	-
1976	New York Telephone	X	X	X	-
1973	New York Telephone	-	X	X	-
1970	New York Telephone	X	X	X	-
1965	New York Telephone	-	X	X	-
1960	New York Telephone	X	X	X	-
	New York Telephone Company	X	X	X	-
1949	New York Telephone Company	-	X	X	-
1945	New York Telephone Company	-	X	X	-
1940	New York Telephone Company	-	X	X	-
1934	R. L. Polk & Co.	-	-	-	-
1928	New York Telephone	X	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

415 Manhattan Avenue
Brooklyn, NY 11222

FINDINGS DETAIL

Target Property research detail.

MANHATTAN

415 MANHATTAN

Year	Uses	Source
1928	CACIOPPO JOS ELCTRN	New York Telephone
	SPIRO ALLEN R	New York Telephone

MANHATTAN AVE

415 MANHATTAN AVE

Year	Uses	Source
2005	h Plecenik Alexander	Hill-Donnelly Corporation
	h Wiacek Augustyn	Hill-Donnelly Corporation
	Wiacek Ewa & Augstyn	Hill-Donnelly Corporation
2000	ALEXANDER PLECENIK	Cole Information Services
	ANIELA SLAVOV	Cole Information Services
	AUGUST WICEK	Cole Information Services
	RYSZARD CLESIELSKA	Cole Information Services
1997	ALEKSANDROWTCZ Stanislaw	NYNEX
	POMPA Gustav	NYNEX
	SLAVOV Aniela	NYNEX
1992	SLAVOV ANIELA	NYNEX Informantion Resource Co.
	TALALAJ CZESLAW	NYNEX Informantion Resource Co.
1985	CASANOVA S M	NYNEX Information Resources Company
	METZGER E	NYNEX Information Resources Company
1976	CASANOVA STEPHANIE	New York Telephone
1970	Bianculli M	New York Telephone
1960	BIANCULLI MARY M	New York Telephone
	MAROTTA ALBERT	New York Telephone
	Bianculli Mary M	New York Telephone Company
	Marotta Albert	New York Telephone Company

FINDINGS

ADJOINING PROPERTY DETAIL

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

MANHATTAN

411 MANHATTAN

Year	Uses	Source
1928	HUHN MINNIE C MISS R	New York Telephone
	LERCH ELEANOR R	New York Telephone

416 MANHATTAN

Year	Uses	Source
1928	LEYDEN JAS R	New York Telephone
	WETZEL ERNST R	New York Telephone

422 MANHATTAN

Year	Uses	Source
1928	FORMONT CHAS P R	New York Telephone

428 MANHATTAN

Year	Uses	Source
1928	KRUEGER ANNA M MRS R	New York Telephone

MANHATTAN AVE

411 MANHATTAN AVE

Year	Uses	Source
2005	h Dewees Deborah	Hill-Donnelly Corporation
	Marshall Joan	Hill-Donnelly Corporation
	h Plonsky Andrew	Hill-Donnelly Corporation
2000	APARTMENTS	Cole Information Services
	JOANN ATWOOD	Cole Information Services
	2L DEBORAH DEWEES	Cole Information Services
	1A ANGELO INDELICATO	Cole Information Services
	JOSHUA KIL	Cole Information Services
	ANDREW PLONSKY	Cole Information Services
1997	INDELCATO Angelo	NYNEX
	SCHONMANN V C	NYNEX
1992	FEMINELLA CONO J	NYNEX Informantion Resource Co.

FINDINGS

Year	Uses	Source
1992	INDELICATO ANGELO	NYNEX Informantion Resource Co.
	NUNZIATO P	NYNEX Informantion Resource Co.
1985	FEMINELLA CONO J	NYNEX Information Resources Company
	INDELICATO ANGELO	NYNEX Information Resources Company
	SUSSMAN T	NYNEX Information Resources Company
1980	FEMINELLA CONO J	New York Telephone
1976	INDELICATO ANGELO	New York Telephone
	MURPHY EUGENE	New York Telephone
1973	Indelicata Angelo	New York Telephone
	Murphy Eugene	New York Telephone
	Santelli John	New York Telephone
1970	Indelicato Angelo	New York Telephone
	Murphy Eugene	New York Telephone
	Santell John	New York Telephone
1965	Murphy Eugene	New York Telephone
	Ottati John	New York Telephone
	Santelli C A	New York Telephone
1960	CALLOVINI ALBERT	New York Telephone
	DISTASI DANL	New York Telephone
	OTTATI JOHN	New York Telephone
	SANTELLI C A	New York Telephone
	Callovini Albert	New York Telephone Company
	Distasi Danl	New York Telephone Company
	Ottati John	New York Telephone Company
	Santelli C A	New York Telephone Company
1949	Ottati John	New York Telephone Company
	Parisi Carmela	New York Telephone Company
	Santelli C A	New York Telephone Company
1945	Ottati John	New York Telephone Company
	Parisi Carmela	New York Telephone Company
1940	Zanzonico Nunzio Il	New York Telephone Company
	Ottatl John	New York Telephone Company

413 MANHATTAN AVE

Year	Uses	Source
2012	OLK WOODWORKING INCORPORATED	Cole Information Services
2007	MYK MECHANICAL CORP	Cole Information Services
	OLK CO INC	Cole Information Services
	OLK WOODWORKING	Cole Information Services

FINDINGS

Year	Uses	Source
2005	Amold Matthew	Hill-Donnelly Corporation
	Myk Mechanical	Hill-Donnelly Corporation
	Ol 01k Woodworking Inc	Hill-Donnelly Corporation
2000	JOHN P MILLER	Cole Information Services
	RYAN SOVEREIGN	Cole Information Services
1997	Donehue Peter	NYNEX
1992	DONOHUE PETER	NYNEX Informantion Resource Co.

417 MANHATTAN AVE

Year	Uses	Source
2012	EUROPEAN DISTRIBUTIONS INC	Cole Information Services
2007	EUROPEAN DISTRIBUTIONS INC	Cole Information Services
2005	European Distributions Inc	Hill-Donnelly Corporation
2000	ERPN DSTRBTNS INC	Cole Information Services
1992	ANDREW ARTISTIC DISTRIBUTIONS FAX NUMBER	NYNEX Informantion Resource Co.
	BICENTENNIAL PUBLSHNG CORP	NYNEX Informantion Resource Co.
1973	Cavoli Jos	New York Telephone
1970	Pam Industries Inc	New York Telephone
	Cavoli Jos	New York Telephone
1965	San Ott Labs Inc	New York Telephone
1960	De Lorenzo John	New York Telephone Company
1949	Godricks Furn Transptn	New York Telephone Company
1945	Atlas Tube & Reef Co	New York Telephone Company
1940	Brenner Suwdust Co In	New York Telephone Company
	Brenner Coal Co	New York Telephone Company

419 MANHATTAN AVE

Year	Uses	Source
2012	ANDREW ARTISTIC	Cole Information Services
2007	SLOVENSKO DNES NEWSPAPER	Cole Information Services
	POLSKA GAZETA	Cole Information Services
	SPRING PUBLISHING CORP	Cole Information Services
	GOLSKA GAZETA NEWSPAPER	Cole Information Services
	ANDREW ARTISTIC DISTRIBUTION	Cole Information Services
2005	Polska Gazeta	Hill-Donnelly Corporation
	Slovensko Ones Newspaper	Hill-Donnelly Corporation
2000	SUPER EXPRESS USA	Cole Information Services
	SUPER EXPRESS USA	Cole Information Services

FINDINGS

Year	Uses	Source
2000	ANDREW ARTISTIC	Cole Information Services
1997	Andrew Artistic Distributions	NYNEX
1992	RODRIGUEZ MARIO CABINET	NYNEX Informantion Resource Co.
1985	NELMS BROOKLYN	NYNEX Information Resources Company
1976	NEW JERSEY CASKET CO	New York Telephone
1973	Superior Overall Mfg Corp	New York Telephone
1970	Superior Overall Mfg Corp	New York Telephone
1965	Superior Overall Mfg Corp	New York Telephone
1960	SUPERIOR OVERALL MFG CORP	New York Telephone
	Superior Overall Mfg Corp	New York Telephone Company
1949	Superior Wk Clothes Mfg Corp	New York Telephone Company
1945	Superior Uniform Co	New York Telephone Company

41O7 MANHATTAN AVE

Year	Uses	Source
1976	JAKER KENNETH	New York Telephone

424 MANHATTAN AVE

Year	Uses	Source
1949	Tip Top Trading Corp confctry	New York Telephone Company

428 MANHATTAN AVE

Year	Uses	Source
1997	ELIVAHU Rina	NYNEX

6273 MANHATTAN AVE

Year	Uses	Source
2005	Lebe Enterprises Inc	Hill-Donnelly Corporation
	Super Deli Market I	Hill-Donnelly Corporation

MEEKER AVE

411 MEEKER AVE

Year	Uses	Source
1992	MATHES JOHN	NYNEX Informantion Resource Co.
1985	MATHES JOHN	NYNEX Information Resources Company
	BRINDISI THOS	NYNEX Information Resources Company
1976	COUSINS PORK PRODS	New York Telephone
	BRINDISI THOS	New York Telephone
	MATHES JOHN	New York Telephone

FINDINGS

Year	Uses	Source
1973	Brindisi Thos	New York Telephone
	Curcio Mary Italian Sausages	New York Telephone
1970	Brindisi Thos	New York Telephone
	Curcio Mary Italian sausages	New York Telephone
	Robano Jeannette Miss	New York Telephone
1965	Brindisi Thos	New York Telephone
	Curcio Mary Italian sausages	New York Telephone
	Robano Jeannette Miss	New York Telephone
1960	BRINDISI THOS	New York Telephone
	CURCIO MARY ITALIAN SAUSAGES	New York Telephone
	ROBANO JEANNETTE MISS	New York Telephone
	Brindisi Thos	New York Telephone Company
	Curcio Mary Italian sausages	New York Telephone Company
	Robano Jeannette Miss	New York Telephone Company
1949	Robano Josephine	New York Telephone Company
1945	Cassello Mary	New York Telephone Company
	Grastataro Jos	New York Telephone Company

413 MEEKER AVE

Year	Uses	Source
2000	TEDS AUTO REPAIR	Cole Information Services
	TONYS AUTO BDY INC	Cole Information Services
1997	Teds Auto Repair	NYNEX
	Tonys Auto Body	NYNEX
1992	TONY S AUTO BODY	NYNEX Informantion Resource Co.
1985	JOSEPH & TONY COLLISION	NYNEX Information Resources Company
1976	BONGIORNO JOS AUTO REPR	New York Telephone
1973	Bongiorno Jos alto repr	New York Telephone
1970	Bongiorno Jos auto repr	New York Telephone
1960	OFFSEY MACHINERY CORP	New York Telephone
	Offsey Machinery Corp	New York Telephone Company

MEEKER AVE E

411 MEEKER AVE E

Year	Uses	Source
2005	h Capolino Anthony	Hill-Donnelly Corporation

FINDINGS

413 MEEKER AVE E

Year	***Uses***	***Source***
2005	Germans Mechanic s	Hill-Donnelly Corporation
	Tonys Auto Body	Hill-Donnelly Corporation

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
415 Manhattan Avenue	2012, 2007, 1980, 1973, 1965, 1949, 1945, 1940, 1934

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
411 MANHATTAN	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
411 MANHATTAN AVE	2012, 2007, 1934, 1928
411 MEEKER AVE	2012, 2007, 2005, 2000, 1997, 1980, 1940, 1934, 1928
411 MEEKER AVE E	2012, 2007, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
413 MANHATTAN AVE	2012, 2007, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
413 MANHATTAN AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
413 MEEKER AVE	2012, 2007, 2005, 1980, 1965, 1949, 1945, 1940, 1934, 1928
413 MEEKER AVE E	2012, 2007, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
416 MANHATTAN	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
417 MANHATTAN AVE	2012, 2007, 1997, 1985, 1980, 1976, 1934, 1928
417 MANHATTAN AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
419 MANHATTAN AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
419 MANHATTAN AVE	2012, 2007, 1980, 1940, 1934, 1928
41O7 MANHATTAN AVE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
422 MANHATTAN	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
424 MANHATTAN AVE	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1945, 1940, 1934, 1928
428 MANHATTAN	2012, 2007, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
428 MANHATTAN AVE	2012, 2007, 2005, 2000, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
6273 MANHATTAN AVE	2012, 2007, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

APPENDIX H

ASTM Questionnaire

Laurel Environmental Associates, Ltd.
53 West Hills Road, Suite 1
Huntington Station, NY 11746
631-673-0612
631-427-5323 fax
www.laurelenv.com

Description of Site: Address:

Residential Property
415 Manhattan Avenue
Brooklyn, NY

Question	Owner[7]			Occupants (if applicable)			Observed During Site Visit	
1a. Is the *property* used for an industrial use?	Yes	No	Unk	Yes	No	Unk	Yes	No
1b. Is any *adjoining property* used for an industrial use?	Yes	No	Unk	Yes	No	Unk	Yes	No
2a. Did you observe evidence or do you have any prior knowledge that the *property* has been used for an industrial use in the past?	Yes	No	Unk	Yes	No	Unk	Yes	No
2b. Did you observe evidence or do you have any prior knowledge that any *adjoining property* has been used for an industrial use in the past?	Yes	No	Unk	Yes	No	Unk	Yes	No
3a. Is the *property* used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No	Unk	Yes	No	Unk	Yes	No
3b. Is any *adjoining property* used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No	Unk	Yes	No	Unk	Yes	No
4a. Did you observe evidence or do you have any prior knowledge that the *property* has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No	Unk	Yes	No	Unk	Yes	No
4b. Did you observe evidence or do you have any prior knowledge that any *adjoining property* has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No	Unk	Yes	No	Unk	Yes	No
5a. Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the *property* or at the facility?	Yes	No	Unk	Yes	No	Unk	Yes	No

Question	Owner[7]			Occupants (if applicable)			Observed During Site Visit	
5b. Did you observe evidence or do you have any prior knowledge that there have been previously any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the *property* or at the facility?	Yes	No	Unk	Yes	No	Unk	Yes	No
6a. Are there currently any industrial *drums* (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?	Yes	No	Unk	Yes	No	Unk	Yes	No
6b. Did you observe evidence or do you have any prior knowledge that there have been previously any industrial *drums* (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?	Yes	No	Unk	Yes	No	Unk	Yes	No
7a. Did you observe evidence or do you have any prior knowledge that *fill dirt* has been brought onto the property that originated from a contaminated site?	Yes	No	Unk	Yes	No	Unk	Yes	No
7b. Did you observe evidence or do you have any prior knowledge that *fill dirt* has been brought onto the property that is of an unknown origin?	Yes	No	Unk	Yes	No	Unk	Yes	No
8a. Are there currently any *pits, ponds*, or *lagoons* located on the *property* in connection with waste treatment or waste disposal?	Yes	No	Unk	Yes	No	Unk	Yes	No
8b. Did you observe evidence or do you have any prior knowledge that there have been previously, any *pits, ponds*, or *lagoons* located on the *property* in connection with waste treatment or waste disposal?	Yes	No	Unk	Yes	No	Unk	Yes	No
9a. Is there currently any stained soil on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
9b. Did you observe evidence or do you have any prior knowledge that there has been previously, any stained soil on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
10a. Are there currently any registered or unregistered storage tanks (above or underground) located on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
10b. Did you observe evidence or do you have any prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) located on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
11a. Are there currently any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
11b. Did you observe evidence or do you have any prior knowledge that there have been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
12a. Is there currently evidence of leaks, spills or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?	Yes	No	Unk	Yes	No	Unk	Yes	No

Question	Owner[7]			Occupants (if applicable)			Observed During Site Visit	
12b. Did you observe evidence or do you have any prior knowledge that there have been previously any leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring drains, walls, ceilings or exposed grounds on the property?	Yes	No	Unk	Yes	No	Unk	Yes	No
13a. If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?	Yes	No	Unk	Yes	No	Unk	Yes	No
13b. If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?	Yes	No	Unk	Yes	No	Unk	Yes	No
14. Does the *owner* or *occupant* of the *property* have any knowledge of *environmental liens* or governmental notification relating to past or recurrent violations of environmental laws with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
15a. Has the *owner* or *occupant* of the *property* been informed of the past existence of *hazardous substances* or *petroleum products* with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
15b. Has the *owner* or *occupant* of the *property* been informed of the current existence of *hazardous substances* or *petroleum products* with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
15c. Has the *owner* or *occupant* of the *property* been informed of the past existence of environmental violations with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
15d. Has the *owner* or *occupant* of the *property* been informed of the current existence of environmental violations with respect to the *property* or any facility located on the *property*?	Yes	No	Unk	Yes	No	Unk		
16. Does the *owner* or *occupant* of the *property* have any knowledge of any *environmental site assessment* of the *property* or facility that indicated the presence of *hazardous substances* or *petroleum products* on, or contamination of, the *property* or recommended further assessment of the *property*?	Yes	No	Unk	Yes	No	Unk		
17. Does the *owner* or *occupant* of the *property* know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any *hazardous substance* or *petroleum products* involving the *property* by any owner or occupant of the *property*?	Yes	No	Unk	Yes	No	Unk		
18a. Does the *property* discharge waste water (not including sanitary waste or storm water) onto or adjacent to the *property* and/or into a storm water system?	Yes	No	Unk	Yes	No	Unk	Yes	No

Question	Owner[7]			Occupants (if applicable)			Observed During Site Visit	
18b. Does the *property* discharge waste water (not including sanitary waste or storm water) onto or adjacent to the *property* and/or into a sanitary sewer system?	Yes	No	Unk	Yes	No	Unk	Yes	No
19. Did you observe evidence or do you have any prior knowledge that any *hazardous substances* or *petroleum products*, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the *property*?	Yes	No	Unk	Yes	No	Unk	Yes	No
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	Yes	No	Unk	Yes	No	Unk	Yes	No

Government Records/Historical Sources Inquiry

(See guide, Section 10)

21. Do any of the following Federal government record systems list the property or any property within the search distance noted below:

	Approximate Minimum Search Distance, miles (kilometers)		
Federal NPL site list	1.0 (1.6)	Yes	No
Federal CERCLIS list	0.5 (0.8)	Yes	No
Federal CERCLIS NFRAP site list	property and adjoining properties	Yes	No
Federal RCRA CORRACTS facilities list	1.0 (1.6)	Yes	No
Federal RCRA non-CORRACTS TSD facilities list	0.5 (0.8)	Yes	No
Federal RCRA generators list	property and adjoining properties	Yes	No
Federal ERNS list	property only	Yes	No

22. Do any of the following state record systems list the property or any property within the search distance noted below:

	Approximate Minimum Search Distance, miles (kilometers)		
State lists of hazardous waste sites identified for Investigation or remediation:			
State — Equivalent NPL	1.0 (1.6)	Yes	No
State — Equivalent CERCLIS	0.5 (0.8)	Yes	No
State landfill and/or solid waste disposal site lists	0.5 (0.8)	Yes	No
State leaking UST lists	0.5 (0.8)	Yes	No
State registered UST lists	property and adjoining properties	Yes	No

23. Based upon a review of *fire insurance maps* 10.3.1.3 or consultation with the local fire department serving the *property*, all as specified in the guide, are any buildings or other improvements on the *property* or on an *adjoining property* identified as having been used for an industrial use or uses likely to lead to contamination of the *property*? Yes No

The *preparer* of the *transaction screen questionnaire* must complete and sign the following. (For definition of “preparer” and “user,” see 5.3 or 3.3.28.)

The *Owner* questionnaire was completed by:

Name
Title
Firm
Address

Phone number
Date
Preparer's relationship to site
Preparer's relationship to user (for example, principal, employee, agent, consultant)

The *Occupant* questionnaire was completed by:

Name
Title
Firm
Address

Phone number
Date
Preparer's relationship to site
Preparer's relationship to user (for example, principal, employee, agent, consultant)

The *Site Visit* questionnaire was completed by:

Name Thomas H. Johansen
Title Geologist
Firm Laurel Environmental Associates, Ltd.
Address 53 West Hills Road, Suite 1, Huntington Station, NY 11746
Phone number 631 673 0612
Date April 15, 2013
Preparer's relationship to site none
Preparer's relationship to user (for example, principal, employee, agent, consultant)

The *Government Records* and *Historical Sources Inquiry* questionnaire was completed by:

Name Thomas H. Johansen
Title Geologist
Firm Laurel Environmental Associates, Ltd.
Address 53 West Hills Road, Suite 1, Huntington Station, NY 11746
Phone number 631 673 0612
Date
Preparer's relationship to site
Preparer's relationship to user (for example, principal, employee, agent, consultant)

User's relationship to the site (for example, owner, prospective purchaser, lender, etc.)

If the preparer(s) is different from the user, complete the following:

Name of User
User's address

User's phone number

Copies of the completed questionnaires have been filed at:

Copies of the completed questionnaires have been mailed or delivered to:

Preparer represents that to the best of the preparer's knowledge the above statements and facts are true and correct and to the best of the preparer's actual knowledge no material facts have been suppressed or misstated.

Signature _____ Date April 15, 2013
Signature _____ Date_____
Signature _____ Date_____

APPENDIX I

Personnel Qualifications

SCOTT A. YANUCK, C.E.I., C.E.S.

EDUCATION: STATE UNIVERSITY OF NEW YORK AT STONY BROOK
B.A., Earth and Space Sciences, December, 1987, Minor in Technology and Society.
M.Sc., Hydrogeology, May, 1993.Course work included classes in Geophysics, Chemical Hydrogeology, Organic Contaminant Hydrology, and Computer Modeling.

EXPERIENCE:

PRINCIPAL, MANAGING HYDROGEOLOGIST
LAUREL Environmental Associates, Ltd.

- Supervise all technical and financial operations of environmental consulting firm.
- Completed OSHA 40 Hour HAZWOPER Supervisors course, 8 Hour Refresher Courses.
- Geoprobe Systems Training on Direct Push Techniques including well installation and pump tests
- Completed ASTM Environmental Site Assessment training course for professionals.
- Completed NJDEPE UST Certification Program.
- Completed Mold Remediation Manage Course based on NYC DOH Guidelines
- NYSDOL Asbestos Inspector, #AH97-08528
- GSSI Certification in Ground Penetrating Radar

September, 1992-present

PROJECT MANAGER, GROUP SUPERVISOR: ENVIRONMENTAL SERVICES
Richard D. Galli, P.E., P.C.

In charge of Environmental Services Group. Scope of work within group includes the following:

- Phase I Environmental Assessments.
- Phase II Environmental Assessments.
- Groundwater Contamination Studies.
- Underground Storage Tanks (UST'S): testing, removal, closure.
- Underground Injection Well Closure (UIC)
- Hazardous Site Remediation.
- State Superfund RI/FS.
- Indoor Air Quality (IAQ) studies.

In addition to performing any of the above-mentioned work, personally responsible for project management, including project setup, project review and quality control/quality assurance of proposals and reports generated by the environmental group.

PROJECT MANAGER, HYDROGEOLOGY
Richard D. Galli, P.E., P.C.

Performed all aspects of numerous Phase I Environmental Assessments.

Performed and supervised Phase II and Phase III investigations and remediation. Duties included proposal writing, historical investigations, soil and water sampling, supervision of well drilling teams, supervision of remediation work, supervision of underground storage tanks removals, groundwater studies, and report writing.

Knowledgeable in Ground Water Computer Modeling with *canned* programs as well as developing new programs. Worked to set up a GIS based system capable of mapping CERCLA and NPL site, NYSDEC Spills and Inactive Hazardous Waste Sites, etc., to aid in performing Audits.

Certified: OSHA Forty Hour HAZWOPER Course, NIOSH 582.

TECHNICIAN, FIELD AND LABORATORY
Kemron Environmental Services, Inc.

Worked as an industrial hygienist, taking air and bulk samples, and performing Indoor Air Quality (IAQ) studies. As a Polarized Light Microscopist, analyzed bulk samples for asbestos. Analyzed samples from the *Gramercy Park steam pipe explosion* and was detailed to St. Croix for on site sampling and analysis at the Hess oil refinery during the cleanup of *Hurricane Hugo.* Also worked as GC/MS and HPLC technician.
June, 1989-July, 1990 full time, continuing part time to 1993.

CONSTRUCTION SUPERVISOR, DEVELOPER
SHY Building Corporation, Huntington, NY.

Managed land development and housing construction. Scheduling and supervision of all trades necessary. Duties included the following:

- Design of drainage structures
- Design of buildings/renovations
- Surveying in conjunction with road/drainage construction.
- Property acquisition.
- Submitted applications for subdivision, building permits, and sanitary/water permits to Town and County agencies.
- Supervision of UST installations.
- Geotechnical and environmental inspections of properties/building sites.
- Energy efficient building design and implementation.

AFFILIATIONS

Air & Waste Management Association
American Institute of Professional Geologists
American Society for Testing and Materials
    Active Committee Member E-40, Subsurface Investigations
    Active Committee Member E-50, Environmental Assessment
    Active Committee Member E-50.1, Underground Storage Tanks
Environmental Assessment Association, Certified Environmental Inspector and Specialist, #12200.
Hazardous Materials Control Resources Institute
Huntington Chamber of Commerce
Huntington Historical Society
Long Island Association
Long Island Builders Institute
Long Island Geologists
National Fire Protection Association
National Ground Water Society
New York State Council of Professional Geologists
US Green Building Councel

CARLA M. SULLIVAN, C.E.S

EDUCATION

BS GEOLOGY, January 1998. **Cum Laude**

EXPERIENCE:

SENIOR GEOLOGIST, Laurel Environmental Associates, Ltd., Huntington, NY November 1997 – present.

- Project Manager
- Certified Environmental Specialist
- Phase I Environmental Site Assessments
- Phase II Soil and Groundwater Sampling and Analysis Reports.
- Supervises and writes Remediation/Phase III and Analysis
- Geotechnical reports, class V injection well closure plans and RI/FS workplan for regulatory agency approval
- Groundwater Contamination Studies.
- Underground Storage Tanks (UST'S): testing, removal, closure
- Underground Injection Well Closure (UIC)
- Hazardous Site Remediation.

In addition to performing any of the above-mentioned work personally, responsible for project management, including project setup, project review and quality control/quality assurance of proposals and reports

FIELD SKILLS:

- Completed OSHA 40 HOUR HAZWOPER with confined space, 8 Hour Refresher Courses to current.
- State of New Jersey Department of Environmental Protection Subsurface Inspection, License #483291
- Supervises drilling and installation of groundwater monitoring wells, drilling of borings, UST removals, geotechnical drilling, leaching pool "super sucker" remediation, ground penetrating radar survey.
- Performs split spoon soil sampling, groundwater monitoring well installation, purging & sampling, soil-vapor sampling, UST sampling & registration, dye trace & floor drain closure, magnetometer survey
- Experience with PID, hand auger, soil-vapor probe, soil dredge sampler, magnetometer, pH meter.

ACTIVITIES:

- Member of the National Honorary Society in the Earth Sciences Sigma Gamma Epsilon
- Member of the National Society of Research for Professionals 5 Sigma Xi
- Member of the National Honor Society C. W. Post Chapter Phi Beta Kappa
- Member of the Geological Society of America
- Member of New York State Paleontological Society
- Member of the American Natural History Museum
- Member of Sierra Club
- Member of the National Geographic Society

AFFILIATIONS

- American Institute of Professional Geologists
- Environmental Assessment Association, Certified Environmental Inspector and Specialist
- Huntington Historical Society
- Oyster Bay Historical Society
- Long Island Association
- Long Island Professional Geologists Association
- New York State Council of Professional Geologists

BRIAN C MCCABE

EDUCATION: STATE UNIVERSITY OF NEW YORK AT STONY BROOK
B.S, Geology, September, 1991, Minor in Marine Science.
M.Sc., Hydrogeology, Pending. Course work included classes in Geophysics, Chemical Hydrogeology, Organic Contaminant Hydrology, and Bio-Remediation.

EXPERIENCE:

SENIOR GEOLOGIST
LAUREL Environmental Associates, Ltd.

- Phase I Environmental Site Assessments.
- Phase II Environmental Assessments.
- Groundwater Contamination Studies.
- Underground Storage Tanks (UST'S): testing, removal, closure.
- Underground Injection Well Closure (UIC)
- Hazardous Site Remediation.
- Completed OSHA 40 Hour HAZWOPER Supervisors course, 8 Hour Refresher Courses.
- Completed ASTM Environmental Site Assessment training course for professionals.

January, 2012-present

PROJECT MANAGER, DEPARTMENT MANAGER: PROFESSIONAL SERVICES
Fenley & Nicol Environmental Inc.

In charge of Environmental Services Group. Scope of work within group includes the following:

- Phase I Environmental Assessments.
- Phase II Environmental Assessments.
- Groundwater Contamination Studies.
- Underground Storage Tanks (UST'S): testing, removal, closure.
- Underground Injection Well Closure (UIC)
- Hazardous Site Remediation.
- Construction and operation of remediation system.

In addition to performing any of the above-mentioned work, personally responsible for project management, of professional staff project, which, included review of proposals and reports generated by the professional service department.

Certified: OSHA Forty Hour HAZWOPER Course
Preston Groundwater Remediation Course
ASTM 1527-05 Environmental Site Assessment training course
Waterloo, Groundwater modeling I training course
Exxon-Mobil, LPS training
LIRR Track Safety training

September, 1997-July, 2012

FIELD TECHNICIAN, AND LABORATORY SUPERVISER
Kemron Environmental Services, Inc.

FIELD TECHNICIAN – Collected waste water and Indoor Air Quality (IAQ) samples.
LABORATORY SUPERVISER, - Supervised and performed the analysis of asbestos air and bulk samples utilizing Phase Contrast and Polarized Light Microscopist, Performed on-site sampling and analysis of asbestos air and bulk samples at the Hess oil refinery in St. Croix during the cleanup of *Hurricane Hugo.* Also worked as GC/MS and HPLC technician. Perform air, bulk and water analysis for metals utilizing ICP and Flame AA instrumentation.
Part time from February 1990-May 1991
Full time from May 1991-September 1997

AFFILIATIONS

Long Island Geologists
United States Coast Guard Auxiliary

THOMAS H. JOHANSEN

EXPERIENCE

Geologist, Laurel Environmental Associates, Ltd., Huntington, NY
August 2008 – Present

- Phase I Environmental Site Assessments
- Phase II Subsurface Soil, Soil Vapor, and Groundwater Investigations
- Remediation/Phase III projects and reports
- Sub-Slab Soil Vapor and Indoor Air Quality (IAQ) studies
- Groundwater Quality Investigations
- Underground Injection Well Closure (UIC)
- Underground Storage Tank (UST) removals, abandonments, and spill closures
- Hazardous site remediation

FIELD SKILLS:

- Performs various methods of soil, soil vapor and groundwater sampling
- Experienced with truck-mounted, track mounted and portable Geoprobe® machines and tooling
- Supervises ground penetrating radar, magnetic and utility surveys
- Supervises leaching pool remediation
- Performs and supervises direct push and hollow stem auger monitoring well installation
- Experienced with various field screening and monitoring equipment such as Photo Ionization Detector and water quality instruments
- Experienced with magnetic and pipe locating equipment
- Completed OSHA 40-Hour HAZWOPER Training program, 8 Hour Refresher Courses to current.

EDUCATION

BS Geology, May 2008.

- Hofstra University, New York

RELATED COURSES

- Environmental Science I, Geology I & II, Hydrogeology, Petrography, GeoChemistry, Cartography, Sedimentation, Stratigraphy, Chemistry I & II, Physics I & II, Biology, Computer Science I, Calculus I & II.

CHRISTOPHER J. CONNOLLY

EDUCATION

BSc Music Technology and Audio Systems Design, May 2008

- University of Derby, Derbyshire, United Kingdom

RELATED COURSES

- Acoustics, Auditory Perception and Psychoacoustics, Micro-electronics, Sound Reinforcement, Electronic Communications Technology, C/C++ Programming, Quantitative Methods.

EXPERIENCE

Environmental Consultant, Vibrock Limited, Heanor, Derbyshire, United Kingdom
September 2008 – April 2010

- Conducted Occupational Personal Noise and Dust Monitoring
- Conducted Environmental Compliance Noise and Dust Monitoring
- Produced technical reports based on monitoring sessions

Environmental Scientist, Laurel Environmental Associates, Ltd., Huntington, NY
December 2010 – Present

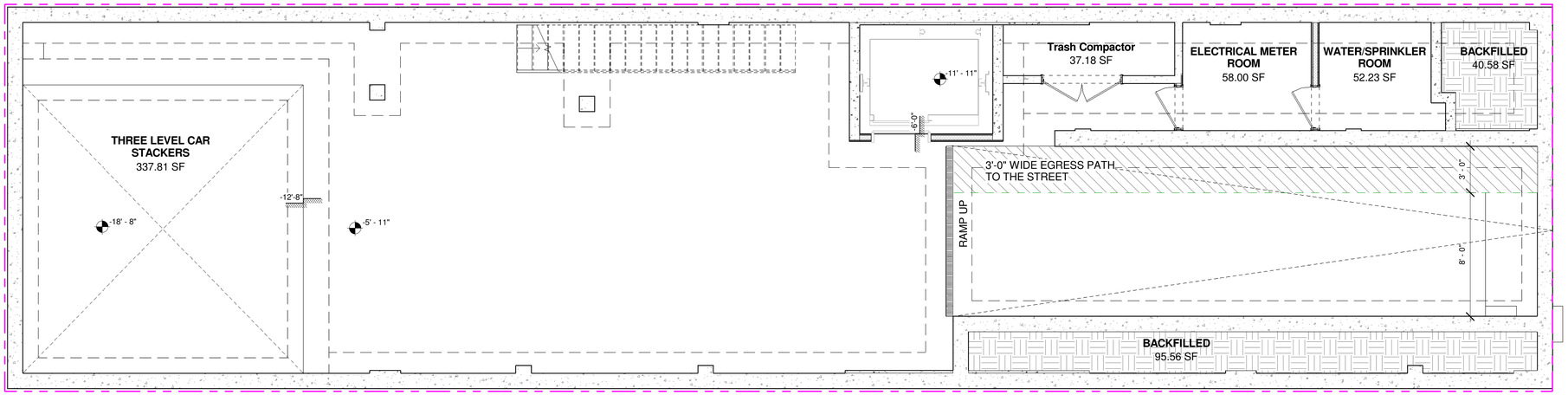
- Assists in visual inspections of Phase I & II Environmental Site Assessments
- Writes Transaction screen and Phase I Environmental Site Assessments
- Assists in Phase II site operations

FIELD SKILLS:

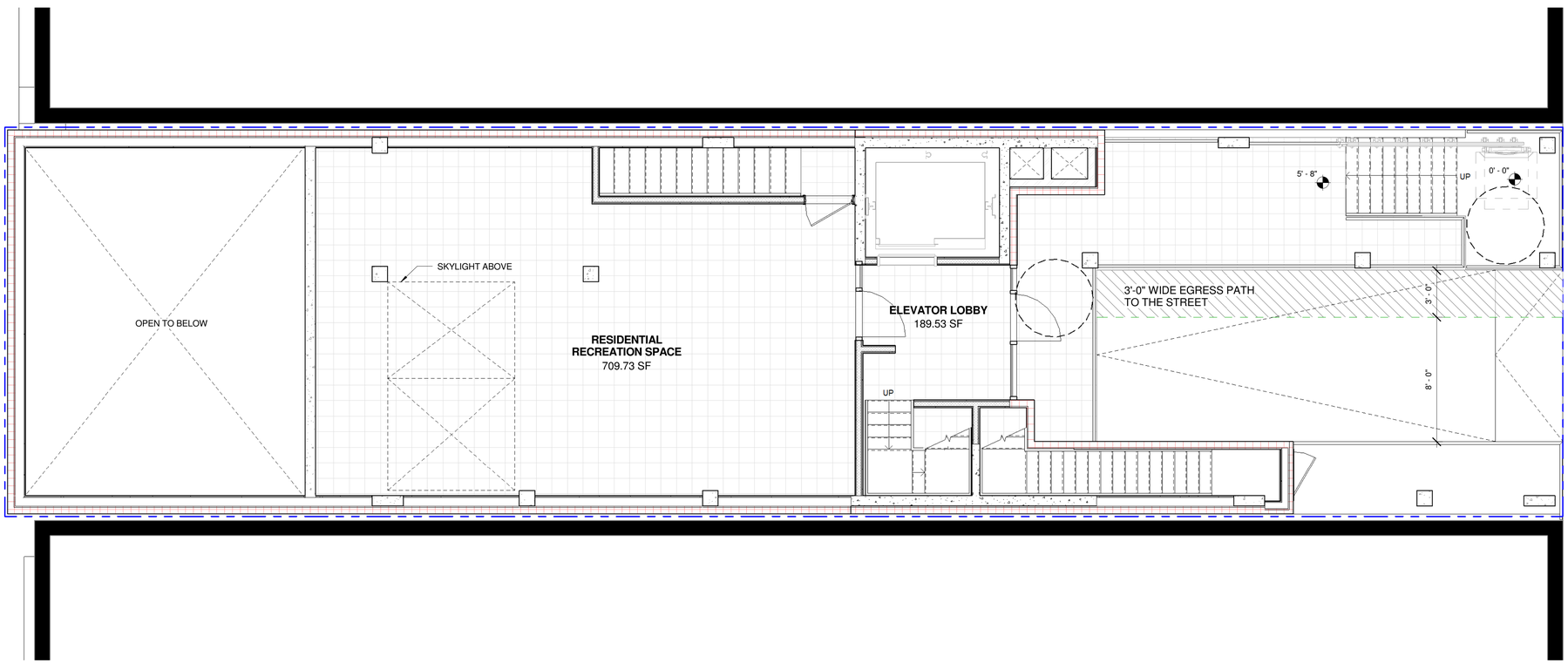
- Assists in various methods of soil and groundwater sampling, groundwater monitoring, well purging & sampling.
- Assists with truck-mounted, track-mounted and portable Geoprobe® machines and tooling.
- Assists with ground penetrating radar, magnetic and utility surveys.
- Supervises leaching pool remediation.
- Completed OSHA 24-Hour HAZWOPER Training program
- Has conducted Nuisance Noise and Excessive Vibration monitoring assessments.
- Assists in air quality and dust sampling in residential and commercial spaces.
- Assists in environmental remediation projects.
- Experience with various forms of noise monitoring equipment such as; Casella and Cirrus Sound Level Meters, and Personal Dosimeter badges, personal and environmental particulate dust monitoring apparatus, such as; personal air flow pumps, cyclone filter heads, filters and weighing balance.
- Working knowledge of the aggregate industry including; Quarrying practices, machinery and equipment and concrete, asphalt and block production methods.
- Knowledge of noise and dust suppression, protection and reduction methods including; Personal Protective Equipment (hearing protection and dust masks), dust extraction, acoustic dampening and general safe work practices.

APPENDIX B

Redevelopment Plans



1 Cellar Plan
1/4" = 1'-0"



2 1st Floor
1/4" = 1'-0"

Revision No.	Date	Remarks

DOB APPLICATION NO.
****

SCARANO ARCHITECTS
P L L C
110 York Street, Brooklyn, NY 11201
Phone (718) 222-0322 Fax (718) 222-4486
www.scaranoarchitects.com

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Drawing scales as indicated are for reference only and are not intended to accurately depict actual or designed conditions. Written dimensions shall govern.

Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11229

Title:
CELLAR/1ST FL. PLAN

DWG #
A-100.00

Signature:

Date:
07/22/02

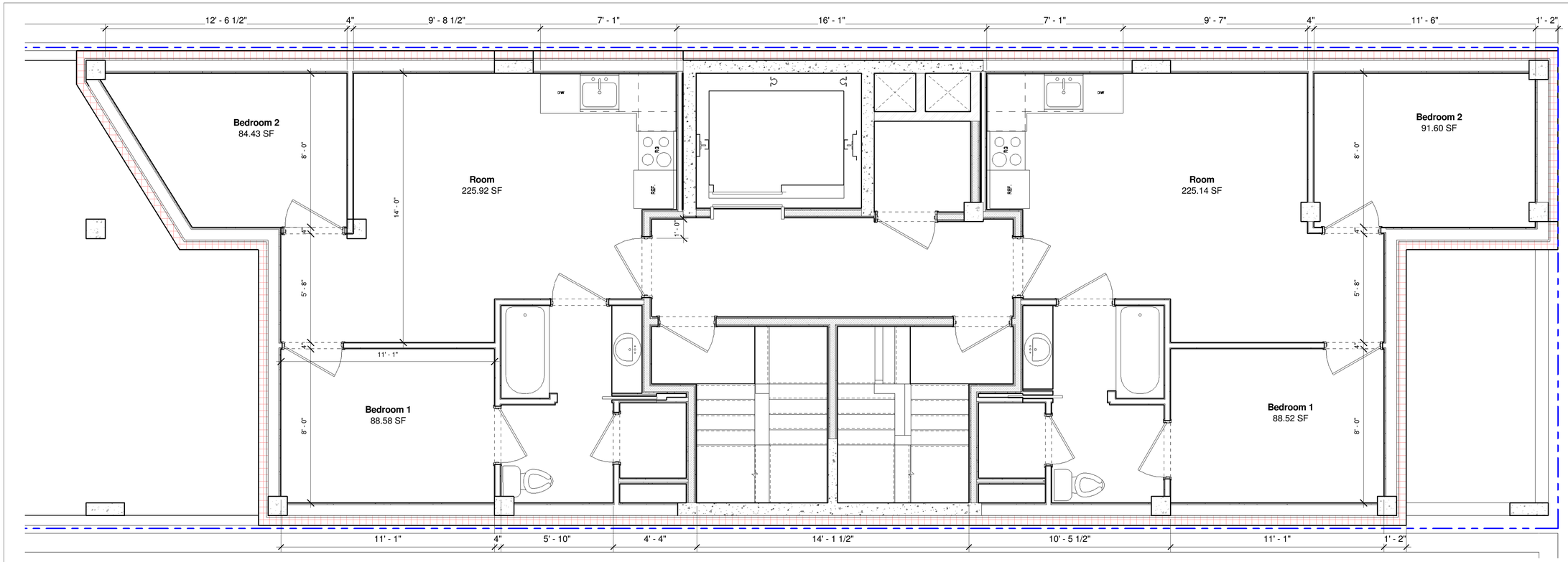
Seal:

Scale:
1/4" = 1'-0"

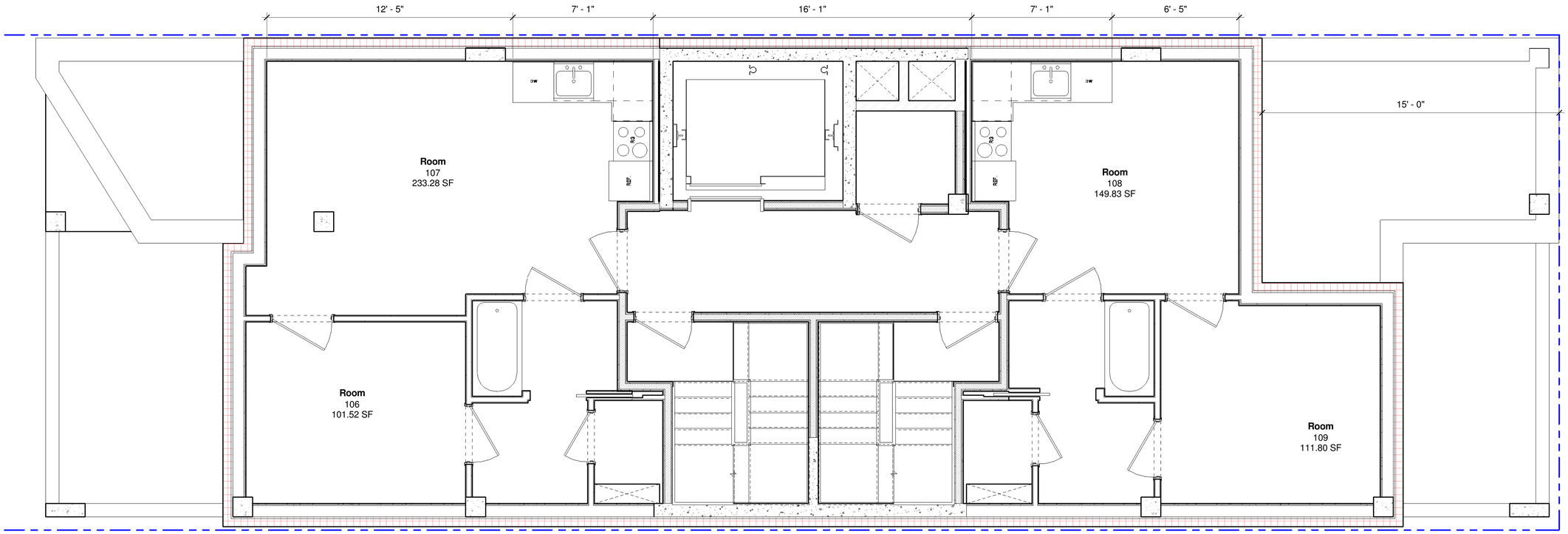
Drawn:
Designer

Job #
32157

Checked:
Checker



1 2nd Floor
3/8" = 1'-0"



2 7th Floor
3/8" = 1'-0"

Revision No.	Date	Remarks

DOB APPLICATION NO.
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11229

Title:
2nd-6th Floors & 7th Floor Plans

DWG #
A-101.00

Signature:

Date:
07/22/02

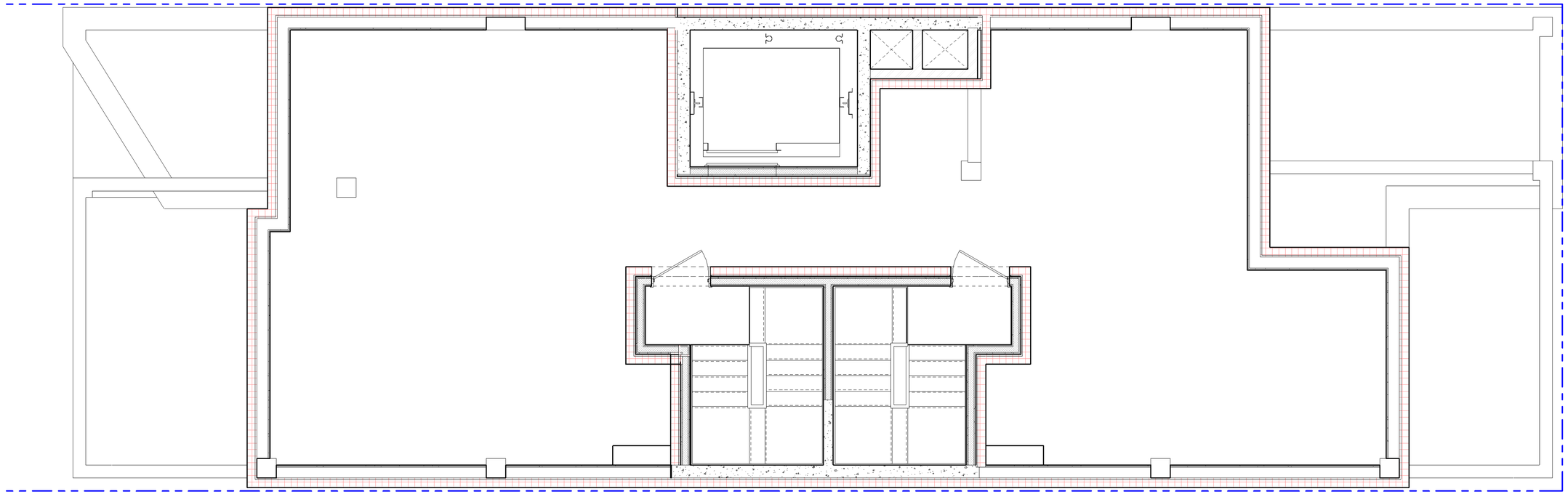
Seal:

Scale:
3/8" = 1'-0"

Drawn:
Designer

Job #
32157

Checked:
Checker



2 Roof
3/8" = 1'-0"

Revision No.	Date	Remarks

DOB APPLICATION NO.
****

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Project:

415 MANHATTAN AVENUE
BROOKLYN N.Y. 11229

Title:

ROOF PLAN

DWG # A-102.00

Signature:

Date: 04/23/13

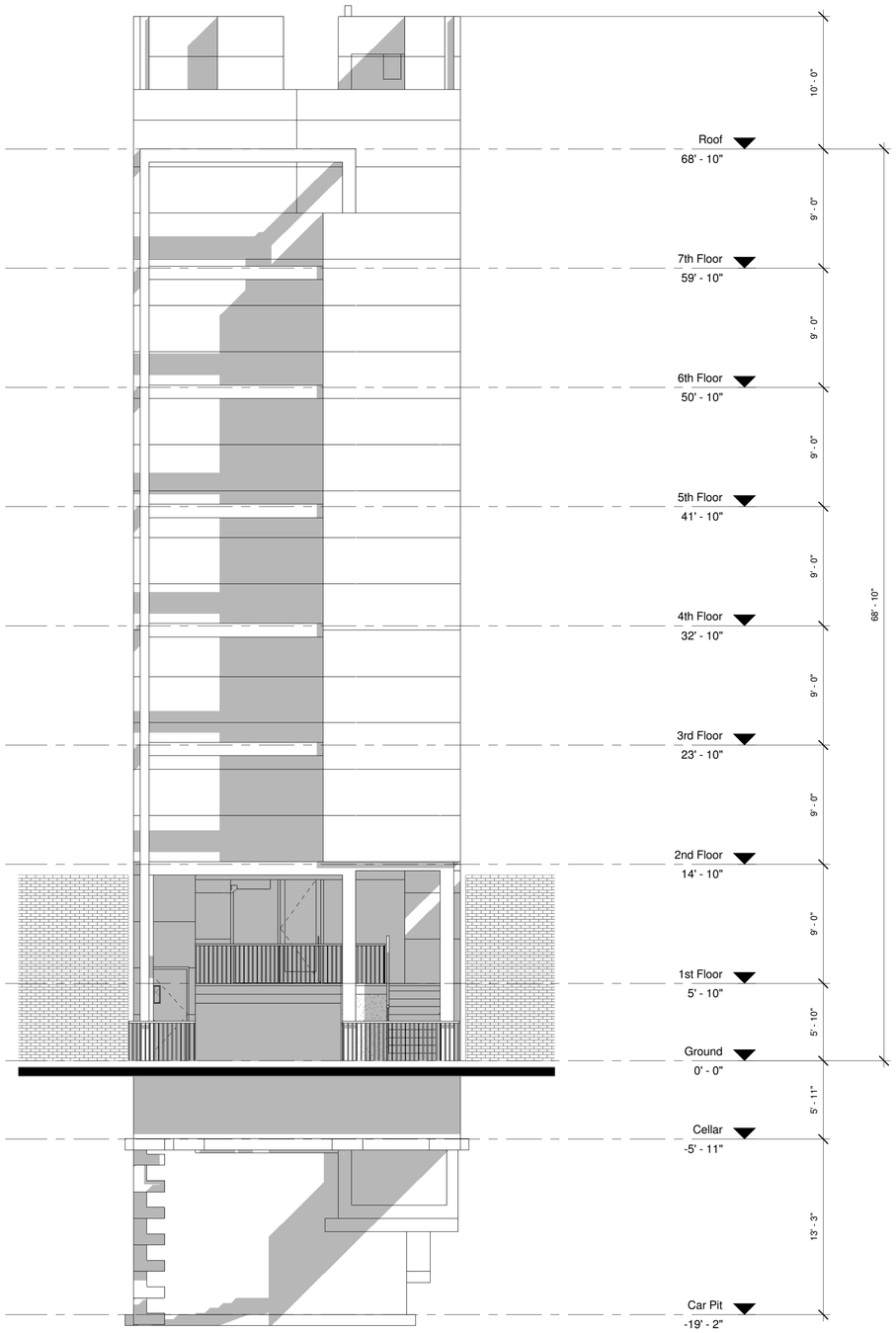
Seal:

Scale: 3/8" = 1'-0"

Drawn: Designer

Job # 32157

Checked: Checker



1 East
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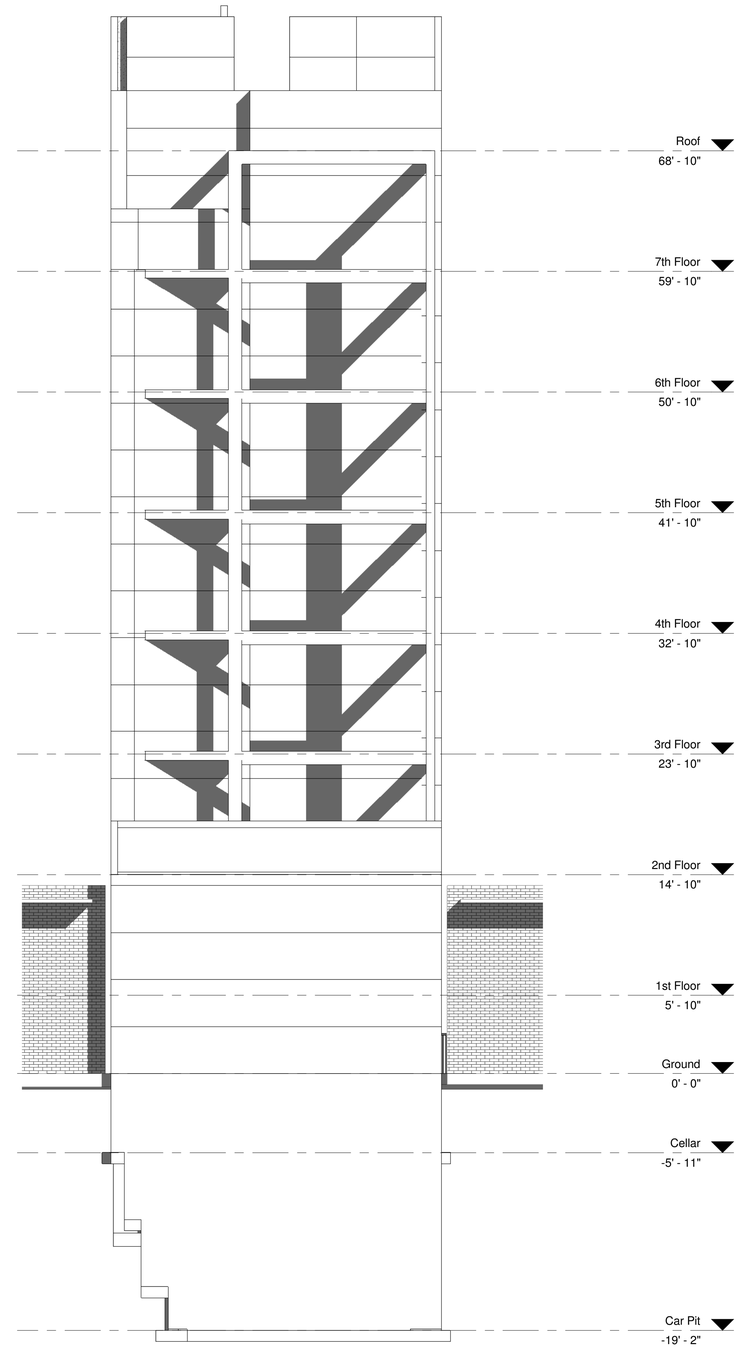

2 West
3/16" = 1'-0"

Revision No.	Date	Remarks

DOB APPLICATION NO.
****

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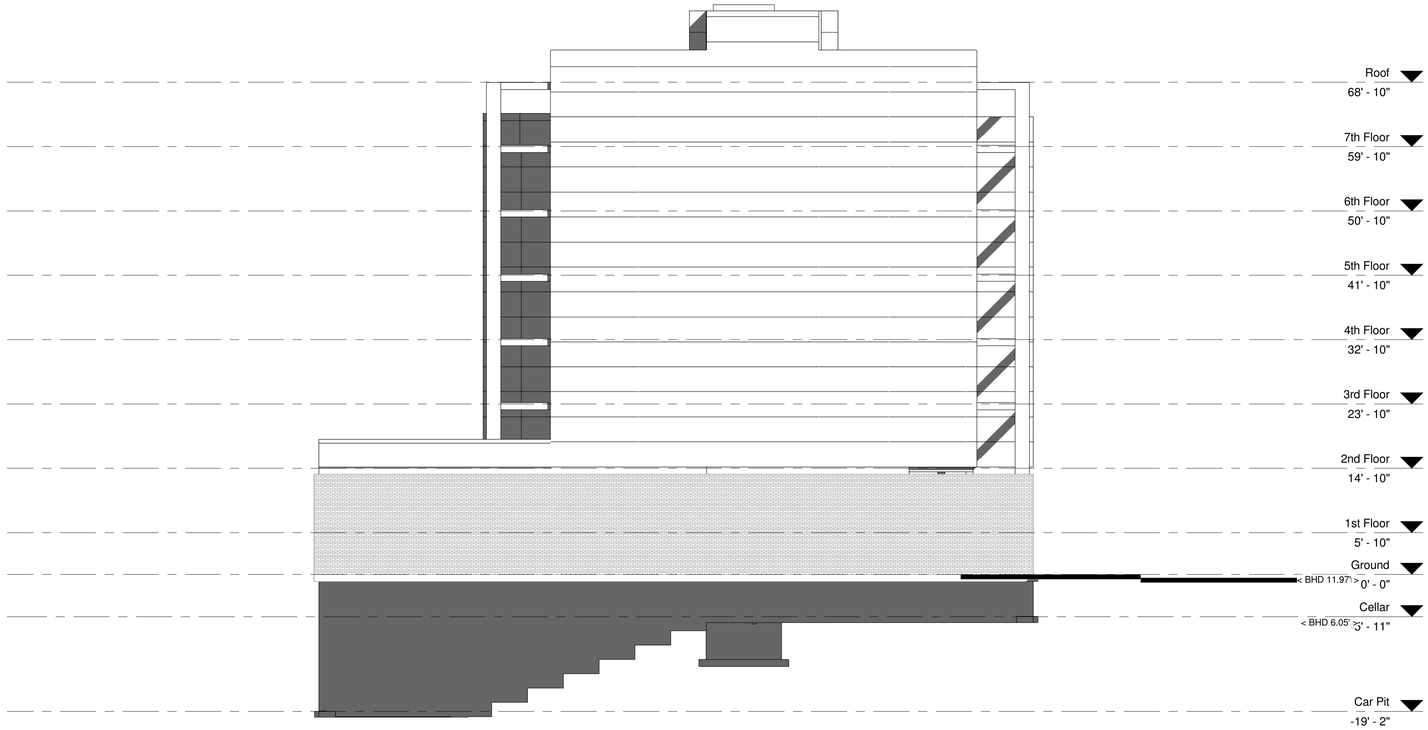
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11229

Title:
EAST/WEST ELEVATIONS

DWG #
A-200.00

Signature:	Date: 07/22/02
Seal:	Scale: 3/16" = 1'-0"
	Drawn: Designer
	Job # 32157
	Checked: Checker



1 South
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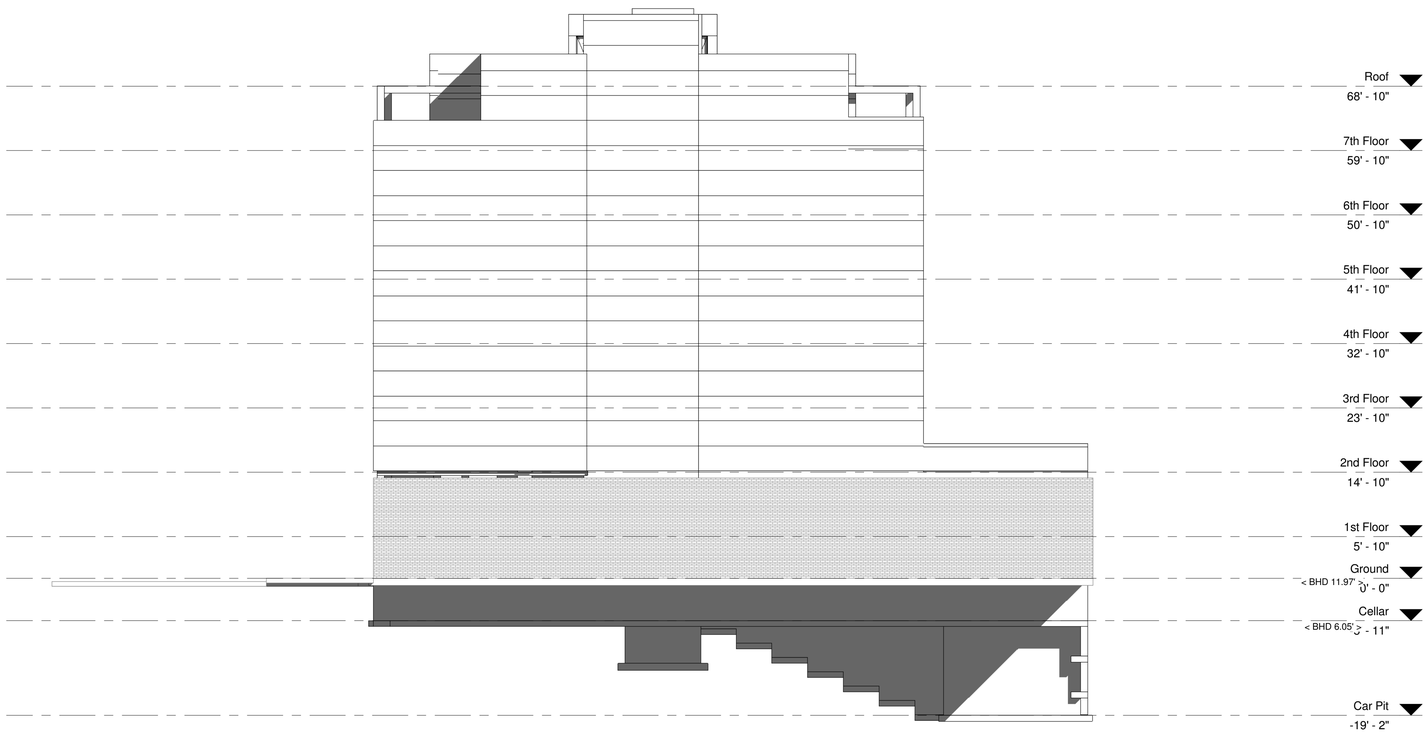

2 North
1" = 10'-0"

Revision No.	Date	Remarks

DOB APPLICATION NO.
****

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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11229

Title:
NORTH/SOUTH
ELEVATIONS

DWG #
A-201.00

Signature:

Date:
07/22/02

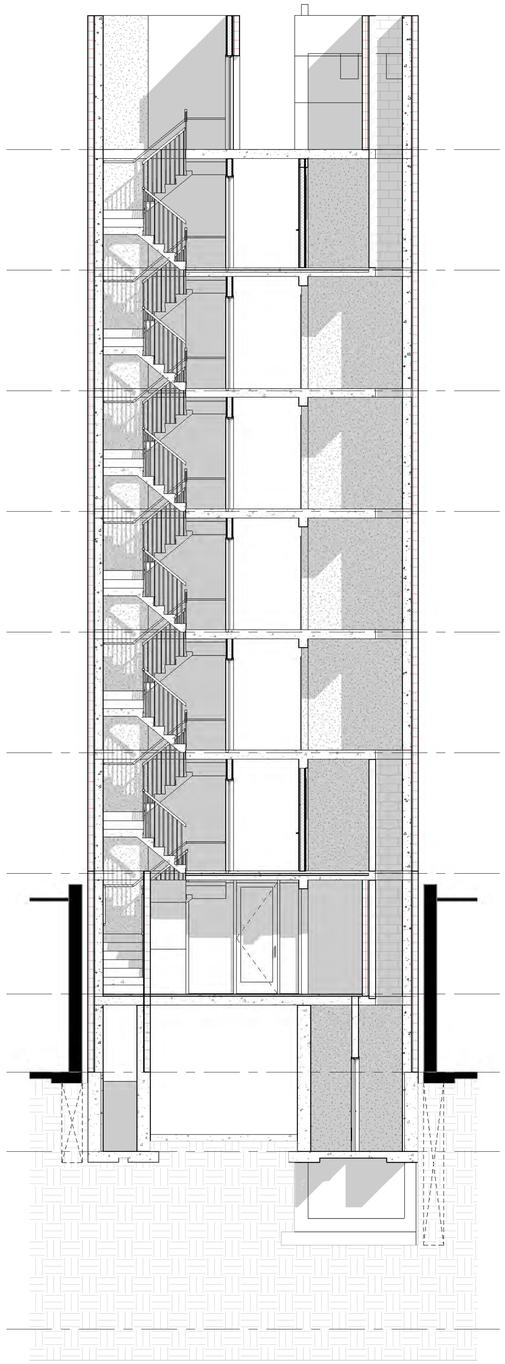
Seal:

Scale:
1" = 10'-0"

Drawn:
Designer

Job #
32157

Checked:
Checker



2 Section 1
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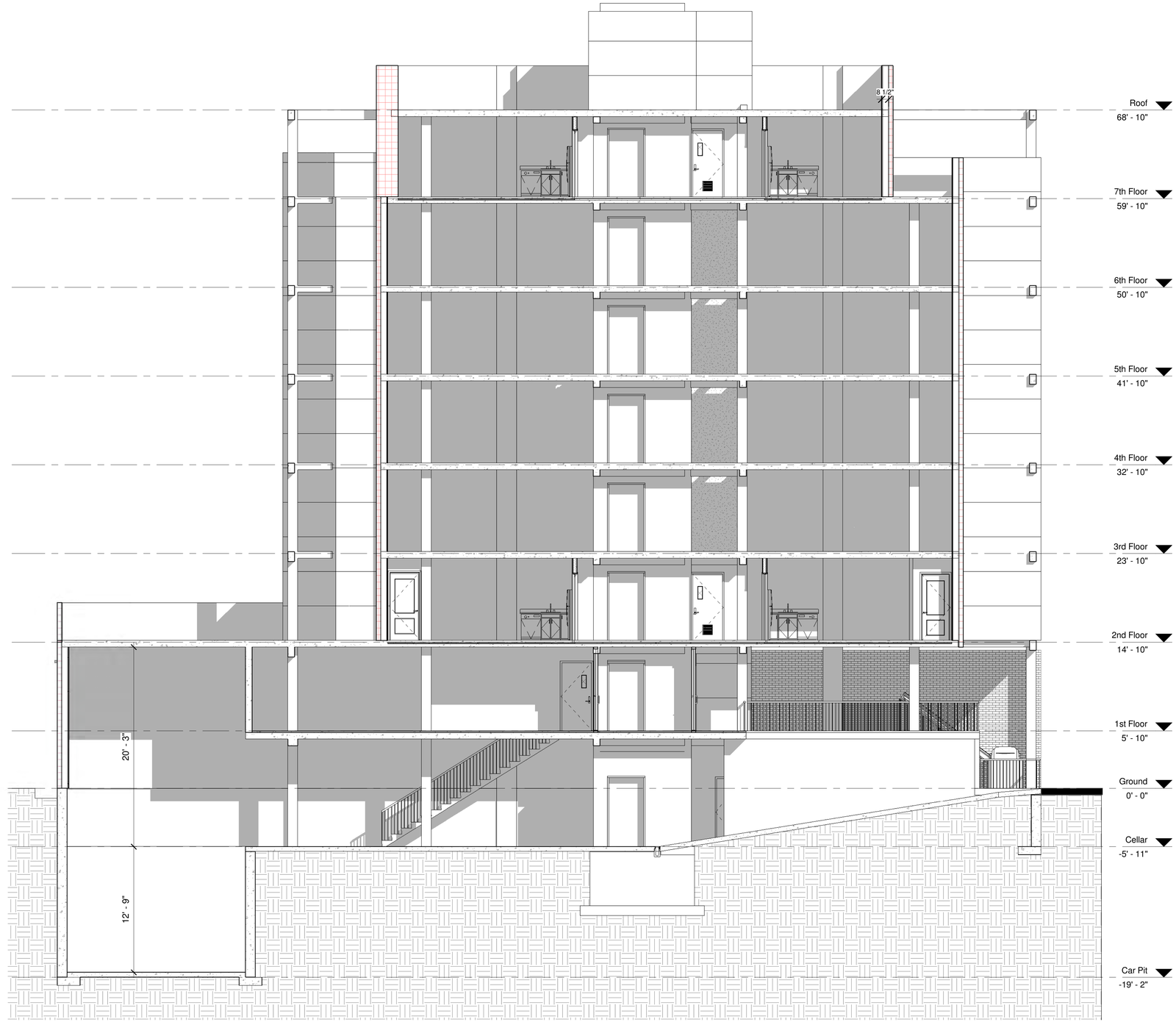

1 Section 2
3/16" = 1'-0"

Revision No.	Date	Remarks

DOB APPLICATION NO.
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11229

Title:
BUILDING SECTIONS

DWG #
A-300.00

Signature:

Date:
07/22/02

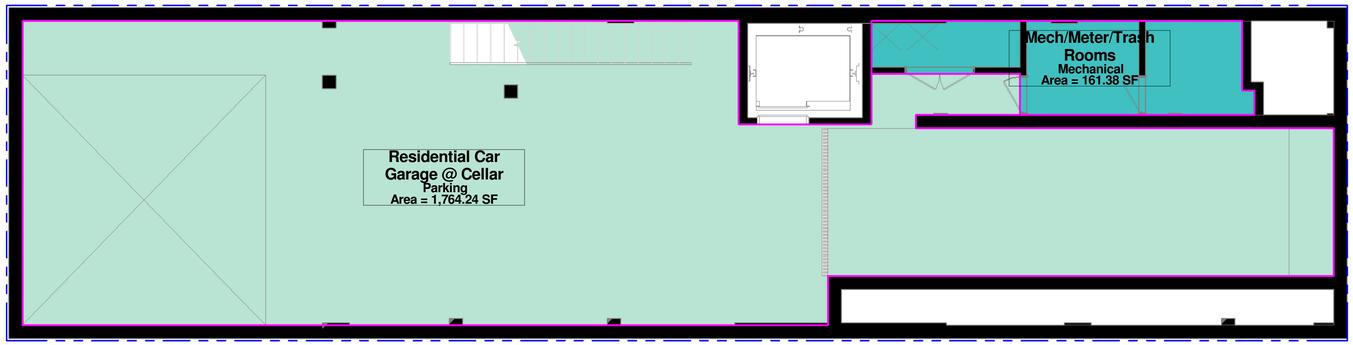
Seal:

Scale:
3/16" = 1'-0"

Drawn:
Designer

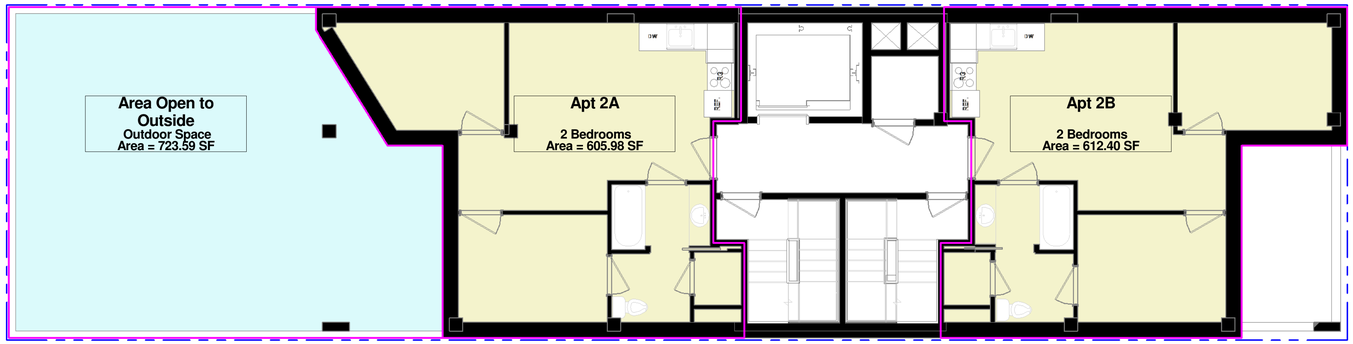
Job #
32157

Checked:
Checker

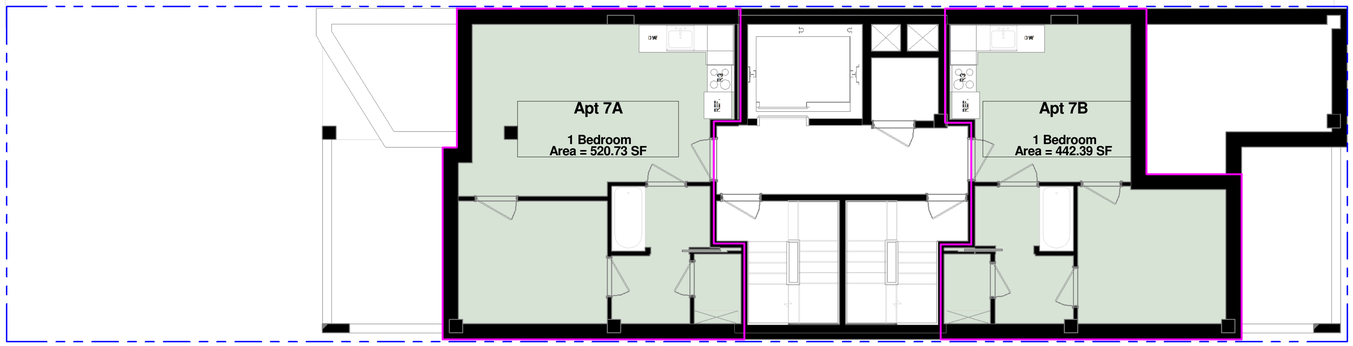


2 Cellar
3/16" = 1'-0"

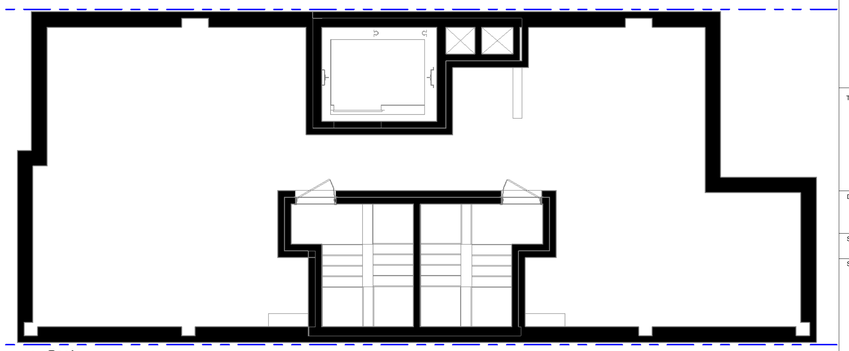
3 1st Floor
3/16" = 1'-0"



1 2nd Floor
3/16" = 1'-0"



4 7th Floor
3/16" = 1'-0"



5 Roof
3/16" = 1'-0"

Area Schedule (Apartment Breakdown Schedule)

Room Type	Name	Area
Area Open to Outside	Outdoor Space	1,479.14 SF
Car Garage @ First Floor	Parking	471.75 SF
Mech/Meter/Trash Rooms	Mechanical	161.38 SF
Residential Car Garage @ Cellar	Parking	1,764.24 SF
Residential Rec. Space	Recreation Area	801.48 SF
		4,677.98 SF
Apt 2A	2 Bedrooms	605.98 SF
Apt 2B	2 Bedrooms	612.40 SF
Apt 3A	2 Bedrooms	605.98 SF
Apt 3B	2 Bedrooms	612.40 SF
Apt 4A	2 Bedrooms	605.98 SF
Apt 4B	2 Bedrooms	612.40 SF
Apt 5A	2 Bedrooms	605.98 SF
Apt 5B	2 Bedrooms	612.40 SF
Apt 6A	2 Bedrooms	605.98 SF
Apt 6B	2 Bedrooms	612.40 SF
Apt 7A	1 Bedroom	520.73 SF
Apt 7B	1 Bedroom	442.39 SF
		7,055.02 SF
Grand total		11,733.01 SF

Revision No.	Date	Remarks

DOB APPLICATION NO.
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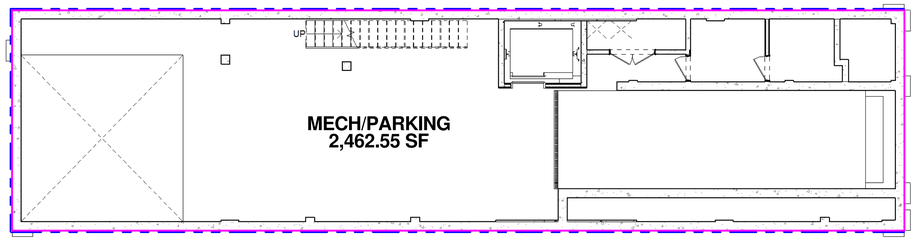
Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11229

Title:
USE BREAKDOWN

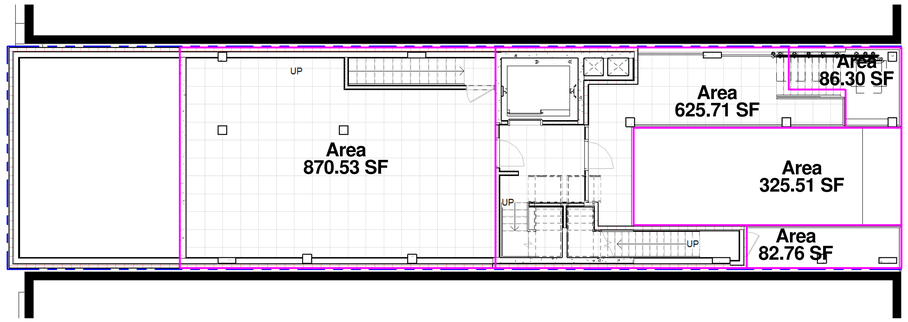
DWG #
AREAS

Signature:
Seal:

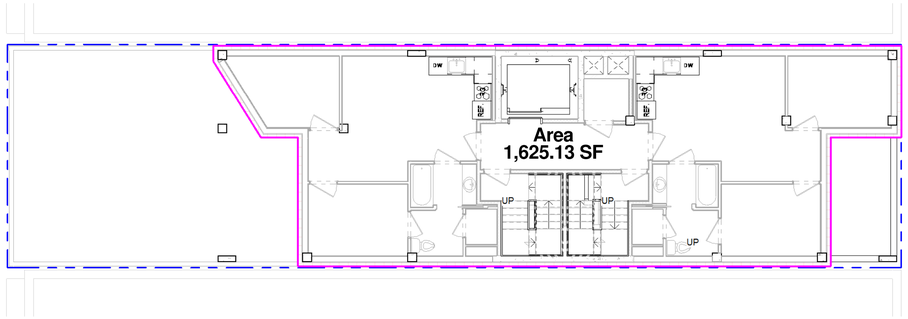
Date: 05/14/13
Scale: 3/16" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker



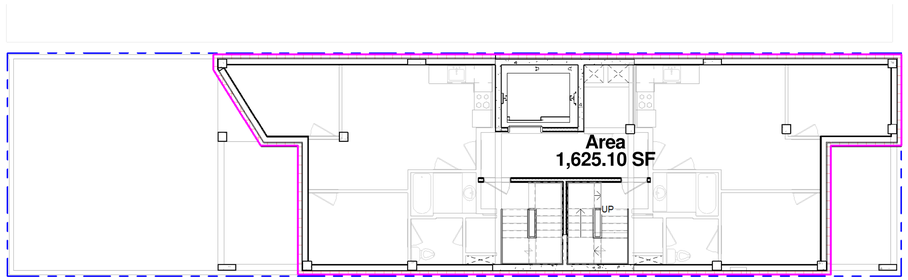
2 Cellar
1/8" = 1'-0"



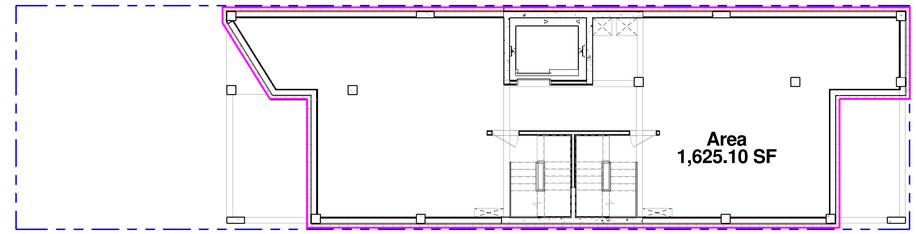
1 1st Floor Structural
1/8" = 1'-0"



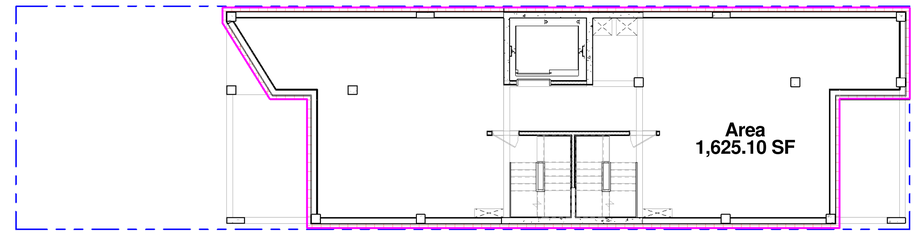
3 2nd Floor Structural
1/8" = 1'-0"



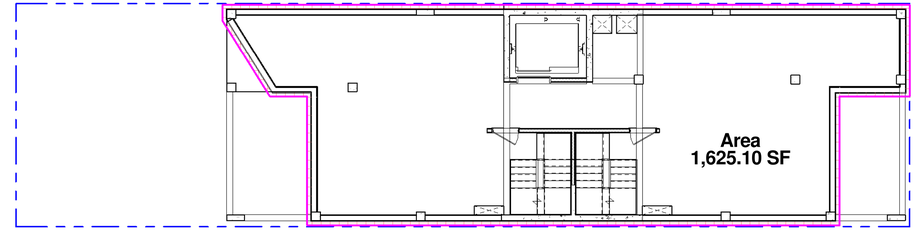
4 3rd Floor Structural
1/8" = 1'-0"



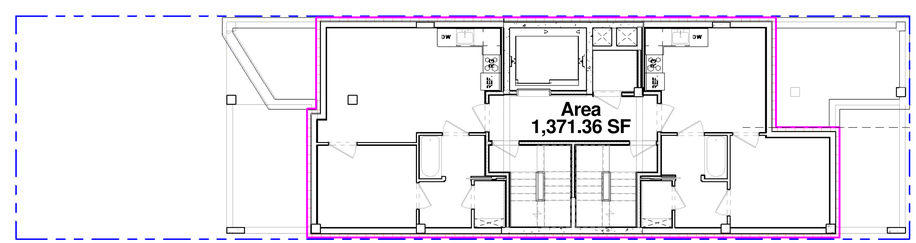
5 4th Floor Structural
1/8" = 1'-0"



6 5th Floor Structural
1/8" = 1'-0"



7 6th Floor Structural
1/8" = 1'-0"



8 7th Floor Structural
1/8" = 1'-0"

Area Schedule (Gross Building)

Level	Name	Area
Cellar	MECH/PARKING	2,462.55 SF
1st Floor Structural	Area	1,990.80 SF
2nd Floor Structural	Area	1,625.13 SF
3rd Floor Structural	Area	1,625.10 SF
4th Floor Structural	Area	1,625.10 SF
5th Floor Structural	Area	1,625.10 SF
6th Floor Structural	Area	1,625.10 SF
7th Floor Structural	Area	1,371.36 SF
Grand total		13,950.24 SF

Revision No.	Date	Remarks

DOB APPLICATION NO.
****

SCARANO ARCHITECTS
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11229

Title:
ZONING GROSS AREA COMPUTATION

DWG #
Z-002.00

Signature:

Seal:

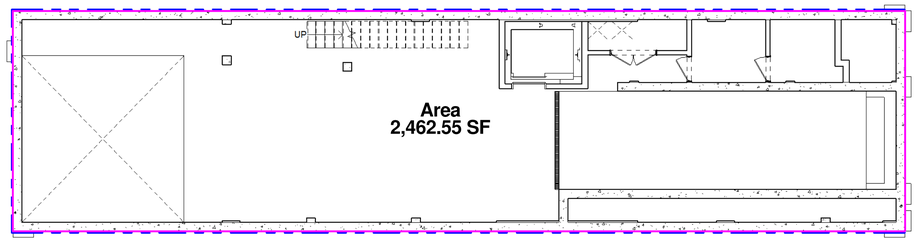
Date: 04/26/13

Scale: 1/8" = 1'-0"

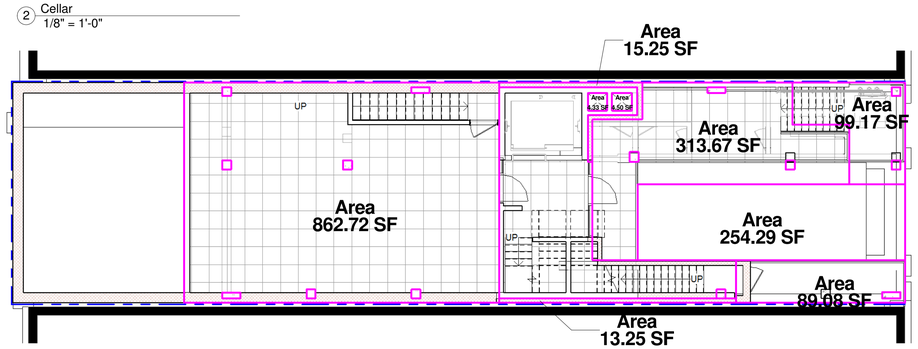
Drawn: Designer

Job # 32157

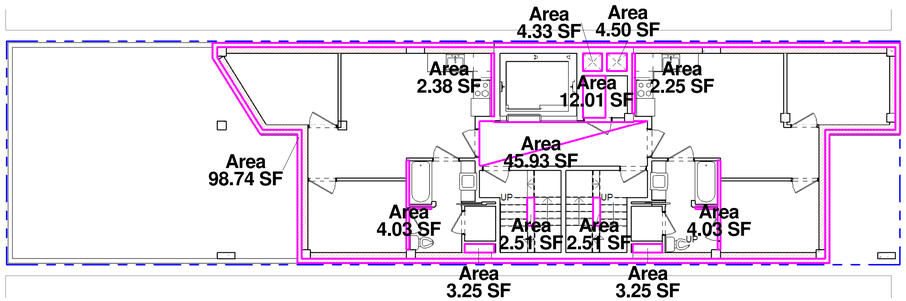
Checked: Checker



2 Cellar
1/8" = 1'-0"



1 1st Floor Structural
1/8" = 1'-0"



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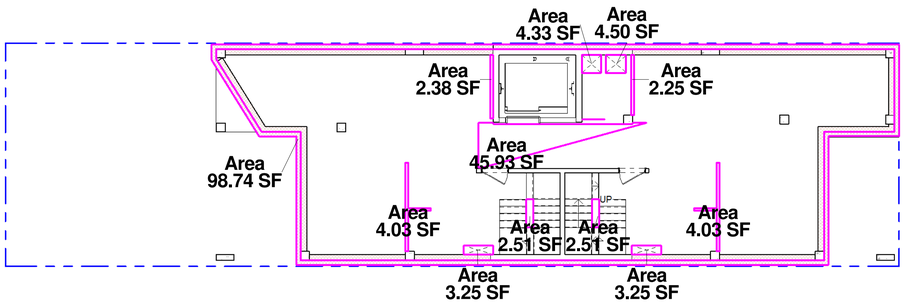
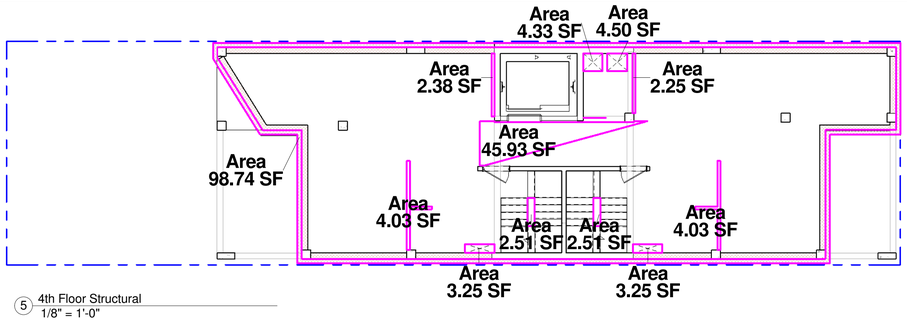
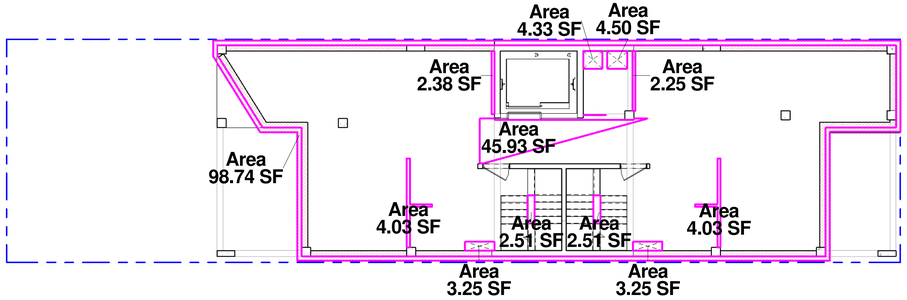
1/8" = 1'-0"



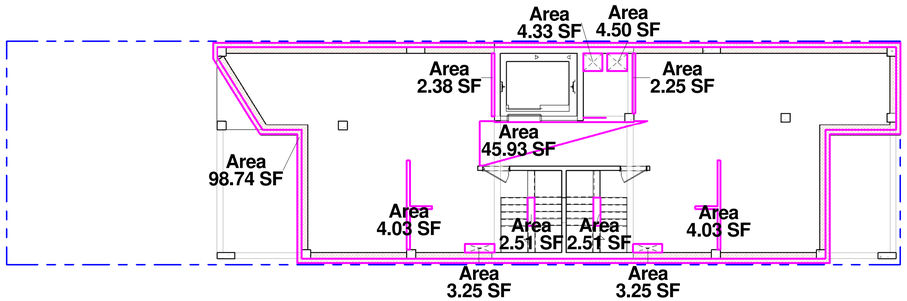
4 3rd Floor Structural
1/8" = 1'-0"



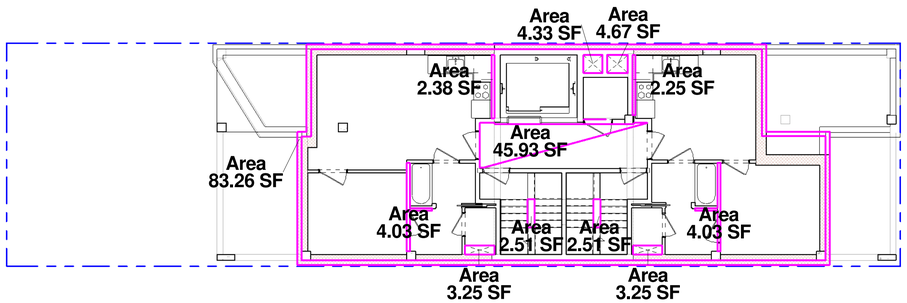
5 4th Floor Structural
1/8" = 1'-0"



6 5th Floor Structural
1/8" = 1'-0"



7 6th Floor Structural
1/8" = 1'-0"



8 7th Floor Structural
1/8" = 1'-0"

Area Schedule (Deduction)

Level	Comments	Name	Area
Cellar		Area	2,462.55 SF
Cellar			2,462.55 SF
1st Floor Structural		Area	4.33 SF
1st Floor Structural		Area	4.50 SF
1st Floor Structural		Area	13.25 SF
1st Floor Structural		Area	15.25 SF
1st Floor Structural		Area	89.08 SF
1st Floor Structural		Area	99.17 SF
1st Floor Structural		Area	254.29 SF
1st Floor Structural		Area	313.67 SF
1st Floor Structural		Area	862.72 SF
1st Floor Structural			1,656.27 SF
2nd Floor Structural		Area	2.25 SF
2nd Floor Structural		Area	2.38 SF
2nd Floor Structural		Area	5.01 SF
2nd Floor Structural		Area	6.50 SF
2nd Floor Structural		Area	8.05 SF
2nd Floor Structural		Area	4.33 SF
2nd Floor Structural		Area	4.50 SF
2nd Floor Structural		Area	12.01 SF
2nd Floor Structural		Area	45.93 SF
2nd Floor Structural		Area	98.74 SF
2nd Floor Structural			189.71 SF
3rd Floor Structural		Area	2.25 SF
3rd Floor Structural		Area	2.38 SF
3rd Floor Structural		Area	5.01 SF
3rd Floor Structural		Area	6.50 SF
3rd Floor Structural		Area	8.05 SF
3rd Floor Structural		Area	4.33 SF
3rd Floor Structural		Area	4.50 SF
3rd Floor Structural		Area	45.93 SF
3rd Floor Structural		Area	98.74 SF
3rd Floor Structural			177.70 SF
4th Floor Structural		Area	2.25 SF
4th Floor Structural		Area	2.38 SF
4th Floor Structural		Area	5.01 SF
4th Floor Structural		Area	6.50 SF
4th Floor Structural		Area	8.05 SF
4th Floor Structural		Area	4.33 SF
4th Floor Structural		Area	4.50 SF
4th Floor Structural		Area	45.93 SF
4th Floor Structural		Area	98.74 SF
4th Floor Structural			177.70 SF
5th Floor Structural		Area	2.25 SF
5th Floor Structural		Area	2.38 SF
5th Floor Structural		Area	5.01 SF
5th Floor Structural		Area	6.50 SF
5th Floor Structural		Area	8.05 SF
5th Floor Structural		Area	4.33 SF
5th Floor Structural		Area	4.50 SF
5th Floor Structural		Area	45.93 SF
5th Floor Structural		Area	98.74 SF
5th Floor Structural			177.70 SF
6th Floor Structural		Area	2.25 SF
6th Floor Structural		Area	2.38 SF
6th Floor Structural		Area	5.01 SF
6th Floor Structural		Area	6.50 SF
6th Floor Structural		Area	8.05 SF
6th Floor Structural		Area	4.33 SF
6th Floor Structural		Area	4.50 SF
6th Floor Structural		Area	45.93 SF
6th Floor Structural		Area	98.74 SF
6th Floor Structural			177.70 SF
7th Floor Structural		Area	2.25 SF
7th Floor Structural		Area	2.38 SF
7th Floor Structural		Area	5.01 SF
7th Floor Structural		Area	6.50 SF
7th Floor Structural		Area	8.05 SF
7th Floor Structural		Area	4.33 SF
7th Floor Structural		Area	4.67 SF
7th Floor Structural		Area	45.93 SF
7th Floor Structural		Area	83.26 SF
7th Floor Structural			162.39 SF
Grand total			5,181.72 SF

Revision No.	Date	Remarks

DOB APPLICATION NO.
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Project:
415 MANHATTAN AVENUE
BROOKLYN N.Y. 11229

Title:
ZONING DEDUCTION AREA COMPUTATIONS

DWG #
Z-003.00

Signature:

Seal:

Date: 04/26/13
Scale: 1/8" = 1'-0"
Drawn: Designer
Job #: 32157
Checked: Checker

APPENDIX C

Health and Safety Plan

INTERIM REMEDIAL MEASURES
HEALTH AND SAFETY PLAN

NYC VOLUNTARY CLEANUP SITE
415 Manhattan Avenue
Brooklyn, New York

AUGUST, 2013
***LEA* PROJECT # 12-409**

Sheila Bubka, CIH
Health and Safety Officer
AIHA Certification Number 6111

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HEALTH AND SAFETY PLAN
FOR USE DURING REMEDIAL INVESTIGATION REPORT

1.0 PURPOSE

The purpose of this Health and Safety Plan (HASP) is to assign responsibilities, establish minimum personnel protection standards and operating procedures and provide for contingencies that may arise while operations are being performed at the subject site, 415 Manhattan Avenue, Brooklyn, New York.

Laurel Environmental Associates, Ltd. (LEA) and it subcontractors will be responsible for providing materials, equipment and labor required by the HASP. The protocols of the HASP will be followed by all personnel involved in the work, including employees and agents of Contractors, Subcontractors and Owner. Mr. Scott A. Yanuck, ***LEA*** Hydrologist, and Thomas H. Johansen, Geologist, are the Project Managers, Sheila Bubka is the Health and Safety Officer, and Carla Sullivan is the Quality Assurance/Quality Control Officer for the project.

This HASP establishes the minimum level of personnel protection. Additional measures will be implemented if necessary to protect personnel involved in the work and the public at large.

Conditions at the site are not expected to warrant either Level B or Level C protection during the investigation based on known site conditions. Regardless, all workers present on site will be familiar with proper protection procedures and the HASP. All personnel scheduled to work at the site are 40-hour OSHA HAZWOPER CFR 1910.120 trained, with 8-hour refreshers up to date.

Given the scope of the work, and the type of contaminants on-site, there is a low potential of the surrounding community being negatively impacted by activities which will be conducted during this investigation. ***Laurel Environmental Associates, Ltd.*** will take every possible step to avoid any type of negative impact.

The Site is currently a two-story walk up residential apartment building. Soils will be field screened with a Photoionization Detector (PID) to determine the presence of organic contamination. If an emergency occurs during the measures, which in any event may impact the surrounding community, all appropriate emergency resources listed under the Emergency Contingency Plan Section of this plan will be immediately notified.

2.0 HAZARD EVALUATION

Elevated levels of volatile organic compounds (VOCs) in the atmosphere are not expected to occur during on-site activities. However, the presence of VOCs will be evaluated using a Photoionization Detector (PID). Results from the air monitoring will determine if Level D personnel protection of workers is appropriate or a higher level of protection is required.

During all activities, ***LEA*** personnel will monitor the area around the excavation using a PID to ensure that the appropriate worker protection is maintained for the level of pollutants found. If air monitoring indicates contaminant concentrations pose a risk to workers, the area will be immediately evacuated. Guidelines that will be followed before continuing are noted in Table 1 on the following page. If conditions warrant, Level B and C protection will be worn.

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Table 1
Atmospheric Hazard Guidelines

Hazard	Monitoring Equipment	Measured Level	Action
Explosive Atmosphere	Combustible Gas Indicator	<10% LEL	Continue investigation.
		10%-20% LEL	Continue on-site monitoring with extreme caution as higher levels are encountered.
		>20% LEL	Explosion hazard. Withdraw from area immediately.
Oxygen	Multi RAE	Oxygen conc.	
		<19.5%	Withdraw from area. NOTE: Combustible gas readings are not valid in atmosphere with oxygen levels of less than 19.5%
		19.5% - 23.5%	Continue investigation with caution.
		>23.5%	Fire hazard potential. Discontinue investigation. Withdraw from area.
Organic gases and vapors	PID	Background	Continue work
		5 ppm	Temporarily halt work until average readings drop below 5 ppm
		5 - 25 ppm	Halt work, identify and remedy or abate source Continue work once average readings drop below 5 ppm
		Above 15 ppm	Work must be shut down. Evaluate alternative approaches

Notes:
1. LEL = Lower Explosive Limit

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3.0 SITE CONTROL

3.1 Site Work Locations:

Activities involving soil, groundwater and soil vapor sampling will be performed throughout the Subject Site. The work areas are the locations in which the actual activities will occur. Workers entering these areas are required to be protected as defined below. Only authorized personnel, including personnel conducting the work activities involved, and specialized personnel such as subcontractors engaged in well installation and operation of heavy equipment, will be allowed in the work areas. Within the work areas, the levels of protection will be determined based on the degree of hazard present, as detected by the measurements obtained with the PID, and/or other activity-specific monitoring equipment. As an engineering control, a regenerative air blower may be used to reduce the potential for dangerous concentrations of VOCs in the breathing zone near the excavation, if warranted.

3.2 Work Zones:

Work zones will be defined prior to the commencement of work activities. These work zones will limit equipment, operations and personnel in the areas as defined below:

Exclusion Zone - This shall include all areas where potential environmental monitoring has shown or is suspected that a potential chemical hazard may exist to workers. This will include down-wind locations. If a chemical hazard exists at downwind locations, the exclusion zone will be expanded as necessary. The level of PPE required in these areas shall be determined by the Site HSO after air monitoring and on-Site inspection has been conducted. The area shall be clearly delineated from the decontamination area. As work proceeds, the delineation boundary shall be relocated as necessary to prevent the accidental contamination of nearby people and equipment.

Contamination Reduction Zone - This zone will occur at the interface between the Exclusion Zone ("Hot Zone") and Support Zone ("Clean Zone") and shall provide a transfer of personnel and equipment to and from the Support Zone to the Exclusion Zone. This zone is for the decontamination of personnel and equipment prior to entering the Support Zone, and for the physical segregation of the Support Zone and Exclusion Zone. The contamination reduction zone will be placed along the rear alleyway, as close to the Site as possible. Access to the alleyway by the public and employees of commercial business will be restricted during the RIR.

Support Zone - This area is the remainder of the work Site and project Site. The support zone will be staged near company vehicles on East Park Avenue and/or East Chester Street. The function of the Support Zone includes:

A. An entry area for personnel, material and equipment to the Exclusion Zone of site operations through the Contamination Reduction Zone
B. An Exit for decontamination personnel, materials and equipment from the "Decon" area of Site operations
C. The Housing of Site special services
D. A storage area for clean safety and work equipment

Small decontamination areas may be set up adjacent to the work area to facilitate decontamination of equipment that is reused throughout the field activity.

3.3 Dust and Odors:

If during sampling, dust or odors emanating from contaminated soils are deemed excessive at adjoining properties and commercial businesses, the sampling process will include misting with water to keep dust levels to a minimum.

3.4 Security:

Periodic security patrols will be conducted to ensure that adequate security is being maintained. Only workers authorized by the field manager may be allowed to enter the Site. Warning signs will be posted to discourage entry by unauthorized personnel. The HSO will brief all visitors of all security and safety plans.

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3.5 Site Communications:

Communications on-Site will be conducted through verbal communications. When out of audible range, verbal communications may be assisted using mobile telephones and two-way radios.

4.0 PERSONAL PROTECTIVE EQUIPMENT

All on-site workers will be familiar with proper protection procedures and this Health and Safety Plan. Level D personal protective clothing will be worn at the outset.

As stated above Level B or C protection will be worn as required. General descriptions of Level C and B protection are presented in Tables 2 and 3 on the following page, respectively. If it is necessary to wear Level B or C protection, the work area shall be separated into three Zones: an Exclusion Zone, a Contamination Reduction Zone, and a Support Zone. No one but protected personnel shall be in the Exclusion and Contamination Reduction Zones. An entrance and exit point shall be designated and monitored to ensure that no unauthorized personnel enter the area. Everyone that enters the area shall log in the field note book with the length of time spent in the area and the task performed noted.

All workers shall wear gloves when handling soil/sludge and apparatus. Gloves shall also be worn while cleaning the sampling equipment.

If any personnel must be lowered into a confined spaces additional procedures must be followed. ***LEA*** will provide the confined space procedures. ***LEA*** will monitor the confined space prior to entry and complete the confined space permit. If needed, dilution or exhaust ventilation will be provided to lower contaminant levels.

All persons working in the confined space must have confined space awareness training and a confined space supervisor must be present. ***LEA*** will perform continuous air monitoring for oxygen, flammability and toxins. At a minimum, carbon monoxide and hydrogen sulfide will be monitored in addition to other site-specific chemicals determined to be a hazard. All personnel working in or monitoring the confined space activities must be properly OSHA confined space entry trained. An approved safety harness and tripod will be employed. Personnel at grade will be constantly monitoring the worker in the pool for signs of fatigue, heat stress or behavior change.

Table 2
LEVEL C PROTECTION

1. Full-face or half-mask, air purifying, canister equipped respirators (NIOSH approved) for those contaminants present.
2. Hooded chemical resistant clothing: (overalls; two-piece chemical-splash-suit; disposable chemical-resistant overalls).
3. Coveralls*
4. Gloves, outer, chemical-resistant
5. Gloves, inner, chemical-resistant
6. Boots (outer), chemical-resistant, steel toe and shank
7. Boot-covers, outer, chemical-resistant, (disposable)*
8. Hard hat
9. Escape mask*
10. Two-way radios (worn under outside protective clothing)
11. Face shield*

*Optional, as applicable.

Table 3
LEVEL B PROTECTION

1. Pressure-demand, full-faceplate self-contained breathing apparatus (SCBA), or pressure demand supplied air respirator with escape SCBA (NIOSH approved)
2. Hooded chemical-resistant clothing (overalls and long-sleeved shirts) jacket; coveralls; one or two-piece chemical-splash suit; disposable chemical-resistant overalls).
3. Coveralls*
4. Gloves, outer chemical-resistant
5. Gloves, inner, chemical-resistant.
6. Boots, outer, chemical resistant steel toe and shank
7. Boot-covers, outer, chemical-resistant (disposable)
8. Hard hat
9. Two-way radios (worn inside encapsulating suit)
10. Face shield*

* Optional, as applicable

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5.0 PERSONNEL SAFETY/HYGIENE

The safety practices to be followed by all on-site personnel include:

1. If Level B or C protection must be worn, eating, drinking, chewing gum or tobacco, smoking or any practice that increases the probability of hand-to-mouth transfer and ingestion of materials is prohibited in the Exclusion and Contamination Reduction Zones. All workers must be trained, medically qualified and fit tested in the use of respirators.

2. Hands and face must be thoroughly washed before eating, drinking or any other personal hygiene activities.

3. No excessive facial hair, which interferes with a satisfactory fit of the mask to face seal, is allowed for personnel to wear respiratory protective equipment.

6.0 PERSONNEL TRAINING

At the start of the job before engaging in any work, all personnel will be briefed on the following:

1. The person in charge as safety officer
2. Boundaries, entry and exit point locations of the work zones, if established
3. Use of personnel protection equipment
4. Principles of personnel hygiene
5. Location of first-aid equipment
6. Evacuation procedures to be followed in case of emergencies
7. Heat stress symptoms. All personnel will be advised to watch for signs of heat stress.

New personnel will be briefed on the same points prior to starting work at the site.

7.0 DECONTAMINATION PROCEDURES

If Level B or C protection is worn, decontamination procedures shall be performed in the Contamination Reduction Zone. All disposable garments and spent cartridges/canisters from respiratory equipment will be stored, transported, and properly disposed of in DOT approved 55-gallon drums. Potentially contaminated equipment will be cleaned before leaving the site.

8.0 EMERGENCY CONTINGENCY PLAN

In the event of physical injury, the safety officer or any other qualified person will initiate first aid and, if necessary, call the ambulance. If a chemical exposure is encountered, a physician will be informed, as specifically as possible, of the chemical(s) to which the person had been exposed and the toxicological properties of the chemical(s).

In case of any emergency, the following resources might need to be contacted:

A. Local Resource
   Fire Department: **911**
   Police Department: **911**

B. Hazardous Waste Spills
   New York State Department of Environmental Conservation **1-800-457-7362**
   New York City Health, **212-788-5099**
   Laurel Environmental Associates, Ltd.: Nights and Weekend Emergencies **516-971-6332**

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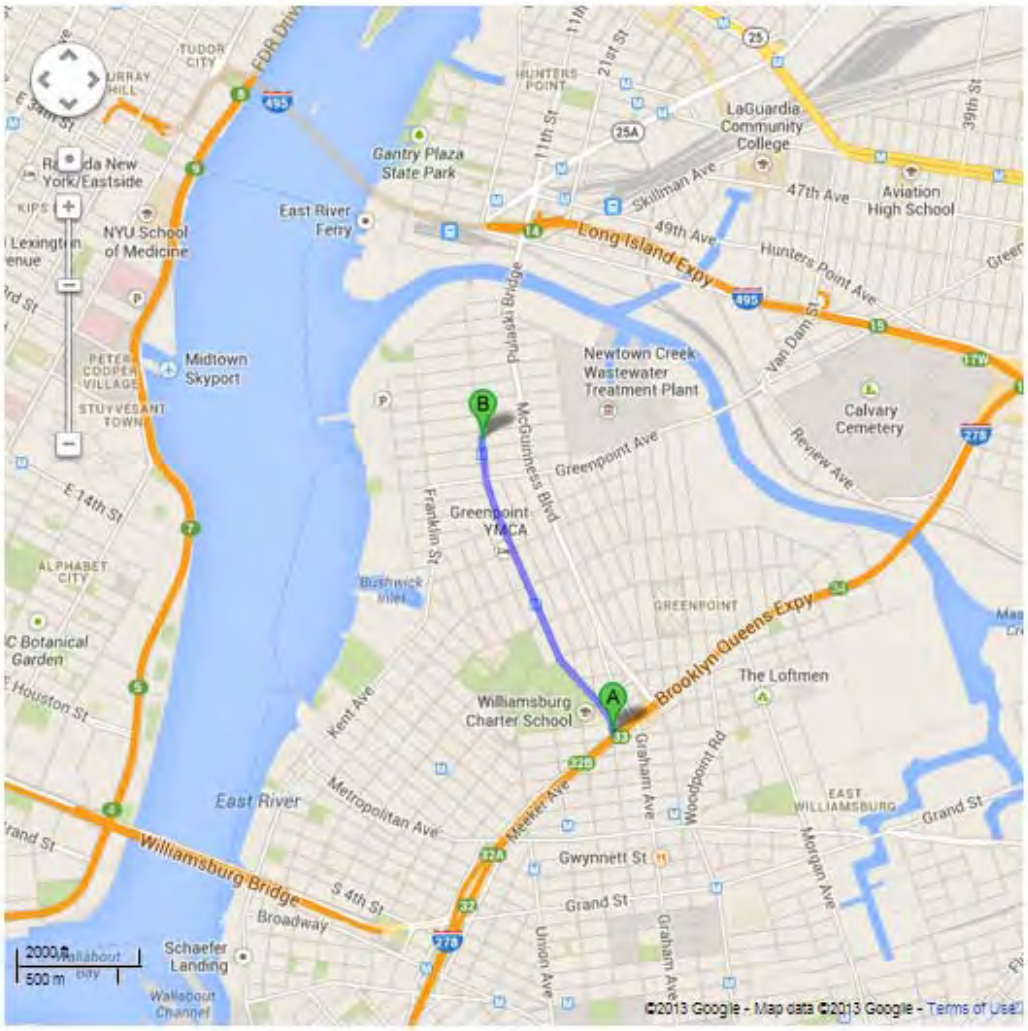
C. Hospital



A 415 Manhattan Ave, Brooklyn, NY 11222

1. Head **north** on **Manhattan Ave** toward **Bayard St** — go 1.0 mi
   Destination will be on the right — total 1.0 mi
   About 4 mins

B **The Brooklyn Hospital Center: Manhattan Avenue Health Center**
960 Manhattan Ave, Brooklyn, NY 11222

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9.0 HEAT STRESS CASUALTY PREVENTION PLAN

A. Identification and Treatment

1) **HEAT EXHAUSTION**

Symptoms: Usually begins with muscular weakness, dizziness and a staggering gait. Vomiting is frequent. The bowels may move involuntarily. The victim is very pale, his/her skin is clammy and he/she may perspire profusely. The pulse is weak and fast, breathing is shallow. He/she may faint unless he/she lies down. This may pass, but sometimes it remains and death could occur.

First Aid: Immediately remove the victim to a shady or cool area with good air circulation. Remove all protective outerwear. Call a physician. Treat the victim for shock. (Make him lie down, raise his feet 6-12 inches, and keep him warm but loosen all clothing). If the victim is conscious, it may be helpful to give him sips of a salt water solution (1 teaspoon of salt to 1 glass of water). Transport victim to a medical facility.

2) **HEAT STROKE**

Symptoms: This is the most serious of heat casualties due to the fact that the body excessively overheats. Body temperatures are often are between 107°-110°F. There is often pain in the head, dizziness, nausea, oppression, and a dryness of the skin and mouth. Unconsciousness follows quickly and death is imminent if exposure continues. The attack will usually occur suddenly.

First Aid: Immediately evacuate the victim to a cool and shady area. Remove all protective outer wear and all personal clothing. Lay him on his back with the head and shoulders slightly elevated. It is imperative that the body temperature be lowered immediately. This can be accomplished by applying cold wet towels, ice bags, etc., to the head. Sponge off the bare skin with cool water or rubbing alcohol, if available, or even place him in a tub of cool water. The main objective is to cool him without chilling him. Give no stimulants. Transport the victim to a medical facility as soon as possible.

B. **Prevention of Heat Stress**

1) One of the major causes of heat casualties is the depletion of body fluids. On-site there will be plenty of fluids available. Personnel should replace water and salts lost from perspiration. Salts can be replaced by either a 0.1% salt solution, more heavily salted foods, or commercial mixes such as Gatorade®.

2) A work schedule will be established so that the majority of the work day will be during the morning hours of the day before ambient air temperature levels reach their highs if high air temperatures are anticipated.

3) A work/rest guideline will be implemented for personnel required to wear Level B protection, if this situation arises. This guideline is as follows:

Ambient Temperatures	***Maximum Working Time***
Above 90°F	< 1 hour
80° - 90° F	1 hour
70 °- 80° F	2 hours
60 °- 70° F	3 hours
50 °- 60° F	4 hours
40° - 50°F	5 hours
30° - 40° F	6 hours
Below 30° F	8 hours

A sufficient period will be allowed for personnel to "cool down". This may require separate shifts of workers during operations.

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LOG FOR ALL PERSONNEL ENTERING THE SUBJECT PROPERTY

SITE:

LOCATION:

The undersigned certify that they have read this Health and Safety Plan document, understand it, and will comply with its provisions.

Name (Please Print)	Affiliation	Date	Time
1.			
2.			
3.			
4.			
5.			
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15.			

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APPENDIX D

Soil Boring Geologic Logs

LAUREL ENVIRONMENTAL ASSOCIATES, LTD.

SOIL BORING LOG DATE: 6-25-2013

Client:	Chris Cielepak	Boring ID.	SB-1
Site Name:	The Manhattan	Boring Location:	West Side of Property
Site Location:	415 Manhattan, Brooklyn, NY	Surface Elev. (ft):	Relative to Grade
LEA Job#:	12-409	DTW (ft) :	7

Field Geologist:	Tom Johansen	Drill Type:	420M Geoprobe®
Driller:	Steven Bitetto	Sample Type:	Split_____
Weather Cond.	Sunny		Grab____
Temp:	80°F		Core_X__

SOIL TYPE CODES	
Well graded gravels or gravel/sand mix (GW)	
Poorly graded gravels or gravel/sand mix (GP)	
Well graded sands, gravelly sands, no fines (SW)	
Poorly graded sands, gravelly sands, no fines (SP)	
Silty sands, sand silt mixtures (SM)	
Inorganic silts, fine sand, silty-clayey fine sands (ML)	
Inorganic clays, gravely/ sandy clays, silty clays (CL)	
Organic silts, organic silty clays of low plasticity (OL)	
Organic clays of med. to high plasticity, organic silts (OH)	
Peat and other highly organic soils (PT)	
Bedrock etc. (BD)	
Other (fill, etc)	

Ft.	Boring Profile*	PID (ppm)	Description/Remarks
0	NA	0.0	Black well graded sands, no odor
1	SP	0.0	Black well graded sands with rock, no odor
2	SP	0.0	Brown sands, no odor
3	SP	0.0	Brown sands, no odor
4	SP	0.0	Brown sands, no odor
5	SM	0.0	Brown sands, no odor
6	SM	0.0	Brown sands, no odor
7	SM	0.0	Brown sands, no odor
8	SM	0.0	Dark brown silty sands, GW encountered
9	SM	0.0	Dark brown silty sands, boggy odor
10	SM	0.0	Dark brown silty sands, boggy odor
11	SM	0.0	Dark brown silty sands, boggy odor
12	SM	0.0	Dark brown silty sands, boggy odor

Notes:

* =Depth relative to grade

LAUREL ENVIRONMENTAL ASSOCIATES, LTD.

SOIL BORING LOG DATE: 6-25-2013

Client:	Chris Cielepak	Boring ID.	SB-2
Site Name:	The Manhattan	Boring Location:	NW side of Building
Site Location:	415 Manhattan, Brooklyn, NY	Surface Elev. (ft):	Relative to Grade
LEA Job#:	12-409	DTW (ft) :	7

Field Geologist:	Tom Johansen	Drill Type:	420M Geoprobe®
Driller:	Steven Bitetto	Sample Type:	Split_____
Weather Cond.	Sunny		Grab____
Temp:	80°F		Core_X__

SOIL TYPE CODES

- Well graded gravels or gravel/sand mix (GW)
- Poorly graded gravels or gravel/sand mix (GP)
- Well graded sands, gravelly sands, no fines (SW)
- Poorly graded sands, gravelly sands, no fines (SP)
- Silty sands, sand silt mixtures (SM)
- Inorganic silts, fine sand, silty-clayey fine sands (ML)
- Inorganic clays, gravely/ sandy clays, silty clays (CL)
- Organic silts, organic silty clays of low plasticity (OL)
- Organic clays of med. to high plasticity, organic silts (OH)
- Peat and other highly organic soils (PT)
- Bedrock etc. (BD)
- Other (fill, etc)

Notes:

Ft.	Boring Profile*	PID (ppm)	Description/Remarks
0	NA	0.0	Concrete
1	SP	0.0	Black well graded sands with rock, no odor
2	SP	0.0	Brown sands with rock and fill, no odor
3	SP	0.0	Brown sands with rock and fill, no odor
4	GP	0.0	Fill material, no odor
5	GP	0.0	Bricks
6	SP	0.0	Brown rocky sands, no odor
7	SP	0.0	Brown rocky sands, no odor
8	SP	0.0	Well graded rocky sands
9	SM	0.0	Dark brown silty sands, boggy odor
10	SM	0.0	Dark brown silty sands, boggy odor
11	SM	0.0	Dark brown silty sands, boggy odor
12	SM	0.0	Dark brown silty sands, boggy odor

* =Depth relative to grade

LAUREL ENVIRONMENTAL ASSOCIATES, LTD.

SOIL BORING LOG DATE: 6-25-2013

Client:	Chris Cielepak	Boring ID.	SB-3
Site Name:	The Manhattan	Boring Location:	East side in the Basement
Site Location:	415 Manhattan, Brooklyn, NY	Surface Elev. (ft):	Relative to Grade
LEA Job#:	12-409	DTW (ft) :	7

Field Geologist:	Tom Johansen	Drill Type:	420M Geoprobe®
Driller:	Steven Bitetto	Sample Type:	Split_____
Weather Cond.	Sunny		Grab____
Temp:	80°F		Core_X__

SOIL TYPE CODES

- Well graded gravels or gravel/sand mix (GW)
- Poorly graded gravels or gravel/sand mix (GP)
- Well graded sands, gravelly sands, no fines (SW)
- Poorly graded sands, gravelly sands, no fines (SP)
- Silty sands, sand silt mixtures (SM)
- Inorganic silts, fine sand, silty-clayey fine sands (ML)
- Inorganic clays, gravely/ sandy clays, silty clays (CL)
- Organic silts, organic silty clays of low plasticity (OL)
- Organic clays of med. to high plasticity, organic silts (OH)
- Peat and other highly organic soils (PT)
- Bedrock etc. (BD)
- Other (fill, etc)

Notes:

Ft.	Boring Profile*	PID (ppm)	Description/Remarks
0	NA	NA	Void
1	NA	NA	Void
2	NA	NA	Void
3	NA	NA	Void
4	NA	NA	Void
5	NA	NA	Void
6	SP	0.0	Gravely sands, no odor
7	SP	0.0	Gravely sands, no odor
8	SP	0.0	Gravely sands, no odor
9	SM	0.0	Dark brown silty sands, boggy odor
10	SM	0.0	Dark brown silty sands, boggy odor
11	SM	0.0	Dark brown silty sands, boggy odor
12	SM	0.0	Dark brown silty sands, boggy odor

* =Depth relative to grade

APPENDIX E

Soil and Groundwater Raw Laboratory Data

Technical Report

prepared for:

Laurel Environmental
53 West Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Report Date: 07/05/2013
Client Project ID: 415 Manhattan Ave Brooklyn, NY
York Project (SDG) No.: 13F0911

CT Cert. No. PH-0723 New Jersey Cert. No. CT-005 New York Cert. No. 10854 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 07/05/2013
Client Project ID: 415 Manhattan Ave Brooklyn, NY
York Project (SDG) No.: 13F0911

Laurel Environmental
53 West Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 26, 2013 and listed below. The project was identified as your project: **415 Manhattan Ave Brooklyn, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0911-01	SB-1 (0-2')	Soil	06/25/2013	06/26/2013
13F0911-02	SB-1 (10-12')	Soil	06/25/2013	06/26/2013
13F0911-03	SB-2 (0-2')	Soil	06/25/2013	06/26/2013
13F0911-04	SB-2 (10-12')	Soil	06/25/2013	06/26/2013
13F0911-05	SB-3 (6-8')	Soil	06/25/2013	06/26/2013
13F0911-06	GW-1 (7-12')	Water	06/25/2013	06/26/2013
13F0911-07	GW-2 (7-12')	Water	06/25/2013	06/26/2013
13F0911-08	GW-3 (7-12')	Water	06/25/2013	06/26/2013
13F0911-09	DUP-GW	Water	06/25/2013	06/26/2013
13F0911-10	Field Blank	Water	06/25/2013	06/26/2013
13F0911-11	Trip Blank	Water	06/25/2013	06/26/2013
13F0911-12	DUP-SB	Soil	06/25/2013	06/26/2013

General Notes for York Project (SDG) No.: 13F0911

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 07/05/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: **SB-1 (0-2')** **York Sample ID:** **13F0911-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	130	250	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
78-93-3	2-Butanone	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
67-64-1	Acetone	ND		ug/kg dry	6.3	25	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
71-43-2	Benzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
108-86-1	Bromobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
75-25-2	Bromoform	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS

Sample Information

Client Sample ID: **SB-1 (0-2')** **York Sample ID:** **13F0911-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
75-00-3	Chloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
67-66-3	Chloroform	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
74-87-3	Chloromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
74-95-3	Dibromomethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
75-09-2	**Methylene chloride**	**17**	J	ug/kg dry	6.3	25	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
91-20-3	Naphthalene	ND		ug/kg dry	6.3	25	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
95-47-6	o-Xylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	13	25	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
100-42-5	Styrene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
108-88-3	Toluene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS

Sample Information

Client Sample ID: **SB-1 (0-2')** **York Sample ID:** **13F0911-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/kg dry	19	38	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:05	SS

Semi-Volatiles, PAH Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2400	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
83-32-9	Acenaphthene	ND		ug/kg dry	1130	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1500	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
120-12-7	**Anthracene**	**1930**	J	ug/kg dry	1710	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
56-55-3	**Benzo(a)anthracene**	**6440**		ug/kg dry	1170	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
50-32-8	**Benzo(a)pyrene**	**7160**		ug/kg dry	1240	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
205-99-2	**Benzo(b)fluoranthene**	**6460**		ug/kg dry	2620	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
191-24-2	**Benzo(g,h,i)perylene**	**3860**		ug/kg dry	1040	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
207-08-9	**Benzo(k)fluoranthene**	**5720**		ug/kg dry	3130	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
218-01-9	**Chrysene**	**6160**		ug/kg dry	1440	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
53-70-3	**Dibenzo(a,h)anthracene**	**1850**	J	ug/kg dry	1260	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
206-44-0	**Fluoranthene**	**13400**		ug/kg dry	1830	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
86-73-7	Fluorene	ND		ug/kg dry	1500	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4120**		ug/kg dry	1430	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
91-20-3	Naphthalene	ND		ug/kg dry	769	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
85-01-8	**Phenanthrene**	**8900**		ug/kg dry	1630	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR
129-00-0	**Pyrene**	**9650**		ug/kg dry	1280	3130	10	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 13:21	SR

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
309-00-2	Aldrin	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	21.3	21.3	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:06	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	21.3	21.3	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:06	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	21.3	21.3	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:06	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	21.3	21.3	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:06	JW

Sample Information

Client Sample ID: **SB-1 (0-2')** **York Sample ID:** **13F0911-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		ug/kg dry	21.3	21.3	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:06	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	21.3	21.3	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:06	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	21.3	21.3	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:06	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
57-74-9	Chlordane, total	ND		ug/kg dry	8.26	8.26	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
72-20-8	Endrin	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.06	2.06	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
72-43-5	Methoxychlor	ND		ug/kg dry	10.3	10.3	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW
1336-36-3	Total PCBs	ND		ug/kg dry	8.51	21.3	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:06	JW
8001-35-2	Toxaphene	ND		ug/kg dry	104	104	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:35	JW

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5500**		mg/kg dry	1.28	2.50	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-36-0	**Antimony**	**47.4**		mg/kg dry	0.275	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-38-2	**Arsenic**	**22.6**		mg/kg dry	0.425	1.25	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-39-3	**Barium**	**469**		mg/kg dry	0.163	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.125	0.125	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-43-9	**Cadmium**	**3.69**		mg/kg dry	0.125	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-70-2	**Calcium**	**3840**		mg/kg dry	0.050	6.26	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-47-3	**Chromium**	**20.9**		mg/kg dry	0.150	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-48-4	**Cobalt**	**7.42**		mg/kg dry	0.100	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-50-8	**Copper**	**615**		mg/kg dry	0.150	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7439-89-6	**Iron**	**30700**		mg/kg dry	0.813	2.50	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW

Sample Information

Client Sample ID: **SB-1 (0-2')** **York Sample ID:** **13F0911-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**3700**		mg/kg dry	0.213	0.375	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7439-95-4	**Magnesium**	**850**		mg/kg dry	0.563	6.26	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7439-96-5	**Manganese**	**288**		mg/kg dry	0.138	1.25	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-02-0	**Nickel**	**28.4**		mg/kg dry	0.163	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-09-7	**Potassium**	**597**		mg/kg dry	4.23	12.5	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7782-49-2	**Selenium**	**4.19**		mg/kg dry	0.626	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-22-4	Silver	ND		mg/kg dry	0.125	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-23-5	**Sodium**	**274**		mg/kg dry	6.59	12.5	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-28-0	Thallium	ND		mg/kg dry	0.400	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-62-2	**Vanadium**	**50.8**		mg/kg dry	0.138	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW
7440-66-6	**Zinc**	**1450**		mg/kg dry	0.113	0.626	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:05	MW

Mercury by 7470/7471

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0413	0.0413	1	EPA SW846-7471	07/02/2013 19:15	07/03/2013 01:44	AA

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.9**		%	0.100	0.100	1	SM 2540G	06/30/2013 11:19	06/30/2013 13:43	SC

Sample Information

Client Sample ID: **SB-1 (10-12')** **York Sample ID:** **13F0911-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS

Sample Information

Client Sample ID: **SB-1 (10-12')** **York Sample ID:** **13F0911-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	130	250	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
78-93-3	**2-Butanone**	**31**		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
67-64-1	**Acetone**	**130**		ug/kg dry	6.3	25	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
71-43-2	Benzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
108-86-1	Bromobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
75-25-2	Bromoform	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
74-83-9	Bromomethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
75-00-3	Chloroethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
67-66-3	Chloroform	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
74-87-3	Chloromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS

Sample Information

Client Sample ID: **SB-1 (10-12')** **York Sample ID:** **13F0911-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
74-95-3	Dibromomethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
75-09-2	**Methylene chloride**	**15**	J	ug/kg dry	6.3	25	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
91-20-3	Naphthalene	ND		ug/kg dry	6.3	25	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
95-47-6	o-Xylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	13	25	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
100-42-5	Styrene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
108-88-3	Toluene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	6.3	13	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	19	38	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 03:41	SS

Sample Information

Client Sample ID: **SB-1 (10-12')** **York Sample ID:** **13F0911-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Semi-Volatiles, PAH Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	242	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
83-32-9	**Acenaphthene**	**181**	J	ug/kg dry	114	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	151	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
120-12-7	**Anthracene**	**437**		ug/kg dry	172	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
56-55-3	**Benzo(a)anthracene**	**660**		ug/kg dry	118	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
50-32-8	**Benzo(a)pyrene**	**646**		ug/kg dry	125	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
205-99-2	**Benzo(b)fluoranthene**	**396**		ug/kg dry	264	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	104	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
207-08-9	**Benzo(k)fluoranthene**	**480**		ug/kg dry	315	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
218-01-9	**Chrysene**	**610**		ug/kg dry	145	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	126	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
206-44-0	**Fluoranthene**	**1620**		ug/kg dry	184	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
86-73-7	**Fluorene**	**219**	J	ug/kg dry	151	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**254**	J	ug/kg dry	143	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
91-20-3	Naphthalene	ND		ug/kg dry	77.4	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
85-01-8	**Phenanthrene**	**1420**		ug/kg dry	164	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR
129-00-0	**Pyrene**	**1460**		ug/kg dry	128	315	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 03:12	SR

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
309-00-2	Aldrin	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	21.4	21.4	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:25	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	21.4	21.4	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:25	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	21.4	21.4	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:25	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	21.4	21.4	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:25	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	21.4	21.4	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:25	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	21.4	21.4	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:25	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	21.4	21.4	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:25	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW

Sample Information

Client Sample ID: **SB-1 (10-12')** **York Sample ID:** **13F0911-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/kg dry	8.30	8.30	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
72-20-8	Endrin	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.08	2.08	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
72-43-5	Methoxychlor	ND		ug/kg dry	10.4	10.4	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW
1336-36-3	Total PCBs	ND		ug/kg dry	8.56	21.4	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:25	JW
8001-35-2	Toxaphene	ND		ug/kg dry	105	105	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:50	JW

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11000**		mg/kg dry	1.28	2.52	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-36-0	Antimony	ND		mg/kg dry	0.277	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-38-2	**Arsenic**	**3.23**		mg/kg dry	0.428	1.26	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-39-3	**Barium**	**91.7**		mg/kg dry	0.164	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.126	0.126	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.126	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-70-2	**Calcium**	**1670**		mg/kg dry	0.050	6.29	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-47-3	**Chromium**	**16.4**		mg/kg dry	0.151	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-48-4	**Cobalt**	**6.19**		mg/kg dry	0.101	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-50-8	**Copper**	**20.3**		mg/kg dry	0.151	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7439-89-6	**Iron**	**18800**		mg/kg dry	0.818	2.52	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7439-92-1	**Lead**	**88.2**		mg/kg dry	0.214	0.377	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7439-95-4	**Magnesium**	**1990**		mg/kg dry	0.566	6.29	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7439-96-5	**Manganese**	**376**		mg/kg dry	0.138	1.26	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-02-0	**Nickel**	**15.3**		mg/kg dry	0.164	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW

Sample Information

Client Sample ID: **SB-1 (10-12')** **York Sample ID:** **13F0911-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**812**		mg/kg dry	4.25	12.6	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7782-49-2	**Selenium**	**1.54**		mg/kg dry	0.629	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-22-4	Silver	ND		mg/kg dry	0.126	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-23-5	**Sodium**	**189**		mg/kg dry	6.63	12.6	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-28-0	Thallium	ND		mg/kg dry	0.403	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-62-2	**Vanadium**	**22.9**		mg/kg dry	0.138	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW
7440-66-6	**Zinc**	**74.5**		mg/kg dry	0.113	0.629	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:12	MW

Mercury by 7470/7471

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0415	0.0415	1	EPA SW846-7471	07/02/2013 19:15	07/03/2013 01:44	AA

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.5**		%	0.100	0.100	1	SM 2540G	06/30/2013 11:19	06/30/2013 13:43	SC

Sample Information

Client Sample ID: **SB-2 (0-2')** **York Sample ID:** **13F0911-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS

Sample Information

Client Sample ID: **SB-2 (0-2')** **York Sample ID:** **13F0911-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	120	240	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
78-93-3	2-Butanone	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
67-64-1	**Acetone**	**32**		ug/kg dry	6.1	24	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
71-43-2	Benzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
108-86-1	Bromobenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
75-25-2	Bromoform	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
74-83-9	Bromomethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
75-00-3	Chloroethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
67-66-3	Chloroform	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
74-87-3	Chloromethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS

Sample Information

Client Sample ID: **SB-2 (0-2')** **York Sample ID:** **13F0911-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
75-09-2	**Methylene chloride**	**20**	J	ug/kg dry	6.1	24	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
91-20-3	Naphthalene	ND		ug/kg dry	6.1	24	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
95-47-6	o-Xylene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	12	24	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
100-42-5	Styrene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
108-88-3	Toluene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	6.1	12	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	18	37	1	EPA SW846-8260B	07/02/2013 23:10	07/03/2013 04:16	SS

Sample Information

Client Sample ID: **SB-2 (0-2')** **York Sample ID:** **13F0911-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Semi-Volatiles, PAH Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	**2-Methylnaphthalene**	**11800**	J	ug/kg dry	11700	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
83-32-9	**Acenaphthene**	**52800**		ug/kg dry	5530	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	7340	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
120-12-7	**Anthracene**	**66900**		ug/kg dry	8350	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
56-55-3	**Benzo(a)anthracene**	**97200**		ug/kg dry	5720	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
50-32-8	**Benzo(a)pyrene**	**102000**		ug/kg dry	6050	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
205-99-2	**Benzo(b)fluoranthene**	**63500**		ug/kg dry	12800	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
191-24-2	**Benzo(g,h,i)perylene**	**41900**		ug/kg dry	5070	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
207-08-9	**Benzo(k)fluoranthene**	**117000**		ug/kg dry	15300	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
218-01-9	**Chrysene**	**91100**		ug/kg dry	7030	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
53-70-3	**Dibenzo(a,h)anthracene**	**26000**		ug/kg dry	6140	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
206-44-0	**Fluoranthene**	**184000**		ug/kg dry	8960	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
86-73-7	**Fluorene**	**39100**		ug/kg dry	7340	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**46700**		ug/kg dry	6970	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
91-20-3	**Naphthalene**	**59300**		ug/kg dry	3760	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
85-01-8	**Phenanthrene**	**189000**		ug/kg dry	7980	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR
129-00-0	**Pyrene**	**150000**		ug/kg dry	6240	15300	50	EPA SW-846 8270C	06/27/2013 22:58	07/01/2013 14:20	SR

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
72-55-9	**4,4'-DDE**	**11.1**		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
50-29-3	**4,4'-DDT**	**37.0**		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
309-00-2	Aldrin	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	20.8	20.8	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:45	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	20.8	20.8	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:45	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	20.8	20.8	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:45	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	20.8	20.8	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:45	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	20.8	20.8	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:45	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	20.8	20.8	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:45	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	20.8	20.8	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:45	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
57-74-9	Chlordane, total	ND		ug/kg dry	8.07	8.07	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW

Sample Information

Client Sample ID: **SB-2 (0-2')** **York Sample ID:** **13F0911-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
72-20-8	Endrin	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.02	2.02	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
72-43-5	Methoxychlor	ND		ug/kg dry	10.1	10.1	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW
1336-36-3	Total PCBs	ND		ug/kg dry	8.32	20.8	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 07:45	JW
8001-35-2	Toxaphene	ND		ug/kg dry	102	102	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 19:05	JW

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5440**		mg/kg dry	1.25	2.45	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-36-0	**Antimony**	**11.9**		mg/kg dry	0.269	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-38-2	**Arsenic**	**18.1**		mg/kg dry	0.416	1.22	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-39-3	**Barium**	**205**		mg/kg dry	0.159	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.122	0.122	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-43-9	**Cadmium**	**6.18**		mg/kg dry	0.122	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-70-2	**Calcium**	**14500**		mg/kg dry	0.049	6.11	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-47-3	**Chromium**	**17.1**		mg/kg dry	0.147	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-48-4	**Cobalt**	**6.21**		mg/kg dry	0.098	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-50-8	**Copper**	**2880**		mg/kg dry	0.147	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7439-89-6	**Iron**	**23400**		mg/kg dry	0.795	2.45	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7439-92-1	**Lead**	**1530**		mg/kg dry	0.208	0.367	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7439-95-4	**Magnesium**	**1550**		mg/kg dry	0.550	6.11	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7439-96-5	**Manganese**	**276**		mg/kg dry	0.135	1.22	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-02-0	**Nickel**	**27.5**		mg/kg dry	0.159	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-09-7	**Potassium**	**649**		mg/kg dry	4.13	12.2	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW

Sample Information

Client Sample ID: **SB-2 (0-2')** **York Sample ID:** **13F0911-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	**Selenium**	**2.95**		mg/kg dry	0.611	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-22-4	Silver	ND		mg/kg dry	0.122	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-23-5	**Sodium**	**271**		mg/kg dry	6.44	12.2	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-28-0	Thallium	ND		mg/kg dry	0.391	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-62-2	**Vanadium**	**19.0**		mg/kg dry	0.135	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW
7440-66-6	**Zinc**	**4890**		mg/kg dry	0.110	0.611	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:17	MW

Mercury by 7470/7471

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0404	0.0404	1	EPA SW846-7471	07/02/2013 19:15	07/03/2013 01:44	AA

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**81.8**		%	0.100	0.100	1	SM 2540G	06/30/2013 11:19	06/30/2013 13:43	SC

Sample Information

Client Sample ID: **SB-2 (10-12')** **York Sample ID:** **13F0911-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS

Sample Information

Client Sample ID: **SB-2 (10-12')** **York Sample ID:** **13F0911-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	120	240	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
78-93-3	2-Butanone	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
67-64-1	**Acetone**	**57**	B	ug/kg dry	6.0	24	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
71-43-2	Benzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
108-86-1	Bromobenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
75-25-2	Bromoform	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
74-83-9	Bromomethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
75-00-3	Chloroethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
67-66-3	Chloroform	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
74-87-3	Chloromethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
74-95-3	Dibromomethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS

Sample Information

Client Sample ID: **SB-2 (10-12')** **York Sample ID:** **13F0911-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
75-09-2	Methylene chloride	ND		ug/kg dry	6.0	24	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
91-20-3	Naphthalene	ND		ug/kg dry	6.0	24	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
95-47-6	o-Xylene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	12	24	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
100-42-5	Styrene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
108-88-3	Toluene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	6.0	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	18	36	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 12:39	SS

Sample Information

Client Sample ID: **SB-2 (10-12')** **York Sample ID:** **13F0911-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Semi-Volatiles, PAH Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	231	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
83-32-9	Acenaphthene	ND		ug/kg dry	109	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	145	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
120-12-7	Anthracene	ND		ug/kg dry	165	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	113	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	119	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	252	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	100	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	301	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
218-01-9	Chrysene	ND		ug/kg dry	139	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	121	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
206-44-0	Fluoranthene	ND		ug/kg dry	177	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
86-73-7	Fluorene	ND		ug/kg dry	145	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	137	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
91-20-3	Naphthalene	ND		ug/kg dry	74.1	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
85-01-8	Phenanthrene	ND		ug/kg dry	157	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR
129-00-0	Pyrene	ND		ug/kg dry	123	301	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:10	SR

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
309-00-2	Aldrin	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	20.5	20.5	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:05	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	20.5	20.5	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:05	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	20.5	20.5	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:05	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	20.5	20.5	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:05	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	20.5	20.5	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:05	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	20.5	20.5	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:05	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	20.5	20.5	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:05	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW

Sample Information

Client Sample ID: **SB-2 (10-12')** **York Sample ID:** **13F0911-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/kg dry	7.95	7.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
72-20-8	Endrin	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.99	1.99	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.94	9.94	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW
1336-36-3	Total PCBs	ND		ug/kg dry	8.19	20.5	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:05	JW
8001-35-2	Toxaphene	ND		ug/kg dry	101	101	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 17:49	JW

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6070**		mg/kg dry	1.23	2.41	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-36-0	Antimony	ND		mg/kg dry	0.265	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-38-2	**Arsenic**	**1.22**		mg/kg dry	0.410	1.21	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-39-3	**Barium**	**28.6**		mg/kg dry	0.157	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.121	0.121	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.121	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-70-2	**Calcium**	**1450**		mg/kg dry	0.048	6.03	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-47-3	**Chromium**	**12.0**		mg/kg dry	0.145	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-48-4	**Cobalt**	**6.68**		mg/kg dry	0.096	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-50-8	**Copper**	**11.7**		mg/kg dry	0.145	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7439-89-6	**Iron**	**18300**		mg/kg dry	0.783	2.41	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7439-92-1	**Lead**	**4.66**		mg/kg dry	0.205	0.362	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7439-95-4	**Magnesium**	**1470**		mg/kg dry	0.542	6.03	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7439-96-5	**Manganese**	**295**		mg/kg dry	0.133	1.21	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-02-0	**Nickel**	**13.1**		mg/kg dry	0.157	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW

Sample Information

Client Sample ID: SB-2 (10-12') **York Sample ID:** 13F0911-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 9:45 am	06/26/2013

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**669**		mg/kg dry	4.07	12.1	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7782-49-2	**Selenium**	**2.35**		mg/kg dry	0.603	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-22-4	Silver	ND		mg/kg dry	0.121	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-23-5	**Sodium**	**139**		mg/kg dry	6.35	12.1	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-28-0	Thallium	ND		mg/kg dry	0.386	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-62-2	**Vanadium**	**21.1**		mg/kg dry	0.133	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW
7440-66-6	**Zinc**	**24.6**		mg/kg dry	0.108	0.603	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:25	MW

Mercury by 7470/7471

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0398	0.0398	1	EPA SW846-7471	07/02/2013 19:15	07/03/2013 01:44	AA

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**83.0**		%	0.100	0.100	1	SM 2540G	06/30/2013 11:19	06/30/2013 13:43	SC

Sample Information

Client Sample ID: SB-3 (6-8') **York Sample ID:** 13F0911-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 12:00 pm	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS

Sample Information

Client Sample ID: **SB-3 (6-8')** **York Sample ID:** **13F0911-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 12:00 pm	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	140	270	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
78-93-3	2-Butanone	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
67-64-1	**Acetone**	**37**	B	ug/kg dry	6.8	27	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
71-43-2	Benzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
108-86-1	Bromobenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
75-25-2	Bromoform	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
74-83-9	Bromomethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
75-00-3	Chloroethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
67-66-3	Chloroform	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
74-87-3	Chloromethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS

Sample Information

Client Sample ID: **SB-3 (6-8')** **York Sample ID:** **13F0911-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 12:00 pm	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
75-09-2	Methylene chloride	ND		ug/kg dry	6.8	27	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
91-20-3	Naphthalene	ND		ug/kg dry	6.8	27	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
95-47-6	o-Xylene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	14	27	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
100-42-5	Styrene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
108-88-3	Toluene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	6.8	14	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	20	41	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:14	SS

Sample Information

Client Sample ID: **SB-3 (6-8')** **York Sample ID:** **13F0911-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 12:00 pm	06/26/2013

Semi-Volatiles, PAH Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	260	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
83-32-9	Acenaphthene	ND		ug/kg dry	123	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	163	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
120-12-7	Anthracene	ND		ug/kg dry	185	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	127	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	134	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	284	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	112	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	339	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
218-01-9	Chrysene	ND		ug/kg dry	156	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	136	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
206-44-0	Fluoranthene	ND		ug/kg dry	198	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
86-73-7	Fluorene	ND		ug/kg dry	163	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	154	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
91-20-3	Naphthalene	ND		ug/kg dry	83.3	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
85-01-8	Phenanthrene	ND		ug/kg dry	177	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR
129-00-0	Pyrene	ND		ug/kg dry	138	339	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 04:39	SR

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
72-55-9	**4,4'-DDE**	**6.20**		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
50-29-3	**4,4'-DDT**	**11.3**		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
309-00-2	Aldrin	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	23.0	23.0	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:24	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	23.0	23.0	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:24	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	23.0	23.0	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:24	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	23.0	23.0	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:24	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	23.0	23.0	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:24	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	23.0	23.0	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:24	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	23.0	23.0	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:24	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW

Sample Information

Client Sample ID: **SB-3 (6-8')** **York Sample ID:** **13F0911-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 12:00 pm	06/26/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/kg dry	8.94	8.94	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
72-20-8	Endrin	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.24	2.24	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
72-43-5	Methoxychlor	ND		ug/kg dry	11.2	11.2	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW
1336-36-3	Total PCBs	ND		ug/kg dry	9.21	23.0	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:24	JW
8001-35-2	Toxaphene	ND		ug/kg dry	113	113	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:05	JW

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**4890**		mg/kg dry	1.38	2.71	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-36-0	Antimony	ND		mg/kg dry	0.298	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-38-2	**Arsenic**	**5.95**		mg/kg dry	0.461	1.35	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-39-3	**Barium**	**94.1**		mg/kg dry	0.176	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.135	0.135	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.135	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-70-2	**Calcium**	**5930**		mg/kg dry	0.054	6.77	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-47-3	**Chromium**	**9.51**		mg/kg dry	0.163	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-48-4	**Cobalt**	**6.63**		mg/kg dry	0.108	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-50-8	**Copper**	**38.2**		mg/kg dry	0.163	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7439-89-6	**Iron**	**16900**		mg/kg dry	0.880	2.71	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7439-92-1	**Lead**	**107**		mg/kg dry	0.230	0.406	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7439-95-4	**Magnesium**	**851**		mg/kg dry	0.610	6.77	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7439-96-5	**Manganese**	**171**		mg/kg dry	0.149	1.35	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-02-0	**Nickel**	**16.9**		mg/kg dry	0.176	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW

Sample Information

Client Sample ID: **SB-3 (6-8')** **York Sample ID:** **13F0911-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 12:00 pm	06/26/2013

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**616**		mg/kg dry	4.58	13.5	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7782-49-2	**Selenium**	**2.67**		mg/kg dry	0.677	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-22-4	Silver	ND		mg/kg dry	0.135	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-23-5	**Sodium**	**280**		mg/kg dry	7.14	13.5	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-28-0	Thallium	ND		mg/kg dry	0.433	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-62-2	**Vanadium**	**21.1**		mg/kg dry	0.149	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW
7440-66-6	**Zinc**	**91.9**		mg/kg dry	0.122	0.677	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:30	MW

Mercury by 7470/7471

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0447	0.0447	1	EPA SW846-7471	07/02/2013 19:15	07/03/2013 01:44	AA

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**73.8**		%	0.100	0.100	1	SM 2540G	06/30/2013 11:19	06/30/2013 13:43	SC

Sample Information

Client Sample ID: **GW-1 (7-12')** **York Sample ID:** **13F0911-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS

Sample Information

Client Sample ID: GW-1 (7-12')

York Sample ID: 13F0911-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
67-64-1	**Acetone**	**3.7**	J	ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS

Sample Information

Client Sample ID: GW-1 (7-12') **York Sample ID:** 13F0911-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 13:44	SS

Sample Information

Client Sample ID: GW-2 (7-12') **York Sample ID:** 13F0911-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: GW-2 (7-12')

York Sample ID: 13F0911-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
67-64-1	Acetone	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS

Sample Information

Client Sample ID: GW-2 (7-12')

York Sample ID: 13F0911-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 9:45 am	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:19	SS

Sample Information

Client Sample ID: **GW-2 (7-12')** **York Sample ID:** **13F0911-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 9:45 am	06/26/2013

Sample Information

Client Sample ID: **GW-3 (7-12')** **York Sample ID:** **13F0911-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 12:00 pm	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
67-64-1	**Acetone**	**3.3**	J	ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS

Sample Information

Client Sample ID: GW-3 (7-12')

York Sample ID: 13F0911-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 12:00 pm	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS

Sample Information

Client Sample ID: GW-3 (7-12') **York Sample ID:** 13F0911-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 12:00 pm	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 14:54	SS

Sample Information

Client Sample ID: DUP-GW **York Sample ID:** 13F0911-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 12:00 pm	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS

Sample Information

Client Sample ID: **DUP-GW** **York Sample ID:** **13F0911-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 12:00 pm	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
67-64-1	**Acetone**	**4.5**	J	ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS

Sample Information

Client Sample ID: **DUP-GW** **York Sample ID:** **13F0911-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 12:00 pm	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 15:29	SS

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **13F0911-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 11:00 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **13F0911-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 11:00 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
67-64-1	**Acetone**	**3.6**	J	ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **13F0911-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 11:00 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:05	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **13F0911-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 6:00 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **13F0911-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 6:00 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
67-64-1	**Acetone**	**3.9**	J	ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **13F0911-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Water	June 25, 2013 6:00 am	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
91-20-3	Naphthalene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA SW846-8260B	07/02/2013 19:15	07/03/2013 16:40	SS

Sample Information

Client Sample ID: **DUP-SB** **York Sample ID:** **13F0911-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 3:00 pm	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	120	240	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
78-93-3	**2-Butanone**	**20**		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
67-64-1	**Acetone**	**88**	B	ug/kg dry	5.9	24	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
71-43-2	Benzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
108-86-1	Bromobenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
75-25-2	Bromoform	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS

Sample Information

Client Sample ID: **DUP-SB** **York Sample ID:** **13F0911-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 3:00 pm	06/26/2013

Volatile Organics, 8260 List **Log-in Notes:** **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
75-00-3	Chloroethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
67-66-3	Chloroform	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
74-87-3	Chloromethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
74-95-3	Dibromomethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.9	24	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
91-20-3	Naphthalene	ND		ug/kg dry	5.9	24	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
95-47-6	o-Xylene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	12	24	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
100-42-5	Styrene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
108-88-3	Toluene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.9	12	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS

Sample Information

Client Sample ID: **DUP-SB** **York Sample ID:** **13F0911-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 3:00 pm	06/26/2013

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/kg dry	18	35	1	EPA SW846-8260B	07/03/2013 01:35	07/04/2013 13:49	SS

Semi-Volatiles, PAH Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	227	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
83-32-9	**Acenaphthene**	**268**	J	ug/kg dry	107	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	142	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
120-12-7	**Anthracene**	**569**		ug/kg dry	162	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
56-55-3	**Benzo(a)anthracene**	**774**		ug/kg dry	111	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
50-32-8	**Benzo(a)pyrene**	**730**		ug/kg dry	117	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
205-99-2	**Benzo(b)fluoranthene**	**457**		ug/kg dry	248	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
191-24-2	**Benzo(g,h,i)perylene**	**102**	J	ug/kg dry	98.2	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
207-08-9	**Benzo(k)fluoranthene**	**530**		ug/kg dry	296	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
218-01-9	**Chrysene**	**745**		ug/kg dry	136	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
53-70-3	**Dibenzo(a,h)anthracene**	**142**	J	ug/kg dry	119	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
206-44-0	**Fluoranthene**	**1700**		ug/kg dry	173	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
86-73-7	**Fluorene**	**304**		ug/kg dry	142	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**296**	J	ug/kg dry	135	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
91-20-3	**Naphthalene**	**94.1**	J	ug/kg dry	72.8	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
85-01-8	**Phenanthrene**	**1830**		ug/kg dry	154	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR
129-00-0	**Pyrene**	**1600**		ug/kg dry	121	296	1	EPA SW-846 8270C	06/27/2013 22:58	06/29/2013 11:16	SR

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
309-00-2	Aldrin	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:44	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:44	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:44	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:44	JW

Sample Information

Client Sample ID: **DUP-SB** **York Sample ID:** **13F0911-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 3:00 pm	06/26/2013

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:44	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:44	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:44	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
57-74-9	Chlordane, total	ND		ug/kg dry	7.81	7.81	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
72-20-8	Endrin	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.76	9.76	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW
1336-36-3	Total PCBs	ND		ug/kg dry	8.05	20.1	1	EPA SW 846-8081/8082	06/30/2013 16:32	07/01/2013 08:44	JW
8001-35-2	Toxaphene	ND		ug/kg dry	98.8	98.8	5	EPA SW 846-8081/8082	06/30/2013 16:32	07/02/2013 18:20	JW

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7840**		mg/kg dry	1.21	2.37	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-36-0	Antimony	ND		mg/kg dry	0.260	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-38-2	**Arsenic**	**1.87**		mg/kg dry	0.402	1.18	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-39-3	**Barium**	**27.5**		mg/kg dry	0.154	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.118	0.118	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.118	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-70-2	**Calcium**	**872**		mg/kg dry	0.047	5.92	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-47-3	**Chromium**	**15.3**		mg/kg dry	0.142	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-48-4	**Cobalt**	**5.10**		mg/kg dry	0.095	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-50-8	**Copper**	**12.4**		mg/kg dry	0.142	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7439-89-6	**Iron**	**16700**		mg/kg dry	0.769	2.37	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW

Sample Information

Client Sample ID: **DUP-SB** **York Sample ID:** **13F0911-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0911	415 Manhattan Ave Brooklyn, NY	Soil	June 25, 2013 3:00 pm	06/26/2013

Metals, Target Analyte

Log-in Notes: **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**6.72**		mg/kg dry	0.201	0.355	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7439-95-4	**Magnesium**	**1770**		mg/kg dry	0.532	5.92	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7439-96-5	**Manganese**	**118**		mg/kg dry	0.130	1.18	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-02-0	**Nickel**	**13.2**		mg/kg dry	0.154	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-09-7	**Potassium**	**824**		mg/kg dry	4.00	11.8	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7782-49-2	**Selenium**	**1.53**		mg/kg dry	0.592	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-22-4	Silver	ND		mg/kg dry	0.118	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-23-5	**Sodium**	**134**		mg/kg dry	6.24	11.8	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-28-0	Thallium	ND		mg/kg dry	0.379	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-62-2	**Vanadium**	**24.9**		mg/kg dry	0.130	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW
7440-66-6	**Zinc**	**105**		mg/kg dry	0.106	0.592	1	EPA SW846-6010B	06/29/2013 15:24	06/29/2013 21:35	MW

Mercury by 7470/7471

Log-in Notes: **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0390	0.0390	1	EPA SW846-7471	07/02/2013 19:15	07/03/2013 01:44	AA

Total Solids

Log-in Notes: **VOA-CONT** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**84.5**		%	0.100	0.100	1	SM 2540G	06/30/2013 13:50	06/30/2013 15:41	SC

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13F0911-01	SB-1 (0-2')	2 oz. WM Clear Glass Cool to 4° C
13F0911-02	SB-1 (10-12')	2 oz. WM Clear Glass Cool to 4° C
13F0911-03	SB-2 (0-2')	2 oz. WM Clear Glass Cool to 4° C
13F0911-04	SB-2 (10-12')	8 oz. WM Clear Glass Cool to 4° C
13F0911-05	SB-3 (6-8')	2 oz. WM Clear Glass Cool to 4° C
13F0911-06	GW-1 (7-12')	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13F0911-07	GW-2 (7-12')	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13F0911-08	GW-3 (7-12')	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13F0911-09	DUP-GW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13F0911-10	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13F0911-11	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13F0911-12	DUP-SB	2 oz. WM Clear Glass Cool to 4° C

Notes and Definitions

VOA-CONTNON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A or NYSDOH ELAP. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A.

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

M-LSRD Original sample conc <50 X reporting limit.

J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.

B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

Technical Report

prepared for:

Laurel Environmental
53 West Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Report Date: 07/11/2013
Client Project ID: 415 Manhattan Ave, Brooklyn, NY
York Project (SDG) No.: 13G0148

CT Cert. No. PH-0723 New Jersey Cert. No. CT-005 New York Cert. No. 10854 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 07/11/2013
Client Project ID: 415 Manhattan Ave, Brooklyn, NY
York Project (SDG) No.: 13G0148

Laurel Environmental
53 West Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 03, 2013 and listed below. The project was identified as your project: **415 Manhattan Ave, Brooklyn, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13G0148-01	GW-1	Water	07/02/2013	07/03/2013
13G0148-02	GW-2	Water	07/02/2013	07/03/2013
13G0148-03	GW-3	Water	07/02/2013	07/03/2013

General Notes for York Project (SDG) No.: 13G0148

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects result[illegible]ples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 07/11/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: GW-1 **York Sample ID:** 13G0148-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 9:00 am	07/03/2013

Semi-Volatiles, EPA TCL List **Log-in Notes:** **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.53	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.55	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.68	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.27	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	1.96	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	1.79	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	1.94	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.64	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.31	10.3	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.65	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.65	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.26	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
95-57-8	2-Chlorophenol	ND		ug/L	1.84	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.83	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
95-48-7	2-Methylphenol	ND		ug/L	1.19	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
88-74-4	2-Nitroaniline	ND		ug/L	1.72	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.42	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.15	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.30	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
99-09-2	3-Nitroaniline	ND		ug/L	1.72	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.66	10.3	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.36	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	1.94	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.06	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.51	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.75	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
100-02-7	4-Nitrophenol	ND		ug/L	1.70	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
83-32-9	Acenaphthene	ND		ug/L	1.82	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
208-96-8	Acenaphthylene	ND		ug/L	1.78	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
120-12-7	Anthracene	ND		ug/L	1.22	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	1.34	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	1.33	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR

Sample Information

Client Sample ID: GW-1 **York Sample ID:** 13G0148-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 9:00 am	07/03/2013

Semi-Volatiles, EPA TCL List **Log-in Notes:** **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/L	1.45	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	1.75	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	1.88	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
65-85-0	Benzoic acid	ND		ug/L	8.92	10.3	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.49	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	0.874	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	1.82	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.54	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.07	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	4.90	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
218-01-9	Chrysene	ND		ug/L	1.51	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	1.60	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
132-64-9	Dibenzofuran	ND		ug/L	2.47	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.63	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
131-11-3	Dimethyl phthalate	ND		ug/L	1.96	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.10	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.15	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
206-44-0	Fluoranthene	ND		ug/L	1.27	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
86-73-7	Fluorene	ND		ug/L	1.88	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.30	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	2.86	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.59	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
67-72-1	Hexachloroethane	ND		ug/L	3.12	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	1.74	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
78-59-1	Isophorone	ND		ug/L	2.75	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
91-20-3	Naphthalene	ND		ug/L	2.04	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
98-95-3	Nitrobenzene	ND		ug/L	1.73	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.63	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.13	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.49	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
85-01-8	Phenanthrene	ND		ug/L	1.41	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
108-95-2	Phenol	ND		ug/L	1.13	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR
129-00-0	Pyrene	ND		ug/L	1.77	5.13	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 12:54	SR

Sample Information

Client Sample ID: **GW-1** **York Sample ID:** **13G0148-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 9:00 am	07/03/2013

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-36-0	Antimony	ND		mg/L	0.003	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-39-3	**Barium**	**0.121**		mg/L	0.002	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-43-9	Cadmium	ND		mg/L	0.002	0.003	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-70-2	**Calcium**	**108**		mg/L	0.019	0.050	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-47-3	Chromium	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-48-4	Cobalt	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-50-8	Copper	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7439-89-6	**Iron**	**0.059**		mg/L	0.010	0.020	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7439-92-1	Lead	ND		mg/L	0.002	0.003	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7439-95-4	**Magnesium**	**9.34**		mg/L	0.010	0.050	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7439-96-5	**Manganese**	**0.381**		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-02-0	Nickel	ND		mg/L	0.001	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-09-7	**Potassium**	**19.2**		mg/L	0.026	0.050	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7782-49-2	**Selenium**	**0.010**		mg/L	0.007	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-22-4	Silver	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-23-5	**Sodium**	**12.6**		mg/L	0.061	0.100	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-28-0	Thallium	ND		mg/L	0.003	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-62-2	Vanadium	ND		mg/L	0.002	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW
7440-66-6	Zinc	ND		mg/L	0.002	0.020	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 19:56	MW

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.294**		mg/L	0.010	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-36-0	Antimony	ND		mg/L	0.003	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-38-2	**Arsenic**	**0.004**		mg/L	0.004	0.004	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-39-3	**Barium**	**0.140**		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-43-9	Cadmium	ND		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-70-2	**Calcium**	**106**		mg/L	0.019	0.050	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-47-3	Chromium	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW

Sample Information

Client Sample ID: GW-1 **York Sample ID:** 13G0148-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 9:00 am	07/03/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	Cobalt	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-50-8	Copper	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7439-89-6	**Iron**	**10.2**		mg/L	0.010	0.020	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7439-92-1	**Lead**	**0.022**		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7439-95-4	**Magnesium**	**11.6**		mg/L	0.010	0.050	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7439-96-5	**Manganese**	**0.318**		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-02-0	Nickel	ND		mg/L	0.001	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-09-7	**Potassium**	**23.6**		mg/L	0.026	0.050	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7782-49-2	Selenium	ND		mg/L	0.007	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-22-4	Silver	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-23-5	**Sodium**	**14.9**		mg/L	0.061	0.100	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-28-0	Thallium	ND		mg/L	0.003	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-62-2	Vanadium	ND		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW
7440-66-6	**Zinc**	**0.025**		mg/L	0.002	0.020	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:37	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	0.0002	1	EPA SW846-7470	07/04/2013 01:36	07/05/2013 11:59	AA

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0000390	0.0002000	1	EPA SW846-7470	07/08/2013 15:00	07/08/2013 16:35	AA

Sample Information

Client Sample ID: GW-2 **York Sample ID:** 13G0148-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 10:30 am	07/03/2013

Semi-Volatiles, EPA TCL List

Log-in Notes: **Sample Notes:** **EXT-EM**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.60	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.62	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR

Sample Information

Client Sample ID: GW-2 **York Sample ID:** 13G0148-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 10:30 am	07/03/2013

Semi-Volatiles, EPA TCL List **Log-in Notes:** **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.75	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.33	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.01	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	1.84	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	1.99	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.68	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.37	10.5	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.69	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.69	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.32	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
95-57-8	2-Chlorophenol	ND		ug/L	1.88	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	2.91	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
95-48-7	2-Methylphenol	ND		ug/L	1.22	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
88-74-4	2-Nitroaniline	ND		ug/L	1.77	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.48	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.18	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.34	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
99-09-2	3-Nitroaniline	ND		ug/L	1.77	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.71	10.5	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.40	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	1.99	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.14	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.58	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
100-01-6	4-Nitroaniline	ND		ug/L	2.82	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
100-02-7	4-Nitrophenol	ND		ug/L	1.75	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
83-32-9	Acenaphthene	ND		ug/L	1.86	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
208-96-8	Acenaphthylene	ND		ug/L	1.83	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
120-12-7	Anthracene	ND		ug/L	1.25	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	1.38	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	1.37	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	1.48	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	1.80	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	1.93	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR

Sample Information

Client Sample ID: GW-2 **York Sample ID:** 13G0148-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 10:30 am	07/03/2013

Semi-Volatiles, EPA TCL List **Log-in Notes:** **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65-85-0	Benzoic acid	ND		ug/L	9.16	10.5	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.53	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	0.897	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	1.86	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.58	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.15	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	5.03	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
218-01-9	Chrysene	ND		ug/L	1.55	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	1.64	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
132-64-9	Dibenzofuran	ND		ug/L	2.54	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.69	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.01	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.16	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.18	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
206-44-0	Fluoranthene	ND		ug/L	1.31	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
86-73-7	Fluorene	ND		ug/L	1.93	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.34	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	2.94	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.66	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
67-72-1	Hexachloroethane	ND		ug/L	3.20	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	1.79	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
78-59-1	Isophorone	ND		ug/L	2.82	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
91-20-3	Naphthalene	ND		ug/L	2.09	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
98-95-3	Nitrobenzene	ND		ug/L	1.78	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.69	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.53	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
85-01-8	Phenanthrene	ND		ug/L	1.44	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
108-95-2	Phenol	ND		ug/L	1.16	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR
129-00-0	Pyrene	ND		ug/L	1.82	5.26	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:26	SR

Sample Information

Client Sample ID: **GW-2** **York Sample ID:** **13G0148-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 10:30 am	07/03/2013

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-36-0	Antimony	ND		mg/L	0.003	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-39-3	**Barium**	**0.142**		mg/L	0.002	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-43-9	Cadmium	ND		mg/L	0.002	0.003	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-70-2	**Calcium**	**111**		mg/L	0.019	0.050	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-47-3	Chromium	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-48-4	Cobalt	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-50-8	Copper	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7439-89-6	Iron	ND		mg/L	0.010	0.020	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7439-92-1	**Lead**	**0.006**		mg/L	0.002	0.003	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7439-95-4	**Magnesium**	**8.17**		mg/L	0.010	0.050	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7439-96-5	**Manganese**	**0.453**		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-02-0	Nickel	ND		mg/L	0.001	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-09-7	**Potassium**	**20.0**		mg/L	0.026	0.050	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7782-49-2	Selenium	ND		mg/L	0.007	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-22-4	Silver	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-23-5	**Sodium**	**16.2**		mg/L	0.061	0.100	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-28-0	Thallium	ND		mg/L	0.003	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-62-2	Vanadium	ND		mg/L	0.002	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW
7440-66-6	**Zinc**	**0.158**		mg/L	0.002	0.020	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:00	MW

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**1.02**		mg/L	0.010	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-36-0	Antimony	ND		mg/L	0.003	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-38-2	**Arsenic**	**0.014**		mg/L	0.004	0.004	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-39-3	**Barium**	**0.228**		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-43-9	Cadmium	ND		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-70-2	**Calcium**	**109**		mg/L	0.019	0.050	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-47-3	Chromium	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW

Sample Information

Client Sample ID: GW-2 **York Sample ID:** 13G0148-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 10:30 am	07/03/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	Cobalt	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-50-8	**Copper**	**0.065**		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7439-89-6	**Iron**	**0.762**		mg/L	0.010	0.020	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7439-92-1	**Lead**	**0.144**		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7439-95-4	**Magnesium**	**7.66**		mg/L	0.010	0.050	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7439-96-5	**Manganese**	**0.380**		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-02-0	Nickel	ND		mg/L	0.001	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-09-7	**Potassium**	**20.3**		mg/L	0.026	0.050	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7782-49-2	Selenium	ND		mg/L	0.007	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-22-4	Silver	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-23-5	**Sodium**	**16.2**		mg/L	0.061	0.100	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-28-0	Thallium	ND		mg/L	0.003	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-62-2	**Vanadium**	**0.012**		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW
7440-66-6	**Zinc**	**0.308**		mg/L	0.002	0.020	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:42	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0005**		mg/L	0.0002	0.0002	1	EPA SW846-7470	07/04/2013 01:36	07/05/2013 11:59	AA

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0000390	0.0002000	1	EPA SW846-7470	07/08/2013 15:00	07/08/2013 16:35	AA

Sample Information

Client Sample ID: GW-3 **York Sample ID:** 13G0148-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 1:00 pm	07/03/2013

Semi-Volatiles, EPA TCL List

Log-in Notes: **Sample Notes:** **EXT-D**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.99	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.02	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR

Sample Information

Client Sample ID: GW-3 **York Sample ID:** 13G0148-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 1:00 pm	07/03/2013

Semi-Volatiles, EPA TCL List **Log-in Notes:** **Sample Notes:** EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.16	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.68	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.32	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.12	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.29	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	1.94	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.73	12.1	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	1.95	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	1.95	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	2.67	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
95-57-8	2-Chlorophenol	ND		ug/L	2.17	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	3.35	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
95-48-7	2-Methylphenol	ND		ug/L	1.41	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
88-74-4	2-Nitroaniline	ND		ug/L	2.04	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
88-75-5	2-Nitrophenol	ND		ug/L	2.86	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	1.36	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	1.54	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
99-09-2	3-Nitroaniline	ND		ug/L	2.04	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	1.96	12.1	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	1.61	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.29	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.61	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.97	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
100-01-6	4-Nitroaniline	ND		ug/L	3.25	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
100-02-7	4-Nitrophenol	ND		ug/L	2.01	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
83-32-9	Acenaphthene	ND		ug/L	2.15	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
208-96-8	Acenaphthylene	ND		ug/L	2.11	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
120-12-7	Anthracene	ND		ug/L	1.44	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	1.59	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	1.58	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	1.71	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	2.07	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	2.22	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR

Sample Information

Client Sample ID: GW-3 **York Sample ID:** 13G0148-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 1:00 pm	07/03/2013

Semi-Volatiles, EPA TCL List **Log-in Notes:** **Sample Notes:** EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65-85-0	Benzoic acid	ND		ug/L	10.5	12.1	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
100-51-6	Benzyl alcohol	ND		ug/L	1.76	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	1.03	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.15	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.82	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.62	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	5.79	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
218-01-9	Chrysene	ND		ug/L	1.78	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	1.89	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
132-64-9	Dibenzofuran	ND		ug/L	2.92	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
84-66-2	Diethyl phthalate	ND		ug/L	3.10	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
131-11-3	Dimethyl phthalate	ND		ug/L	2.32	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.48	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	1.36	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
206-44-0	Fluoranthene	ND		ug/L	1.50	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
86-73-7	Fluorene	ND		ug/L	2.22	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
118-74-1	Hexachlorobenzene	ND		ug/L	1.54	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	3.38	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.07	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
67-72-1	Hexachloroethane	ND		ug/L	3.68	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	2.06	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
78-59-1	Isophorone	ND		ug/L	3.25	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
91-20-3	Naphthalene	ND		ug/L	2.41	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
98-95-3	Nitrobenzene	ND		ug/L	2.05	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.10	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	6.06	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
87-86-5	Pentachlorophenol	ND		ug/L	1.76	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
85-01-8	Phenanthrene	ND		ug/L	1.66	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
108-95-2	Phenol	ND		ug/L	1.33	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR
129-00-0	Pyrene	ND		ug/L	2.10	6.06	1	EPA SW846-8270C/EPA 625	07/09/2013 09:09	07/10/2013 13:58	SR

Sample Information

Client Sample ID: **GW-3** **York Sample ID:** **13G0148-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 1:00 pm	07/03/2013

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-36-0	Antimony	ND		mg/L	0.003	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-39-3	**Barium**	**0.117**		mg/L	0.002	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-43-9	Cadmium	ND		mg/L	0.002	0.003	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-70-2	**Calcium**	**128**		mg/L	0.019	0.050	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-47-3	Chromium	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-48-4	Cobalt	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-50-8	Copper	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7439-89-6	**Iron**	**0.032**		mg/L	0.010	0.020	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7439-92-1	Lead	ND		mg/L	0.002	0.003	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7439-95-4	**Magnesium**	**16.8**		mg/L	0.010	0.050	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7439-96-5	**Manganese**	**0.539**		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-02-0	Nickel	ND		mg/L	0.001	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-09-7	**Potassium**	**38.1**		mg/L	0.026	0.050	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7782-49-2	**Selenium**	**0.012**		mg/L	0.007	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-22-4	Silver	ND		mg/L	0.002	0.005	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-23-5	**Sodium**	**55.8**		mg/L	0.061	0.100	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-28-0	Thallium	ND		mg/L	0.003	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-62-2	Vanadium	ND		mg/L	0.002	0.010	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW
7440-66-6	Zinc	ND		mg/L	0.002	0.020	1	EPA SW846-6010B	07/05/2013 16:51	07/05/2013 20:18	MW

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.250**		mg/L	0.010	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-36-0	Antimony	ND		mg/L	0.003	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-38-2	**Arsenic**	**0.009**		mg/L	0.004	0.004	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-39-3	**Barium**	**0.136**		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-43-9	Cadmium	ND		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-70-2	**Calcium**	**126**		mg/L	0.019	0.050	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-47-3	Chromium	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW

Sample Information

Client Sample ID: GW-3 **York Sample ID:** 13G0148-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13G0148	415 Manhattan Ave, Brooklyn, NY	Water	July 2, 2013 1:00 pm	07/03/2013

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	Cobalt	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-50-8	Copper	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7439-89-6	**Iron**	**4.73**		mg/L	0.010	0.020	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7439-92-1	**Lead**	**0.021**		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7439-95-4	**Magnesium**	**16.2**		mg/L	0.010	0.050	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7439-96-5	**Manganese**	**0.531**		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-02-0	Nickel	ND		mg/L	0.001	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-09-7	**Potassium**	**36.1**		mg/L	0.026	0.050	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7782-49-2	Selenium	ND		mg/L	0.007	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-22-4	Silver	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-23-5	**Sodium**	**53.0**		mg/L	0.061	0.100	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-28-0	Thallium	ND		mg/L	0.003	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-62-2	Vanadium	ND		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW
7440-66-6	**Zinc**	**0.029**		mg/L	0.002	0.020	1	EPA SW846-6010B/EPA 200.7	07/05/2013 16:56	07/05/2013 21:47	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	0.0002	1	EPA SW846-7470	07/04/2013 01:36	07/05/2013 11:59	AA

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0000390	0.0002000	1	EPA SW846-7470	07/08/2013 15:00	07/08/2013 16:35	AA

Notes and Definitions

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-LSRD	Original sample conc <50 X reporting limit.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
EXT-D	The sample submitted contained sediment. The aqueous portion was decanted off, the volume measured and used for the extraction. The sediment was not included in the extraction.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK ANALYTICAL LABORATORIES INC
YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13G0148

YOUR Information
Company: Laurel Env
Address: 53 W. Hills Rd
Hunt. Station, NY
Phone No. 631 673 0612
Contact Person: Scott
E-Mail Address: labresults@laurelenvi.com

Report To:
Company: Scott
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: Kathy
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
415 Manhattan Ave, Brooklyn, NY

Purchase Order No.
12-409

Samples from: CT___ NY X NJ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☒

Report Type
- Summary Report X
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)
- Simple Excel
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other

York Regulatory Comparison Excel Spreadsheet
Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Steve Bitette
Name (printed)

Matrix Codes
- S - soil
- Other - specify(oil, etc.)
- WW - wastewater
- GW - groundwater
- DW - drinking water
- Air-A - ambient air
- Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
GW-1	07-2-13 / 0900	GW	8270 TCL, EPA Method 6010 & 7471	(1) Metals (2) Amber
GW-2	7-2-13 / 1030	↓	↓ ↓ ↓	↓ ↓
GW-3	7-2-13 / 1300			
			run filtered + unfiltered metals on all, TAL List	

Comments
2 run TAL metals filtered + unfiltered

Preservation
Check those Applicable
4°C___ Frozen___ HCl___ MeOH___ HNO_3___ H_2SO_4___ NaOH___
ZnAc___ Ascorbic Acid___ Other___

Special Instructions
Field Filtered ☐
Lab to Filter ☒

Samples Relinquished By	Date/Time 7-2-13 / 1600	Samples Received By K Barker	Date/Time 7-3-13 12pm
Samples Relinquished By	Date/Time	Samples Received in LAB by S. Schreck	Date/Time 7/3/13 1630

Temperature on Receipt 3.3 °C

YORK ANALYTICAL LABORATORIES INC
YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13F0911

YOUR Information

Company: Laurel Environmental
Address: 53 W. Hills Rd. Huntington Station
Phone No. 631 673 0612
Contact Person: Scott
E-Mail Address: labregults@laurelenv.com

Report To:

Company: Scott
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: Haley
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

415 Manhattan Ave
Brooklyn, NY

Purchase Order No.

12-405

Samples from: CT___ NY X NJ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☒

Report Type

- Summary Report X
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg ___
- NY ASP A Package ___
- NY ASP B Package ___
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

- Simple Excel ___
- NYSDEC EQuIS ___
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other ___
- **York Regulatory Comparison Excel Spreadsheet** ___

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Tom Johansen
Name (printed)

Matrix Codes	
S -	soil
Other -	specify(oil, etc.)
WW -	wastewater
GW -	groundwater
DW -	drinking water
Air-A -	ambient air
Air-SV -	soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxin/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SB-1 (0-2')	6-25-13 / 0945	S	8260 ; 8270 PAH ; 8081/8082 ; 6010/7471	(1) 8oz ; (1) 2oz
SB-1 (10-12')				
SB-2 (0-2')				
SB-2 (10-12')				
SB-3 (6-8')	/ 1200			
GW-1 (7-12')	/ 0945	GW		(1) Amber ; (2) VOAS
GW-2 (7-12')				
GW-3 (7-12')	/ 1200			
Dup-GW	NA	GW		
Field blank	/ 1100	DW		

Comments

* Please run all GW (1,2,3) Samples for both Filtered & unfiltered Metals

Preservation
Check those Applicable

Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C___ Frozen___ HCl___ MeOH___ HNO_3___ H_2SO_4___ NaOH___
ZnAc___ Ascorbic Acid___ Other___

Samples Relinquished By	Date/Time 6-26-13 0900	Samples Received By R Barker	Date/Time 6/26/13 12pm
Samples Relinquished By	Date/Time	Samples Received in LAB by Grace	Date/Time 6-26-13 1715

Temperature on Receipt 3.0 °C

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13F0911

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company:	Company:	Company:	415 Manhattan Ave Brooklyn, NY	RUSH - Same Day ☐	Summary Report X
Address: Same	Address: Same	Address: Same	**Purchase Order No.** 12-405	RUSH - Next Day ☐	Summary w/ QA Summary
Phone No.	Phone No.	Phone No.		RUSH - Two Day ☐	CT RCP Package
Contact Person:	Attention:	Attention:		RUSH - Three Day ☐	CTRCP DQA/DUE Pkg
E-Mail Address:	E-Mail Address:	E-Mail Address:	Samples from: CT___ NY X NJ___	RUSH - Four Day ☐	NY ASP A Package
				Standard(5-7 Days) X	NY ASP B Package
					NJDEP Red. Deliv.
					Electronic Data Deliverables (EDD)
					Simple Excel
					NYSDEC EQuIS
					EQuIS (std)
					EZ-EDD (EQuIS)
					NJDEP SRP HazSite EDD
					GIS/KEY (std)
					Other
					York Regulatory Comparison Excel Spreadsheet
					Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Tom Johansen
Name (printed)

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
Trip blank	1 / 0600	DW	8260; 8270 PAHs; 8081/8082; 6010/7471	(1) Amber; (2) VOAs
Dup-SB	✓ NA	S	" "	(1) 8oz; (1) 2oz

Comments

Page 50 of 50

Preservation Check those Applicable: 4°C___ Frozen___ HCl___ MeOH___ HNO_3___ H_2SO_4___ NaOH___ ZnAc___ Ascorbic Acid___ Other___

Special Instructions

Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	6-26-13 / 0900	K Baker	6-26-13 12pm
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		Grace	6-26-13 1715

Temperature on Receipt 3.0 °C

APPENDIX F

Soil Vapor Raw Laboratory Data

Technical Report

prepared for:

Laurel Environmental
53 West Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Report Date: 07/03/2013
Client Project ID: 415 Manhattan Ave Brooklyn, NY
York Project (SDG) No.: 13F0885

Report Date: 07/03/2013
Client Project ID: 415 Manhattan Ave Brooklyn, NY
York Project (SDG) No.: 13F0885

Laurel Environmental
53 West Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 26, 2013 and listed below. The project was identified as your project: **415 Manhattan Ave Brooklyn, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0885-01	SV-1	Soil Vapor	06/25/2013	06/26/2013
13F0885-02	SV-2	Soil Vapor	06/25/2013	06/26/2013
13F0885-03	SV-3	Soil Vapor	06/25/2013	06/26/2013

General Notes for York Project (SDG) No.: 13F0885

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects result[illegible]ples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 07/03/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: **SV-1** **York Sample ID:** **13F0885-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0885	415 Manhattan Ave Brooklyn, NY	Soil Vapor	June 25, 2013 3:00 pm	06/26/2013

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-34-3	1,1-Dichloroethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
95-63-6	**1,2,4-Trimethylbenzene**	**4.0**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
106-93-4	1,2-Dibromoethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
107-06-2	1,2-Dichloroethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
78-87-5	1,2-Dichloropropane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
108-67-8	**1,3,5-Trimethylbenzene**	**1.1**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
106-99-0	1,3-Butadiene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
123-91-1	1,4-Dioxane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
78-93-3	**2-Butanone**	**8.0**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
591-78-6	2-Hexanone	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
108-10-1	**4-Methyl-2-pentanone**	**8.2**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
67-64-1	**Acetone**	**35**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
71-43-2	**Benzene**	**1.1**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
100-44-7	Benzyl chloride	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-27-4	Bromodichloromethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-25-2	Bromoform	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
74-83-9	Bromomethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-15-0	Carbon disulfide	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
56-23-5	Carbon tetrachloride	ND		ppbv	0.095	0.095	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
108-90-7	Chlorobenzene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-00-3	Chloroethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
67-66-3	Chloroform	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD

Sample Information

Client Sample ID: **SV-1** **York Sample ID:** **13F0885-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0885	415 Manhattan Ave Brooklyn, NY	Soil Vapor	June 25, 2013 3:00 pm	06/26/2013

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	**Chloromethane**	**0.87**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
110-82-7	**Cyclohexane**	**0.89**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
124-48-1	Dibromochloromethane	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-71-8	**Dichlorodifluoromethane**	**0.55**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
141-78-6	**Ethyl acetate**	**5.2**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
100-41-4	**Ethyl Benzene**	**1.6**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
87-68-3	Hexachlorobutadiene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
67-63-0	**Isopropanol**	**6.1**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
80-62-6	Methyl Methacrylate	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-09-2	**Methylene chloride**	**1.0**	B	ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
142-82-5	**n-Heptane**	**1.2**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
110-54-3	**n-Hexane**	**10**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
95-47-6	**o-Xylene**	**3.1**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
179601-23-1	**p- & m- Xylenes**	**5.8**		ppbv	0.38	0.38	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
622-96-8	**p-Ethyltoluene**	**3.1**		ppbv	0.95	0.95	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
115-07-01	Propylene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
100-42-5	Styrene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
127-18-4	Tetrachloroethylene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
109-99-9	**Tetrahydrofuran**	**1.4**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
108-88-3	**Toluene**	**46**		ppbv	1.9	1.9	18.95	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 08:19	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
79-01-6	Trichloroethylene	ND		ppbv	0.095	0.095	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.40**		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
108-05-4	Vinyl acetate	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD
75-01-4	Vinyl Chloride	ND		ppbv	0.19	0.19	1.895	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 10:45	TD

Sample Information

Client Sample ID: **SV-2** **York Sample ID:** **13F0885-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0885	415 Manhattan Ave Brooklyn, NY	Soil Vapor	June 25, 2013 3:00 pm	06/26/2013

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-34-3	1,1-Dichloroethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
95-63-6	**1,2,4-Trimethylbenzene**	**3.2**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
106-93-4	1,2-Dibromoethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
107-06-2	1,2-Dichloroethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
78-87-5	1,2-Dichloropropane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
108-67-8	**1,3,5-Trimethylbenzene**	**0.89**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
106-99-0	1,3-Butadiene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
123-91-1	1,4-Dioxane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
78-93-3	**2-Butanone**	**8.9**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
591-78-6	**2-Hexanone**	**0.58**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
108-10-1	**4-Methyl-2-pentanone**	**7.5**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
67-64-1	**Acetone**	**32**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
71-43-2	**Benzene**	**1.2**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
100-44-7	Benzyl chloride	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-27-4	Bromodichloromethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-25-2	Bromoform	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
74-83-9	Bromomethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-15-0	Carbon disulfide	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
56-23-5	Carbon tetrachloride	ND		ppbv	0.091	0.091	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
108-90-7	Chlorobenzene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-00-3	Chloroethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
67-66-3	Chloroform	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
74-87-3	**Chloromethane**	**0.93**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD

Sample Information

Client Sample ID: **SV-2** **York Sample ID:** **13F0885-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0885	415 Manhattan Ave Brooklyn, NY	Soil Vapor	June 25, 2013 3:00 pm	06/26/2013

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
110-82-7	**Cyclohexane**	**0.96**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
124-48-1	Dibromochloromethane	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-71-8	**Dichlorodifluoromethane**	**0.51**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
141-78-6	**Ethyl acetate**	**4.8**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
100-41-4	**Ethyl Benzene**	**1.6**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
87-68-3	Hexachlorobutadiene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
67-63-0	**Isopropanol**	**6.7**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
80-62-6	Methyl Methacrylate	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-09-2	**Methylene chloride**	**1.5**	B	ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
142-82-5	**n-Heptane**	**1.3**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
110-54-3	**n-Hexane**	**11**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
95-47-6	**o-Xylene**	**2.7**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
179601-23-1	**p- & m- Xylenes**	**5.4**		ppbv	0.36	0.36	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
622-96-8	**p-Ethyltoluene**	**2.6**		ppbv	0.91	0.91	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
115-07-01	Propylene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
100-42-5	Styrene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
127-18-4	Tetrachloroethylene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
109-99-9	Tetrahydrofuran	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
108-88-3	**Toluene**	**40**		ppbv	1.8	1.8	18.19	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 09:03	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
79-01-6	Trichloroethylene	ND		ppbv	0.091	0.091	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.40**		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
108-05-4	Vinyl acetate	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD
75-01-4	Vinyl Chloride	ND		ppbv	0.18	0.18	1.819	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 11:32	TD

Sample Information

Client Sample ID: **SV-3** **York Sample ID:** **13F0885-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0885	415 Manhattan Ave Brooklyn, NY	Soil Vapor	June 25, 2013 3:00 pm	06/26/2013

Sample Information

Client Sample ID: **SV-3** **York Sample ID:** **13F0885-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0885	415 Manhattan Ave Brooklyn, NY	Soil Vapor	June 25, 2013 3:00 pm	06/26/2013

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	**1,1,1-Trichloroethane**	**0.50**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)**	**1.0**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-34-3	**1,1-Dichloroethane**	**0.61**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-35-4	**1,1-Dichloroethylene**	**0.93**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
95-63-6	**1,2,4-Trimethylbenzene**	**2.6**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
106-93-4	1,2-Dibromoethane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
107-06-2	1,2-Dichloroethane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
78-87-5	1,2-Dichloropropane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
108-67-8	**1,3,5-Trimethylbenzene**	**0.69**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
106-99-0	1,3-Butadiene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
123-91-1	1,4-Dioxane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
78-93-3	**2-Butanone**	**6.1**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
591-78-6	2-Hexanone	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
108-10-1	**4-Methyl-2-pentanone**	**3.0**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
67-64-1	**Acetone**	**68**		ppbv	2.2	2.2	21.63	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 09:48	TD
71-43-2	**Benzene**	**1.4**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
100-44-7	Benzyl chloride	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-27-4	Bromodichloromethane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-25-2	Bromoform	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
74-83-9	Bromomethane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-15-0	Carbon disulfide	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
56-23-5	Carbon tetrachloride	ND		ppbv	0.11	0.11	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
108-90-7	Chlorobenzene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-00-3	Chloroethane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
67-66-3	Chloroform	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
74-87-3	**Chloromethane**	**0.93**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD

Sample Information

Client Sample ID: **SV-3** **York Sample ID:** **13F0885-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0885	415 Manhattan Ave Brooklyn, NY	Soil Vapor	June 25, 2013 3:00 pm	06/26/2013

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	**cis-1,2-Dichloroethylene**	**0.30**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
110-82-7	**Cyclohexane**	**0.63**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
124-48-1	Dibromochloromethane	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-71-8	**Dichlorodifluoromethane**	**0.48**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
141-78-6	**Ethyl acetate**	**7.1**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
100-41-4	**Ethyl Benzene**	**1.4**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
87-68-3	Hexachlorobutadiene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
67-63-0	**Isopropanol**	**14**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
80-62-6	Methyl Methacrylate	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-09-2	**Methylene chloride**	**1.3**	B	ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
142-82-5	**n-Heptane**	**1.1**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
110-54-3	**n-Hexane**	**4.7**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
95-47-6	**o-Xylene**	**2.3**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
179601-23-1	**p- & m- Xylenes**	**5.1**		ppbv	0.43	0.43	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
622-96-8	**p-Ethyltoluene**	**1.9**		ppbv	1.1	1.1	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
115-07-01	Propylene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
100-42-5	Styrene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
127-18-4	**Tetrachloroethylene**	**0.28**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
109-99-9	**Tetrahydrofuran**	**2.1**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
108-88-3	**Toluene**	**28**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
79-01-6	Trichloroethylene	ND		ppbv	0.11	0.11	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.35**		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
108-05-4	Vinyl acetate	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD
75-01-4	Vinyl Chloride	ND		ppbv	0.22	0.22	2.163	EPA Compendium TO-15	06/27/2013 09:00	06/28/2013 12:19	TD

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record - AIR

Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0885

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Laurel Environmental	Company: Scott	Company: Kathy	415 Manhattan Ave Brooklyn, NY	RUSH - Same Day ☐	Summary Report ✓
Address: 53 W. Hills Rd Hunt. Station, NY	Address:	Address:		RUSH - Next Day ☐	Summary w/ QA Summary
Phone No. 631 673 0612	Phone No.	Phone No.	Purchase Order No. 12-409	RUSH - Two Day ☐	CT RCP Package
Contact Person: Scott	Attention:	Attention:		RUSH - Three Day ☐	NY ASP A Package
E-Mail Address: labresults@laurelenv.com	E-Mail Address: labresults@laurelenv.com	E-Mail Address:	Samples from: CT___ NY ✓ NJ___	RUSH - Four Day ☐	NY ASP B/CLP Pkg
				Standard(5-7 Days) ☒	NJDEP Reduced
					Electronic Deliverables:
					EDD (Specify Type)
					Standard Excel
					Regulatory Comparison Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Tom Johansen
Name (printed)

Air Matrix Codes

AI - INDOOR Ambient Air
AO- OUTDOOR Amb. Air
AE- Vapor Extraction Well/ Process Gas/Effluent
AS- SOIL Vapor/Sub-Slab

TO15 Volatiles and Other Gas Analyses

EPA TO-15 List	EPA TO-14A List
NYSDEC VI list	Tentatively Identified Compounds
NYSDEC STARS List	Air VPH
Project Specific List by TO-15	Helium
NJDEP Target List	Methane
CTDEP RCP Target List	OTHER

Detection Limits Required

≤ 1 ug/m³
NYSDEC VI Limits (VI =vapor instrusion)
NJDEP low level
Routine Survey
Other

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum Afer Sampling (in. Hg)	Choose Analyses Needed from the Menu Above and Enter Below	Sampling Media
SV-1	6-25-13	AS	-30	-2	TO15	6 Liter Summa canister ✓ Tedlar Bag
SV-2	↓	↓	-29	-2	↓	6 Liter Summa canister ✓ Tedlar Bag
SV-3			-30	-5		6 Liter Summa canister ✓ Tedlar Bag
						6 Liter Summa canister ___ Tedlar Bag
						6 Liter Summa canister ___ Tedlar Bag
						6 Liter Summa canister ___ Tedlar Bag
						6 Liter Summa canister ___ Tedlar Bag
						6 Liter Summa canister ___ Tedlar Bag
						6 Liter Summa canister ___ Tedlar Bag
						6 Liter Summa canister ___ Tedlar Bag

Comments

Samples Relinquished By — Date/Time: 6-26-13 / 0900

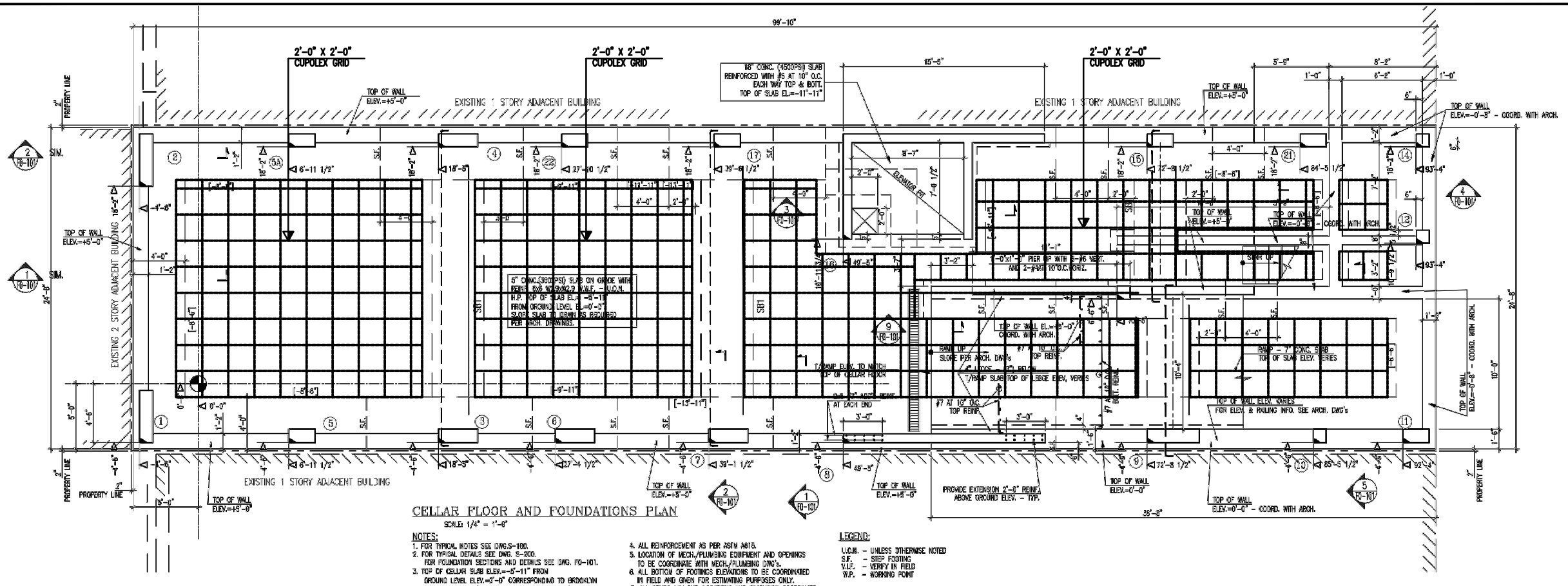
Samples Relinquished By — Date/Time

Samples Received By — Date/Time: 6-25-13 12pm

Samples Received in LAB by — Date/Time: 6-26-13 @ 1715 ~~1750~~

Appendix G

Design Diagrams and Specifications for Vapor Barrier/Waterproofing Membrane



CELLAR FLOOR AND FOUNDATIONS PLAN

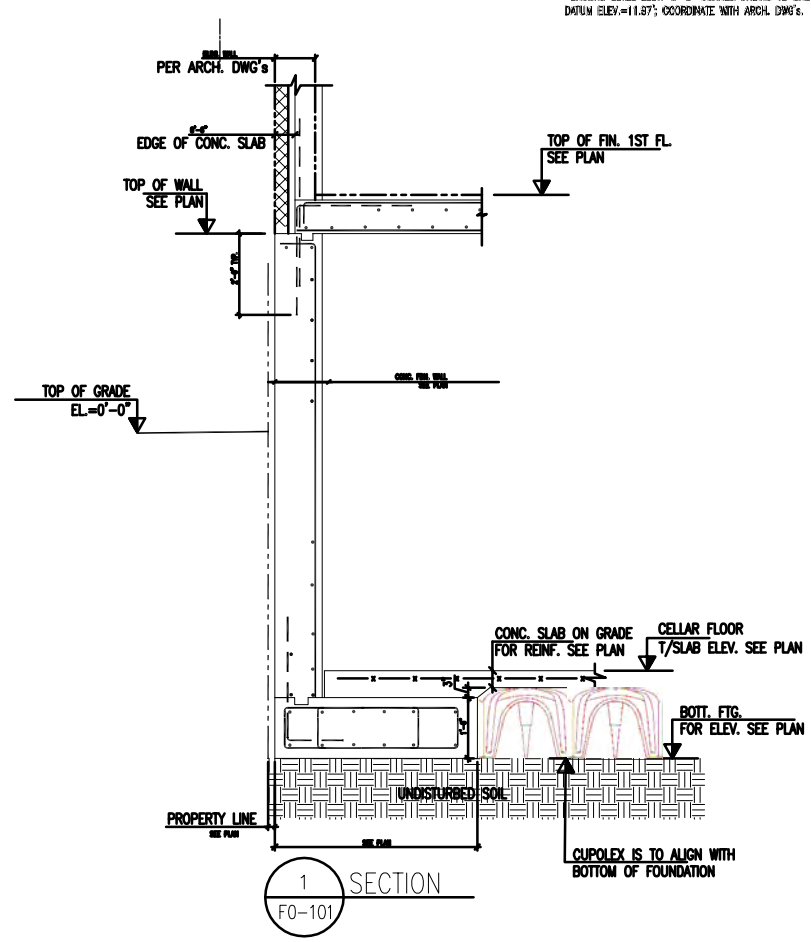
SCALE: 1/4" = 1'-0"

NOTES:

1. FOR TYPICAL NOTES SEE DWG.S-100.
2. FOR TYPICAL DETAILS SEE DWG. S-200.
   FOR FOUNDATION SECTIONS AND DETAILS SEE DWG. FO-101.
3. TOP OF CELLAR SLAB ELEV.=-5'-11" FROM GROUND LEVEL ELEV.=0'-0" CORRESPONDING TO BROOKLYN DATUM ELEV.=11.87'; COORDINATE WITH ARCH. DWG's.
4. ALL REINFORCEMENT AS PER ASTM A615.
5. LOCATION OF MECH./PLUMBING EQUIPMENT AND OPENINGS TO BE COORDINATE WITH MECH./PLUMBING DWG's.
6. ALL BOTTOM OF FOOTINGS ELEVATIONS TO BE COORDINATED IN FIELD AND GIVEN FOR ESTIMATING PURPOSES ONLY.
7. ALL STAIRS LAY OUT, LOCATIONS AND DIMENSION COORDINATE WITH ARCHITECTURAL DRAWINGS.
8. THICKENED SLAB UNDER PARTITION WALL PER TYPICAL DETAILS. SEE WERE SHOWN ON PLAN.

LEGEND:

U.O.N. - UNLESS OTHERWISE NOTED
S.F. - STEP FOOTING
V.I.F. - VERIFY IN FIELD
W.P. - WORKING POINT



1 / FO-101 SECTION

THE DESIGN,DETAILS, AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95.

No.	Revision	Date
0	For Coordination	9/27/11

The architect and/or engineer shall not have control or charge of and shall not be responsible for construction means, methods, devices, techniques, sequences or procedures, or for safety precautions and programs in connection with the work; for the acts or omissions of the contractor or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents

Architect and/or engineer not retained for inspection of operations. Contractor is responsible for site conditions at the site and discrepancies to be verified by contractor before proceeding with work.
Do not scale drawing, use dimensions. Architect and/or engineer will always provide from the municipal agencies having jurisdiction before starting work and he shall obtain all approvals and certificates of completion or a certificate of occupancy upon completion of work.

Project:
415 Manhattan Avenue
Brooklyn N.Y. 11229

LEONID KRUPNIK P.E.
Structural Engineer
139 Fulton Street, Suite 214
New York, NY 10038
(212) 393-9679

Drawing Title
FOUNDATION PLAN.

Drawn	LK
Checked	LK
Date	6/02/13
Scale	AS NOTED
Job No.	13-18
Drawing No.	FO-100.00
	1 OF 2

Appendix E

Example of Non-Hazardous Waste Manifest

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

11800

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

GENERATOR		AGENT / CONSULTANT	
Generator Name:	Russia House Enterprises	Name:	Innovative Earth Services
Address:	131 Union Street	Contact Name:	Jack Digangi
City, State, Zip:	Brooklyn, NY 11231	Phone:	(718) 751-3478

Approval Number	Description of Material		SITE	INITIALS
[illegible]	Non Hazardous Petroleum Contaminated Soil	Time Arrive:		
		Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

[illegible] | [signature] | [illegible]
Generator Authorized Agent Name (Print) | Signature | Shipment Date

TRANSPORTER

Transporter Name:	AVR / Azetid	Driver Name (Print):	[illegible]
Address:	393 [illegible]	Vehicle License No/State/EPA No.:	[illegible]
City, State, Zip:	E. Hanover, N.J.	Truck Number:	[illegible]

I hereby certify that the above named material was picked up at the generator site listed above.

[signature] | [illegible]
Driver Signature | Date

Arrival Time: _____ Departure Time: _____

I hereby certify that the above named material was delivered without incident to the destination listed

_____ | _____
Driver Signature | Date

Arrival Time: _____ Departure Time: _____

DESTINATION

Site Name: **PURE SOIL TECHNOLOGIES** Phone: **732-657-8551**
Address: **655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527**

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

_____ | [signature] | [illegible]
Name of Authorized Agent | Signature | Receipt Date

Form: PST

PROFILE COPY