606 WEST 57TH STREET

MANHATTAN, NEW YORK

Remedial Investigation Report

NYC VCP Site Number: Site Number _____

OER Project Number: 14EHAN423M

Prepared for:

TFC West 57 GC LLC

387 Park Avenue South

New York, New York 10016

212-672-1000

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September 2014

REMEDIAL INVESTIGATION REPORT
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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
AST	Aboveground storage tank
BTEX	Benzene, toluene, ethylbenzene and xylenes
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 for Site Investigation and Remediation
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
NAVD88	North American Vertical Datum of 1988
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
NYCRR	New York Codes, Rules and Regulations
NYSDOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PAH	Polycyclic aromatic hydrocarbons
PBS	Petroleum Bulk Storage
PCB	Polychlorinated biphenyls
PCE	Tetrachloroethene
PID	Photoionization Detector
ppb	Parts per billion

Acronym	Definition
QA/QC	Quality assurance/quality control
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
RRSCO	Restricted Residential Soil Cleanup Objective
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database
STARS	Spills Technology and Remediation Series
SVOC	Semivolatile organic compounds
TAL	Target Analyte List
TCL	Target Compounds List
TCE	Trichloroethane
TCE	Trichloroethene
UST	Underground storage tank
USCO	Unrestricted Use Soil Cleanup Objective
VOC	Volatile organic compound

CERTIFICATION

I, Marc S. Godick, L.E.P., 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 Site 606 West 57th Street, (NYC VCP Site No. _____). 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.

Marc S. Godick, L.E.P.	_____	_____
Qualified Environmental Professional	Date	Signature

EXECUTIVE SUMMARY

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

Site Location and Current Usage

The Site is located at 606 West 57th Street in the Clinton neighborhood of Manhattan, New York and is identified as Block 1104 and Lots 31, 40, 44, and 55 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 39,400-square feet and is bounded by West 57th Street to the north, West 56th Street and a New York City Sanitation garage to the south, Eleventh Avenue and commercial buildings to the east, and the New York City Sanitation garage to the west. A map of the Site boundary is shown in Figure 2. Currently, the Site is used for automotive sales, service, and parking. Lots 31 and 40 are currently developed as Lexus and Acura automotive dealerships with low-rise structures for sales and service and open areas for vehicle handling, pickup, and short-term storage. Lot 44 contains a four-story parking garage and Lot 55 contains a one-story auto repair shop.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of demolition of existing buildings and construction of a new mixed-use building covering the full Site lots. Planned development consists of a tiered building varying from two to 42 stories with two basement levels and will cover the entire footprint of the Site lots. The building will contain up to 1,029 residential apartments, ground floor retail uses up to 39,400 gross square feet, and up to 440 below-grade parking spaces. Twenty percent of residential units will be affordable housing.

Development plans consist of the anticipated excavation generally to elevation 0 to -12 feet (below the water table) with numerous pile caps throughout the Site extending to elevations -7 to -16.5 feet [North American Vertical Datum of 1988 (NAVD88)]. Accounting for Site topography and elevation changes the depth of the bottom of pile caps will vary from approximately 14 to 30 feet below sidewalk grade. It is anticipated that there will be three deeper elevator pits in the central portion of the Site extending to elevation -18 feet to elevation -22 feet (NAVD88 datum). The excavation for Site development is anticipated to consist of about 75,000 cubic yards of soil and rock.

A current topographic survey and layout of the proposed Site development are presented in Appendix A. The current zoning designation is C4-7 commercial use. The proposed use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern (AOCs)

Historical Sanborn Insurance maps, regulatory database records, New York City Buildings and Fire Department records, and a Site visit indicated that the study Site was occupied by manufacturing and auto-related facilities, including some with buried gasoline tanks and fuel oil tanks. Historical land use maps and the regulatory database search also indicated that the surrounding neighborhood has a history of commercial, industrial and manufacturing use, including auto-related operations. Reported and unknown releases from on- and off-Site locations may have affected subsurface conditions at the subject Site.

AKRF's Phase I ESA report, spill investigation and remedial documentation and site inspections identified the following environmental issues:

- The Phase I ESA summarized findings of a Phase II Subsurface Investigation of the Site; these soil and groundwater results are detailed within this RIR. The Phase I ESA also summarized the status of tank closure activities at that time; details regarding the tank closure and remediation are provided below.
- Two approximately 500-gallon motor oil aboveground storage tanks (ASTs) were noted on the first floor of the Lexus auto repair shop on Lot 31. One 500-gallon AST containing used motor oil was located on the first floor in the auto repair shop on Lot 40. Two abandoned 500-gallon ASTs formerly containing new and used motor oil, two in-service approximately 500-gallon lubrication oil ASTs, and a cinderblock structure containing a suspect abandoned fuel oil AST were all noted in the basement of Lot 44.
- Manways and four vent pipes were located in the ramp providing access from West 57th Street to the parking garage on Lot 44, and were believed to be associated with abandoned gasoline underground storage tanks (USTs). Two fill caps noted on the wall of the garage near the West 56th Street entrance may have been associated with abandoned ASTs on Lot 44 or other suspect tanks. Several gasoline tanks were noted on historical Sanborn fire insurance maps on Lots 40, 44, and potentially 55.
- The database search provided by Toxics Targeting, Inc. indicated a Fire Department record regarding a 4,000-gallon No. 2 fuel oil tank on Lot 31. The facility was listed as CX Auto of NY, Inc. at 835 Eleventh Avenue. Lexus employees were not aware of this tank.
- The database search also indicated that Auto Tech, located at 622 West 57th Street (on-Site at Lot 44), was listed as a Small Quantity Generator of 60 pounds of chromium in 1997 and 15 gallons of ignitable solid waste in 1996.
- Computerized NYC Buildings Department records identified permits and Fire Department approval records indicating fuel oil use on Lots 31, 40 and 44 and one or more gasoline tanks on Lot 44. Gasoline tanks are typically located underground. Based on the identified records, in addition to the observed active and abandoned ASTs, gasoline and/or fuel oil underground storage tanks may have been located on-Site in the past, and may remain buried beneath the Site.
- New York State Department of Environmental Conservation (NYSDEC) Petroleum Bulk Storage (PBS) database indicated one 500-gallon waste oil AST at Lexus of Manhattan, 829 Eleventh Avenue, on Lot 31. The tank registered to Lexus was likely one of the tanks observed on the first floor of this building during the reconnaissance.
- On Lot 44, hydraulic oil was stored in a 30-gallon tank on the western wall of the basement. Hydraulic car lifts were located on the third and fourth floors, and a 10- to 15-gallon hydraulic oil tank along the northern wall of each floor serviced the lifts. In the Lexus dealership on Lot 31, hydraulic oil for the elevator was stored in a 50-gallon tank located in the basement. Evidence of abandoned underground lifts were observed in the maintenance areas. Aboveground hydraulic lifts with hydraulic tanks less than two gallons in capacity were located in the auto maintenance facility on Lots 31 and 40, and several lifts on the second floor of the Lot 40 building were supplied by an approximately 20-gallon hydraulic tank. Several service covers potentially indicating subgrade lifts were visible on the ground floor of the Lexus auto repair shop on Lot 31 and in the basement of Lot 44.
- In addition to the identified aboveground and underground storage tanks, petroleum products and solvents were observed stored throughout the Site in drums and other containers. Some oil staining was visible on the concrete floors of the buildings.

- Three job filings in 1992 were identified in the NYC Buildings Department records for Lot 40 indicating the installation of an oil-water separator and two spray booths. However, according to the Lexus service manager, no spray booths were located in the building. The manager was not certain whether an oil-water separator was installed in 1992.
- Electrical panels, hydraulic fluid containers, abandoned hydraulic lifts, hydraulic elevators, and the transformer vault were observed on Lot 44 might contain polychlorinated biphenyls (PCBs). Depending upon the age of these systems, oil associated with the systems may have historically contained PCBs.
- Historical land use maps and the regulatory database search indicated that adjacent properties and the surrounding neighborhood had a history of commercial, industrial and manufacturing use, including auto-related operations. Historical land use maps, regulatory records and the Site visit indicated evidence of past or present petroleum storage tanks on properties east of the Site (in the anticipated upgradient groundwater flow direction) and north-, south- and west-adjacent to the Site. Reported and unknown releases from on- and off-site locations may have affected subsurface conditions at the Site.

Summary of the Work Performed under the Remedial Investigation

The following activities were performed as part of the remedial investigation and spill remediation evaluation of residual concentrations:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed twenty-eight soil borings across the entire project Site (outside of samples of subsequently remediated/removed soil), and collected thirty-nine soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Collected four post-excavation endpoint soil samples from each sidewall of the area of spill remediation to evaluate remaining soil quality;
4. Installed five temporary and four permanent groundwater monitoring wells throughout the Site and collected twenty groundwater samples for chemical analysis to evaluate groundwater quality;
5. Installed seven soil vapor probes around Site perimeter and collected seven soil vapor samples and one ambient air sample for chemical analysis.

A figure showing the environmental sampling locations is provided as Figure 5.

Summary of Environmental Findings

1. Elevation of the Site ranges from 12.5 feet on the western side to 25.5 feet on the eastern side (NAVD88 datum).
2. Depth to groundwater ranges from about 10 to 20 feet below sidewalk grade at the Site.
3. Groundwater flow is generally from east to west beneath the Site.
4. Depth to bedrock ranges from approximately 10 feet below sidewalk grade on the eastern side of the Site to 70 feet below sidewalk grade on the western side of the Site.
5. The stratigraphy of the Site, from the surface down, consists of fill, varying from 5 to 20 feet below grade, underlain by 10 to 35 feet of sandy soil with varying amounts of silt, clay and gravel, underlain by bedrock.

6. The results of soil/fill samples collected during the RI showed one volatile organic compound (VOC) detected at a concentration exceeding the NYSDEC Restricted Residential Use Soil Cleanup Objectives (RRSCOs) listed in 6 NYCRR Subpart 375 [1,2,4-trimethylbenzene, concentration 79,000 parts per billion (ppb)]. PCE was detected in seven samples at low-level concentrations below both the RRSCO and Unrestricted Use SCO (USCO). TCE, TCA, and carbon tetrachloride were not detected. Seven semivolatile organic compounds (SVOCs) were detected at concentrations exceeding their respective RRSCOs: benzo(a)pyrene (maximum of 15,000 ppb), benzo(a)anthracene (maximum of 19,000 ppb), benzo(b)fluoranthene (maximum of 16,000 ppb), benzo(k)fluoranthene (maximum of 6,700 ppb), chrysene (maximum of 19,000 ppb), and indeno(1,2,3-cd)pyrene (maximum of 12,000 ppb). The SVOC concentrations were polycyclic aromatic hydrocarbons (PAHs) which are typical of urban fill material. Seven metals were detected in soil samples at concentrations exceeding their respective RRSCOs: lead [maximum of 11,800 parts per million (ppm)], mercury (maximum of 54.2 ppm), arsenic (maximum of 41.5 ppm), barium (maximum of 3,020 ppm), cadmium (maximum of 18.5 ppm), copper (maximum of 1,550 ppm), and zinc (maximum of 14,000 ppm). PCBs and pesticides were not detected above RRSCOs in any of the soil samples.

7. The results of groundwater samples collected during the RI showed nine VOCs detected above the Class GA Groundwater Quality Standards: 1,2,4-trimethylbenzene (maximum of 7.4 ppb), benzene (maximum of 12 ppb), isopropylbenzene (maximum of 8.7 ppb), m/p xylene (maximum of 14 ppb), naphthalene (maximum of 1,100 ppb), n-propylbenzene (maximum of 16 ppb), o-xylene (maximum of 10 ppb), sec-butylbenzene (maximum of 7.1 ppb), and toluene (maximum of 14 ppb). The chlorinated VOCs PCE, TCE, TCA, and carbon tetrachloride were not detected in any of the groundwater samples collected. Twelve SVOCs were detected above their respective Class GA Standards, including: acenaphthene (maximum of 110 ppb), naphthalene (maximum of 550 ppb), fluorene (maximum of 57 ppb), phenanthrene (maximum 61 ppb), and phenol (maximum 1.1 ppb). The remaining SVOCs, as follows, are most likely attributable to suspended soil particles in the groundwater and are typical of urban fill: benzo(a)pyrene (maximum of 1.1 ppb), benzo(a)anthracene (maximum of 3.3 ppb), benzo(b)fluoranthene (maximum of 1.2 ppb), benzo(k)fluoranthene (maximum of 0.63 ppb), chrysene (maximum of 2.7 ppb), indeno(1,2,3-cd)pyrene (maximum of 0.65 ppb), and bis(2-ethylhexyl)phthalate (maximum of 7.4 ppb). Four metals were detected above Class GA Standards in the filtered metals analyses: arsenic (maximum of 33 ppb), manganese, sodium, and selenium. No PCBs or pesticides were detected above Class GA Standards.

8. The results of soil vapor samples collected during the RI showed 22 VOCs were detected in the soil vapor. Solvent-related VOCs (including PCE, TCE, TCA, carbon tetrachloride, acetone, and chloroform) were detected in soil vapor. The maximum solvent concentration was acetone at 1,850 micrograms per cubic meter ($\mu g/m^3$), which is a common laboratory contaminant and is not likely to be related to Site contamination. One soil vapor sample had a PCE concentration slightly above the NYSDOH Air Guideline Value (AGV) for indoor air of 30 $\mu g/m^3$, with a concentration of 30.5 $\mu g/m^3$. VOCs associated with petroleum [including benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), 1,2,4-trimethylbenzene, cyclohexane, heptane, hexane, and 2,2,4-trimethylpentane] were detected at concentrations up to 193 $\mu g/m^3$.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

TFC West 57 GC LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 39,400-square foot site located at 606 West 57th Street in the Clinton neighborhood of Manhattan, New York (the "Site"). Mixed commercial-residential use is proposed for the property. The RI work was performed between October 2007 and May 2014. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 606 West 57th Street in the Clinton neighborhood of Manhattan, New York and is identified as Block 1104 and Lots 31, 40, 44, and 55 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 39,400-square feet and is bounded by West 57th Street to the north, West 56th Street and a New York City Sanitation garage to the south, Eleventh Avenue and commercial buildings to the east, and the New York City Sanitation garage to the west. A map of the Site boundary is shown in Figure 2. Currently, the Site is used for automotive sales, service, and parking. Lots 31 and 40 are currently developed as Lexus and Acura automotive dealerships with low-rise structures for sales and service and open areas for vehicle handling, pickup, and short-term storage. Lot 44 contains a four-story parking garage and Lot 55 contains a one-story auto repair shop.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of demolition of existing buildings and construction of a new mixed-use building covering the full Site lots. Planned development consists of a tiered building varying from two to 42 stories with two basement levels and will cover the entire footprint of the Site lots. The building will contain up to 1,029 residential apartments, ground floor retail uses up to 39,400 gross square feet, and up to 440 below-grade parking spaces. Twenty percent of residential units will be affordable housing.

Development plans consist of the anticipated excavation generally to elevation -0 to -12 feet (which is below the water table) with numerous pile caps throughout the Site extending to elevations -7 to -16.5 feet [North American Vertical Datum of 1988 (NAVD88)]. Accounting for Site topography and elevation changes the depth of the bottom of pile caps will vary from approximately 14 to 30 feet below sidewalk grade. It is anticipated that there will be deeper three elevator pits in the central portion of the Site extending to elevation -18 feet to elevation -22 feet (NAVD88 datum). The excavation for Site development is anticipated to consist of about 75,000 cubic yards of soil and rock.

A current topographic survey and layout of the proposed Site development are presented in Appendix A. The current zoning designation is C4-7 commercial use. The proposed use is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

The Site is bordered to the north by West 57th Street with a construction Site, residential properties, and a Con Edison facility further north. East-adjacent properties were used for commercial purposes with Eleventh Avenue bordering a portion of the eastern property boundary. To the west and south of the Site is a New York City Department of Sanitation facility. The Site

was partially bordered to the south by West 56th Street, beyond which are automobile dealership and service facilities.

Figure 3 shows the general surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Historical Sanborn Insurance maps, regulatory database records, New York City Buildings and Fire Department records, and a Site visit indicated that the study Site was occupied by manufacturing and auto-related facilities, including some with buried gasoline tanks and fuel oil tanks. Historical land use maps and the regulatory database search also indicated that the surrounding neighborhood has a history of commercial, industrial and manufacturing use, including auto-related operations. Reported and unknown releases from on- and off-Site locations may have affected subsurface conditions at the subject Site.

2.2 Previous Investigations

Phase I Environmental Site Assessment, Tax Block 1104, Lots 25, 29, 31, 36, 40, 44 and 55, New York, New York, AKRF, Inc., December 2012

AKRF's Phase I ESA report identified the following environmental issues:

- The Phase I ESA summarized findings of a Phase II Subsurface Investigation of the Site; these soil and groundwater results are detailed within this RIR. The Phase I ESA also summarized the status of tank closure activities at that time; details regarding the tank closure and remediation are provided below.
- Two approximately 500-gallon motor oil aboveground storage tanks (ASTs) were noted on the first floor of the Lexus auto repair shop on Lot 31. One 500-gallon AST containing used motor oil was located on the first floor in the auto repair shop on Lot 40. Two abandoned 500-gallon ASTs formerly containing new and used motor oil, two in-service approximately 500-gallon lubrication oil ASTs, and a cinderblock structure containing a suspect abandoned fuel oil AST were all noted in the basement of Lot 44.
- Manways and four vent pipes were located in the ramp providing access from West 57th Street to the parking garage on Lot 44, and were believed to be associated with abandoned gasoline underground storage tanks (USTs). Two fill caps noted on the wall of the garage near the West 56th Street entrance may have been associated with abandoned ASTs on Lot 44 or other suspect tanks. Several gasoline tanks were noted on historical Sanborn fire insurance maps on Lots 40, 44, and potentially 55.
- The database search provided by Toxics Targeting, Inc. indicated a Fire Department record regarding a 4,000-gallon No. 2 fuel oil tank on Lot 31. The facility was listed as CX Auto of NY, Inc. at 835 Eleventh Avenue. Lexus employees were not aware of this tank.
- The database search also indicated that Auto Tech, located at 622 West 57th Street (on-Site at Lot 44), was listed as a Small Quantity Generator of 60 pounds of chromium in 1997 and 15 gallons of ignitable solid waste in 1996.
- Computerized NYC Buildings Department records identified permits and Fire Department approval records indicating fuel oil use on Lots 31, 40 and 44 and one or more gasoline tanks on Lot 44. Gasoline tanks are typically located underground. Based on the identified records, in addition to the observed active and abandoned ASTs, gasoline and/or fuel oil

underground storage tanks may have been located on-Site in the past, and may remain buried beneath the Site.

- New York State Department of Environmental Conservation (NYSDEC) Petroleum Bulk Storage (PBS) database indicated one 500-gallon waste oil AST at Lexus of Manhattan, 829 Eleventh Avenue, on Lot 31. The tank registered to Lexus was likely one of the tanks observed on the first floor of this building during the reconnaissance.
- On Lot 44, hydraulic oil was stored in a 30-gallon tank on the western wall of the basement. Hydraulic car lifts were located on the third and fourth floors, and a 10- to 15-gallon hydraulic oil tank along the northern wall of each floor serviced the lifts. In the Lexus dealership on Lot 31, hydraulic oil for the elevator was stored in a 50-gallon tank located in the basement. Evidence of abandoned underground lifts were observed in the maintenance areas. Aboveground hydraulic lifts with hydraulic tanks less than two gallons in capacity were located in the auto maintenance facility on Lots 31 and 40, and several lifts on the second floor of the Lot 40 building were supplied by an approximately 20-gallon hydraulic tank. Several service covers potentially indicating subgrade lifts were visible on the ground floor of the Lexus auto repair shop on Lot 31 and in the basement of Lot 44.
- In addition to the identified aboveground and underground storage tanks, petroleum products and solvents were observed stored throughout the Site in drums and other containers. Some oil staining was visible on the concrete floors of the buildings.
- Three job filings in 1992 were identified in the Buildings Department records for Lot 40 indicating the installation of an oil-water separator and two spray booths. However, according to the Lexus service manager, no spray booths were located in the building. The manager was not certain whether an oil-water separator was installed in 1992.
- Electrical panels, hydraulic fluid containers, abandoned hydraulic lifts, hydraulic elevators, and the transformer vault were observed on Lot 44 might contain polychlorinated biphenyls (PCBs). Depending upon the age of these systems, oil associated with the systems may have historically contained PCBs.
- Historical land use maps and the regulatory database search indicated that adjacent properties and the surrounding neighborhood had a history of commercial, industrial and manufacturing use, including auto-related operations. Historical land use maps, regulatory records and the Site visit indicated evidence of past or present petroleum storage tanks on properties east of the Site (in the anticipated upgradient groundwater flow direction) and north-, south- and west-adjacent to the Site. Reported and unknown releases from on- and off-site locations may have affected subsurface conditions at the Site.

Tank Removal and Related Remedial Action, 2008-2013

Activities related to tank and spill closure were detailed in the following documents:

- *Groundwater Investigation Report, 835 11th Avenue, New York, NY*; AKRF, Inc., March 2008;
- *Tank Removal Letter Report, 835 11th Avenue, New York, NY*; AKRF, Inc.; July 18, 2008;
- *Groundwater Sampling Progress Report, 835 11th Avenue, New York, NY*; AKRF, Inc.; September 28, 2009;
- *Groundwater Sampling Progress Report, 835 11th Avenue, New York, NY*; AKRF, Inc.; April 23, 2010;

- *Groundwater and Soil Sampling Letter Report, 835 11th Avenue, New York, NY*; AKRF, Inc.; September 28, 2010;
- *Remedial Action Work Plan, 835 11th Avenue, New York, NY*; AKRF, Inc.; February 2013;
- *Remedial Action Report, 835 11th Avenue, New York, NY*; AKRF, Inc.; September 2013; and
- *Groundwater Sampling Progress Report, 835 11th Avenue, New York, NY*; AKRF, Inc.; December 4, 2013.

Soil and groundwater sampling performed in October 2007 identified soil and groundwater impacted with volatile organic compounds (VOCs) and semi-volatile organic compound (SVOCs) south and west of a former 1,000-gallon fuel oil AST in the basement of Lot 31. Based on the soil and groundwater results, a spill was reported to NYSDEC and Spill No. 0708204 was assigned. AKRF conducted a tank closure, related investigation, and remedial activities from 2008 to 2013. The tank was closed and removed in May 2008. In January 2009, in-situ chemical oxidation injection was performed at nine injection points to remediate subsurface contamination. Post-injection sampling performed between 2009 and 2013 indicated a significant decline in soil and groundwater contaminant concentrations; however, some residual soil contamination remained beneath the former AST. Approximately 30 cubic yards of soil were then excavated in 2013 from beneath the basement floor to remove accessible soil contamination in the source area near the former AST to the extent practical. Endpoint soil samples indicated some residual contamination. These endpoint groundwater monitoring results are incorporated into the soil and groundwater sampling discussion in this RIR. Post-excavation groundwater monitoring indicated relatively stable groundwater concentrations and the spill was closed by NYSDEC on December 6, 2013.

2.3 Site Inspection

A detailed Site inspection was performed as part of the Phase I ESA in 2012. In anticipation of proposed redevelopment and to review drilling access, AKRF performed an additional inspection in May 2014.

2.4 Areas of Concern

Areas of concern identified for the Site in the Phase I ESA and subsequent investigations are shown on Figure 4.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Marc S. Godick, LEP.

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 The Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) requirements. The work described in this RIR was also performed in accordance with a Site specific Health and Safety Plan (HASP).

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations. All soil cuttings generated in the sampling process were placed downhole or placed

in a 55-gallon drum for off-site disposal. All purged water was containerized in a 55-gallon drum for off-site disposal.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

The following activities were performed as part of the remedial investigation and spill remediation evaluation of residual concentrations:

9. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
10. Installed twenty-eight soil borings across the entire project Site (outside of samples of subsequently remediated/removed soil), and collected thirty-nine soil samples for chemical analysis from the soil borings to evaluate soil quality;
11. Collected four post-excavation endpoint soil samples from each sidewall of the area of spill remediation to evaluate soil quality;
12. Installed five temporary and four permanent groundwater monitoring wells throughout the Site and collected twenty groundwater samples for chemical analysis to evaluate groundwater quality;
13. Installed seven soil vapor probes around Site perimeter and collected seven soil vapor samples and one ambient air sample for chemical analysis.

A figure showing the environmental sampling locations is provided as Figure 5.

4.1 Geophysical Investigation

Because of the presence of existing buildings and structures, a geophysical survey was not performed across the Site to investigate for the presence of potential USTs, drums, etc. Areas with known or suspected lifts or tanks will be investigated and remediated as part of demolition and construction.

4.2 Borings and Monitoring Wells

4.2.1 Drilling and Soil Sample Collection

Soil samples were field-screened using a photoionization detector (PID), which measures relative concentrations of VOCs in the soil. The PID was calibrated at the beginning of each work day with 100 parts per million (ppm) isobutylene calibration gas. At each boring location, AKRF field personnel recorded and documented subsurface conditions. Boring logs were prepared by an environmental scientist and are attached in Appendix B. Soil sampling locations are shown in Figure 5.

Direct Push Soil Borings

Both track mounted and a remote Geoprobe® direct push probe units were used to advance twenty-four soil borings at the Site between October 1 and October 5, 2007. Soil samples were submitted for analyses from twenty-two soil borings (no samples form B-14 or B-23). The soil borings were advanced to refusal or 25 feet below street level, whichever was encountered first. Multiple refusals were encountered in direct push soil borings at depths ranging from 4 to 24 feet below grade. Borings were advanced from both street level (B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-101, B-102, B-103, and B-104) and basement level (B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, B-11, B-12, B-24, EP-SW-SOUTH, EP-SW-EAST, EP-SW-WEST, EP-SW-NORTH).

Soil samples were advanced with three or four-foot long, two inch diameter, macrocore piston rod samplers fitted with dedicated acetate liners. One to two samples were collected from each soil boring.

Hollow-Stern Auger Soil Borings

A track mounted hollow-stem auger (HSA) rotary rig was used to advance four soil borings at the Site between January 7 and January 9, 2008. The soil borings were completed as monitoring wells, as discussed in Section 4.2.2. This study was intended to determine the source of the reported spill and further delineate the extent of soil contamination. Soil samples from HSA drilling were collected by driving a split spoon sampler into the subsurface at two-foot intervals.

Post-Excavation Grab Sampling

Post-excavation endpoint samples were collected from exposed sidewalls with hand tools. Since the excavation was extended to groundwater, no bottom endpoint samples were collected.

4.2.2 Groundwater Monitoring Well Construction

Five temporary monitoring wells were installed at the Site between October 1 and October 5, 2007. The temporary wells were constructed of one-inch PVC pipe with a 10-foot length of well screen. Wells were purged prior to sampling until at least three well volumes were evacuated. Groundwater samples were placed directly into laboratory-supplied containers and a chilled cooler.

Four permanent monitoring wells were installed at the Site between January 7 and 9, 2008. This study was intended to evaluate the reported spill and further delineate the extent of contamination. The monitoring wells were constructed of two-inch PVC pipe with a 10-foot length of screen intersecting the water table. All monitoring wells were completed with a locking well cap and a flush-mounted manhole. Prior to sampling, the monitoring wells were purged until at least three well volumes had been evacuated. Groundwater samples were collected using dedicated bailers and placed directly into laboratory-supplied containers and a chilled cooler.

Temporary and permanent monitoring well locations are shown in Figure 5.

4.2.3 Survey

The location of soil borings and monitor wells were measured to fixed features at the time of sampling. Permanent monitoring well locations and elevations were sampled by a New York licensed surveyor.

4.2.4 Water Level Measurement

The depth to groundwater was measured using an electronic water level meter. Top of PVC casing elevations were measured by a survey of the four permanent monitoring wells performed on October 23, 2013. Groundwater was observed between approximately 5 to 19 feet below grade during the RI activities from elevation 5.93 to 9.35 feet (elevations are in reference to the NAVD88 Datum, which is 1.65 feet above Borough of Manhattan Highway Datum). Actual water table depth and groundwater flow direction can be affected by many factors including local topography, bedrock geology, past filling activities, subsurface openings or obstructions such as basements, underground utilities, and other factors beyond the scope of this assessment. Water level data for the permanent site monitoring wells on the eastern side of the Site is included in Table 1.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, 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 evaluation of the nature and extent of contamination and to assess the potential 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.

4.3.1 Soil Sampling

Forty-three soil samples were collected for chemical analysis during this RI: thirty-five from soil borings advanced in October 2007 for the site-wide subsurface investigation; four from soil borings advanced in January 2008 to further evaluate and delineate the extent of soil contamination from a reported spill; and four post-excavation endpoint soil samples in 2013 from each sidewall of the area of spill remediation.

Two QA/QC samples were collected and analyzed at an NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. QA/QC sampling consisted of one aqueous field blank sample and one aqueous trip blank sample, both submitted with the January 2008 sampling event. The field blank was analyzed for the same analyte list as the accompanying soil samples and the trip blank sample was submitted for laboratory analysis for VOCs. Both blanks had low level detections of toluene, but were so low that they could not be accurately quantified and were flagged as estimates by the laboratory.

Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 2 through 8. Figure 5 shows the location of soil samples collected in this investigation. Laboratories and analytical methods are described in Section 4.3.4. Additional soil samples were taken as part of the tank closure and related remediation (in-situ treatment and excavation) from 2008 to 2010, but were not pertinent to this RI as this soil was subsequently remediated. Boring logs are included in Appendix B.

4.3.2 Groundwater Sampling

Twenty groundwater samples were collected for chemical analysis during this RI: five from temporary wells installed in October 2007 and fifteen from four permanent monitoring wells between January 2008 and October 2013.

Four QA/QC samples were collected and analyzed at an ELAP-certified laboratory. QA/QC sampling consisted of two aqueous field blank samples and two aqueous trip blank samples submitted in January 2008 and October 2013. The field blanks were analyzed for the same analyte list as the accompanying groundwater samples and the trip blank samples were submitted for laboratory analysis for VOCs. No detections were noted in any of the QA/QC samples.

Groundwater sample collection data is reported in Tables 9 through 14. Sampling logs with information on purging and sampling of groundwater monitor wells are included in Appendix C. Figure 5 shows the groundwater sample locations. Laboratories and analytical methods are described in Section 4.3.4.

4.3.3 Soil Vapor Sampling

Seven soil vapor probes were installed and seven soil vapor samples were collected for chemical analysis during this RI on May 5, 2014. Soil vapor samples were collected from approximately 0.5 to 1 foot below grade.

Soil vapor sampling points were installed using a direct push Geoprobe® system by advancing a 0.75-inch diameter hollow probe rod fitted with an expendable 6-inch long stainless steel screen drive point to screen just below the asphalt/concrete slab. The hollow probe rod was then removed and the boring backfilled with clean silica sand around the screen. Hydrated bentonite was used to seal up to the ground surface.

Prior to collection, each sampling point was purged of one implant volume at a flow rate of approximately 0.2 liters per minute. During purging, an inverted five-gallon bucket was placed over each sampling point and helium gas was introduced through a small hole in the bucket to saturate the atmosphere around the sample port with helium gas. Purged vapors were collected in a Tedlar bag and field-screened for organic vapors using a PID. The purged air was also monitored used a portable helium detector to check for short-circuiting of ambient air into the vapor sampling point. All soil vapor points passed the seal integrity tests with helium readings being measured as not detected (ND). Detections with the PID were noted at each of the sampling locations, ranging from 1.0 parts per million (ppm) to 11.2 ppm.

After purging, each probe was connected via Teflon-lined polyethlylene tubing to a laboratory-supplied 2.7 liter SUMMA canister equipped with flow regulator set to collect a sample over a two-hour sampling period. One ambient air sample was collected at an outside portion of the Site in a 2.7 liter SUMMA canister for an approximately 2-hour sampling period conducted concurrently with the soil vapor samples to establish background conditions. Immediately after opening the flow control valve, the initial SUMMA canister vacuum (inches of mercury) was noted. After two hours, the flow controller valve was closed, the final vacuum noted, and the canister placed in a shipping carton for delivery to the laboratory.

One QA/QC sample was collected and analyzed at an ELAP-certified laboratory. QA/QC sampling consisted of an ambient air SUMMA canister submitted with the collected soil vapor samples. Low level VOC detections were noted in the ambient air samples. These VOCs were detected at concentrations below indoor air background concentrations and are not likely to be related to Site contamination.

Soil vapor sampling locations are shown on Figure 5. Soil vapor sample collection data is reported in Table 15. Soil vapor sampling logs are included in Appendix D. Laboratories and analytical methods are described in Section 4.3.4. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

4.3.4 Chemical Analysis

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

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Kate Brunner of AKRF
Chemical Analytical Laboratory	Chemical analytical laboratories used in the RI were Alpha Analytical Laboratories and Test America Laboratories, Inc., both NYS ELAP certified laboratories.
Chemical Analytical Methods	Soil analytical methods: •TAL Metals by EPA Method 6010/7470 ; • October 2007 Sampling •VOCs by EPA Method 8260 • TCL List (October 2007 Sampling) • NYSDEC STARS List (January 2008 Sampling) • NYSDEC CP-51 List (August 2013 Sampling) •SVOCs by EPA Method 8270; • TCL List (October 2007 Sampling) • NYSDEC STARS List (January 2008 Sampling) • NYSDEC CP-51 List (August 2013 Sampling) •Pesticides by EPA Method 8081; • October 2007 Sampling •PCBs by EPA Method 8082; • October 2007 Sampling Groundwater analytical methods: •TAL Metals by EPA Method 6010/7470 ; • October 2007 Sampling •VOCs by EPA Method 8260; • TCL List (October 2007 and October 2013 Sampling) • NYSDEC STARS List (January 2008, April 2009, and November 2009 Sampling) •SVOCs by EPA Method 8270; • TCL List (October 2007 and October 2013 Sampling) • NYSDEC STARS List (January 2008, April 2009, and November 2009 Sampling) •Pesticides by EPA Method 8081; • October 2007 Sampling •PCBs by EPA Method 8082; • October 2007 Sampling Soil vapor analytical methods: •VOCs by TO-15 VOC parameters.

4.3.5 Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 8, Tables 9 through 14, and Table 15, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix E.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

5.1.1 Topography

The topography of the Site varies from elevation of approximately 12.5 feet on the western side to 25.5 feet on the eastern side (elevations are in reference to the NAVD88 Datum, which is 1.65 feet above Borough of Manhattan Highway Datum).

5.1.2 Stratigraphy

Based on AKRF soil borings, the stratigraphy of the Site, from the surface down, consists of fill, varying from 5 to 20 feet below grade, underlain by 10 to 35 feet of sandy soil with varying amounts of silt, clay and gravel, underlain by bedrock. Multiple refusals were encountered in direct push soil borings at depths ranging from 4 to 24 feet below grade. Bedrock is expected to be present between 10 feet below sidewalk grade on the southeastern portion of the Site, sloping down to the northwest to a depth of about 70 feet below sidewalk grade. A more detailed evaluation of Site stratigraphy was included in the February 2014 *Report of Geotechnical Investigation* prepared by RA Consultants LLC, provided under separate cover.

5.1.3 Hydrogeology

Across the Site, depth to groundwater ranges from about 10 to 20 feet below sidewalk grade. The depth to groundwater in permanent monitoring wells on the eastern side of the Site was observed at approximately 5 to 6 feet below the basement level and 10 to 18 feet below street level. A table of water level data for all permanent monitoring wells is included in Table 1. A map of groundwater level elevations with groundwater contours and inferred flow lines is provided as Figure 6.

Groundwater flow is expected to be from east to west; however actual groundwater flow at the Site may be affected by many factors, including geology, past/current pumping of groundwater in the vicinity, past filling activities, subsurface openings or obstructions such as basements, underground parking garages, or underground utilities.

5.2 Soil Chemistry

Forty-three soil samples were collected for laboratory analysis; thirty-nine from borings B-1 through B-24 and B-101 through B-104 and four post-excavation endpoint soil samples from each sidewall of the area of spill remediation. Samples from borings B-1 to B-24 were analyzed for TCL List VOCs and SVOCs, TAL Metals, and Pesticides and PCBs. Samples from borings B-101 through B-104 were analyzed for NYSDEC STARS List VOCs and SVOCs. Endpoint samples were analyzed for CP-51 List VOCs and SVOCs.

Soil sample analytical results were compared to the NYSDEC Unrestricted Use Soil Cleanup Objectives (USCOs) and the NYSDEC Restricted Residential Use Soil Cleanup Objectives (RRSCOs) listed in 6 NYCRR Subpart 375. It should be noted that the SCOs were developed assuming long-term exposure to surficial soils: a scenario which would not occur with the proposed project.

<u>Volatile Organic Compounds in Soil</u>

A review of the analytical results indicates that VOCs were detected in all of the 43 samples. Two VOCs (acetone and methylene chloride) were detected in the laboratory blank; when these two analytes were omitted (i.e., where B qualifiers were used by the laboratory), then VOCs were

detected in only 22 of the 43 soil samples. Acetone was identified in ten soil samples above the USCO, but was also identified in the laboratory blank. The elevated acetone and methylene chloride are attributed to laboratory contamination and are not indicative of Site contamination

Chlorinated VOCs were below the USCOs in all 43 soil samples. Tetrachloroethene (PCE) was detected in seven of 35 soil samples, but was reported well below USCO (maximum of 8.9 ppb). Trichloroethene (TCE), 1,1,1-trichloroethane (TCA), and carbon tetrachloride were not detected in soil samples collected. Other chlorinated compounds were either not detected or detected at trace levels well below USCOs.

Seven VOCs were detected in four of 43 soil samples at concentrations exceeding USCOs, and only one VOC was detected in one of the 43 soil samples at a concentration exceeding the RRSCO, as follows:

- 1,2,4-trimethylbenzene was detected in one of eight soil samples above the RRSCO (sample EP-SW-SOUTH (7.5')), at a concentration of 79,000 parts per billion (ppb). 1,2,4-trimethylbenzene was also detected above the USCO in an additional 2 of 8 samples (EP-SW-NORTH (7.5) and EP-SW-EAST (7.5)).
- 1,3,5-trimethylbenzene was detected in one of eight soil samples above the USCO (sample EP-SW-SOUTH(7.5')), at a concentration of 24,000 ppb.
- Xylenes were detected in three of 43 soil samples above the USCOs. Total xylene was detected in sample B-11 (4-6) at a concentration of 9,400 ppb. M/p-xylene was detected in samples EP-SW-EAST(7.5') and EP-SW-SOUTH(7.5') at a maximum concentration of 21,000 ppb. O-xylene was also detected in EP-SW-SOUTH(7.5') at a concentration of 2,000 ppb.
- Ethylbenzene was detected above the USCO in two of 43 soil samples (EP-SW-EAST(7.5') and EP-SW-SOUTH (7.5)) with a maximum concentration of 9,100 ppb.
- N-propylbenzene was detected above the USCO in one of eight soil samples (EP-SW-EAST(7.5)) at a concentration of 6,000 ppb.
- Benzene was detected above the USCO in one of 43 soil samples (EP-SW-SOUTH(7.5)) at a estimated concentration of 130 ppb.
- N-butylbenzene was detected above the USCOs in one of eight soil samples (EP-SW-SOUTH(7.5')) at a concentration of 14,000 ppb.

Additional VOCs, including petroleum related compounds, methyl ethyl ketone, and carbon disulfide, were detected, but well below their respective USCOs.

Semi-Volatile Organic Compounds in Soil

A review of the analytical results indicates that SVOCs were detected in 41 of the 43 soil samples. Eight SVOCs were detected in 17 of 43 soil samples at concentrations exceeding NYSDEC USCOs, and seven SVOCs were detected in 14 of 43 soil samples at concentrations exceeding NYSDEC RRSCOs, as follows:

- Napthalene was detected above the USCO in two of 43 soil samples (B-11(4-6) and EP-SW-SOUTH(7.5')) with a maximum concentration of 35,000 ppb.
- The remaining detections of SVOCs detected above their respective RRSCO included benzo(a)pyrene (maximum of 15,000 ppb), benzo(a)anthracene (maximum of 19,000 ppb), benzo(b)fluoranthene (maximum of 16,000 ppb), benzo(k)fluoranthene (maximum of 6,700 ppb), chrysene (maximum of 19,000 ppb), and indeno(1,2,3-cd)pyrene (maximum of 12,000 ppb). These compounds are polycyclic aromatic hydrocarbons (PAHs) which are typical of urban fill material.

Metals in Soil

A review of the analytical results indicates that metals were detected in all 35 of the 35 soil samples. Eleven metals were detected in 34 of 35 soil samples at concentrations exceeding USCOs, and seven metals were detected in 19 of 35 soil samples at concentrations exceeding RRSCOs, as follows:

- Lead exceeded the RRSCO in 13 of 35 soil samples (B-2(4-6), B-3(3-5), B-4(6-7), B-5(5-6), B-6(1-2), B-6(5-6), B-7(1-2), B-7(5-6), B-13(2-3), B-15(12-16), B-16(2-4), B-18(1-2), B-24(4-5)). Of these 13 samples, four were detected at a concentration above 1,000 ppm, with a maximum lead concentration of 11,800 ppm. One exceedance was observed between 12 and 16 feet below sampling grade; all others were observed between 1 and 7 feet below grade. 15 additional soil samples had lead concentrations exceeding the USCO.
- Mercury exceeded the RRSCO in 14 of 35 soil samples (B-1(1-3), B-3(3-5), B-4(1-2), B-5(5-6), B-6(1-2), B-6(5-6), B-7(1-2), B-8(1-2), B-8(5-6), B-9(1-2), B-15(12-16), B-18(1-2), B-21(2-3), B-24(4-5)). Of these 14 samples, six were detected at a concentration above 2.0 ppm, with a maximum mercury concentration of 54.2 ppm. One exceedance was observed between 12 and 16 feet below sampling grade; all others were observed between 1 and 6 feet below grade. 15 additional soil samples had mercury concentrations exceeding the USCO.
- Arsenic exceeded the RRSCO in four of 35 soil samples (B-2(4-6), B-3(3-5), B-6(5-6), and B-12(2-3)) with a maximum arsenic concentration of 41.5 ppm. One additional soil sample had an arsenic concentration exceeding the USCO.
- Barium exceeded the RRSCO in three of 35 soil samples (B-5(5-6), B-13(2-3), and B-15(3-4)) with a maximum barium concentration of 3,020 ppm. One additional soil sample had a barium concentration exceeding the USCO.
- Cadmium exceeded the RRSCO in one of 35 soil samples, B-13(2-3), with a concentration of 18.5 ppm. No other cadmium concentrations above the USCO were observed.
- Copper exceeded the RRSCO in one of 35 soil samples, B-13(2-3), with a concentration of 1,550 ppm. 11 additional soil samples had copper concentrations exceeding the USCO.
- Zinc exceeded the RRSCO in one of 35 soil samples, B-13(2-3), with a concentration of 14,000 ppm. 21 additional soil samples had zinc concentrations exceeding the USCO.
- Silver, chromium, nickel, and selenium exceeded USCOs but did not exceed RRSCOs.

Polychlorinated Biphenyls (PCBs) and Pesticides in Soil

A review of the analytical results indicates that PCBs were detected in 12 of 35 soil samples. PCBs were detected in four of 35 soil samples at concentrations exceeding USCOs, but well below RRSCOs, with a maximum total concentration of 460 ppb.

Pesticides were detected in 31 of 35 soil samples, with no samples exceeding RRSCOs. Four pesticides were detected in seven samples at concentrations exceeding USCOs, as follows:

- Dieldrin exceeded the USCO in two of 35 soil samples (B-1(2-3) and B-11(4-6)), with a maximum estimated concentration of 8.6 ppb.
- 4,4'-DDD exceeded the USCO in two of 35 soil samples (B-11(4-6) and B-15(3-4)), with a maximum concentration of 23 ppb.
- 4,4'DDE exceeded the USCO in three of 35 soil samples (B-10(4-5), B-11(4-6), and B-15(3-4)), with a maximum concentration of 6.6 ppb.
- 4,4' DDT exceeded the USCO in five of 35 soil samples (B-6(1-2), B-10(6-7), B-11(4-6), B-15(3-4), and B-22(8-9)), with a maximum concentration of 21 ppb.

Conclusions

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 2 through 8. A spider map depicting exceedances of the RRSCOs in soil is provided as Figure 7.

5.3 Groundwater Chemistry

Twenty groundwater samples were collected for laboratory analysis from temporary monitoring wells B/MW-2, B/MW-3, B/MW-15, B/MW-22, and B/MW-24 and from permanent groundwater monitoring wells MW-1 through MW-4. The sample from monitoring well MW-4 was only analyzed for VOCs in January 2008 due to poor groundwater recharge rate, and was not sampled in October 2013 because the well was dry.

Groundwater samples from the temporary monitoring wells were analyzed for TAL VOCs and SVOCs, TAL Metals (both filtered and unfiltered), Pesticides and PCBs. Groundwater samples from monitoring wells from 2008-2009 were analyzed for NYSDEC STARS List VOCs and SVOCs. Groundwater samples from monitoring wells in 2013 were analyzed for TCL VOCs and SVOCs.

Groundwater sample analytical results were compared to the NYSDEC Class GA Ambient Water Quality Standards (drinking water standards) listed in 6 NYCRR Part 703.5 as a reference, although groundwater is not used as a potable source in Manhattan.

Volatile Organic Compounds in Groundwater

A review of the analytical results indicates that VOCs were detected in 12 of 20 groundwater samples. The chlorinated VOCs PCE, TCE, TCA, and carbon tetrachloride were not detected in any of the groundwater samples collected. Nine VOCs were detected in four of 20 groundwater samples at concentrations exceeding their respective Class GA Standards, as follows:

- 1,2,4-Trimethylbenzene exceeded the Class GA Standard in one of 15 groundwater samples, MW-2(1/16/2008), at an estimated concentration of 7.4 ppb.
- Benzene exceeded the Class GA Standard in two of 20 groundwater samples (MW-2(1/16/2008) and MW-2(10/23/2013)), with a maximum estimated concentration of 12 ppb.
- Isopropylbenzene exceeded the Class GA Standard in one of 15 groundwater samples, MW-2(1/16/2008), at an estimated concentration of 8.7 ppb.
- M/p xylene exceeded the Class GA Standard in one of 20 groundwater samples, MW-2(1/16/2008), at an estimated concentration of 14 ppb.
- O-xylene exceeded the Class GA Standard in one of 20 groundwater samples, MW-2(1/16/2008) at an estimated concentration of 10 ppb
- Naphthalene exceeded the Class GA Standard in four of 15 groundwater samples (MW-2(1/16/2008), MW-2(4/29/2009), MW-2(11/12/2009), MW-2(10/23/2013), with a maximum concentration of 1,100 ppb.
- N-propylbenzene exceeded the Class GA Standard in one of 15 groundwater samples, MW-2(1/16/2008), at an estimated concentration of 16 ppb.
- Sec-butylbenzene exceeded the Class GA Standard in one of 15 groundwater samples, MW-2(1/16/2008) at an estimated concentration of 7.1 ppb.
- Toluene exceeded the Class GA Standard in one of 20 groundwater samples, MW-2(1/16/2008), at an estimated concentration of 14 ppb.

Semi-Volatile Organic Compounds in Groundwater

A review of the analytical results indicates that SVOCs were detected in 16 of 19 groundwater samples. Twelve SVOCs were detected in eight of 19 groundwater samples at concentrations exceeding their respective Class GA Standards, as follows:

- Acenaphthene exceeded the Class GA Standard in four of 19 groundwater samples (MW-2(1/16/2008), MW-2(4/29/2009), MW-2(11/12/2009), MW-2(10/23/2013)), with a maximum concentration of 110 ppb.
- Naphthalene exceeded the Class GA Standard in four of 19 groundwater samples (MW-2(1/16/2008), MW-2(4/29/2009), MW-2(11/12/2009), and MW-2(10/23/2013)), with a maximum concentration of 550 ppb.
- Fluorene exceeded the Class GA Standard in one of 19 groundwater samples, (MW-2(10/23/2013)), at a concentration of 57 ppb.
- Phenanthrene exceeded the Class GA Standard in one of 19 groundwater samples (MW-2(10/23/2013)), at a concentration of 61 ppb.
- Phenol exceeded the Class GA Standard in one of eight groundwater samples (B/MW-22) at an estimated concentration of 1.1 ppb.
- The remaining detections of SVOCs detected above their respective Class GA Standards included benzo(a)pyrene (maximum of 1.1 ppb) , benzo(a)anthracene (maximum of 3.3 ppb), benzo(b)fluoranthene (maximum of 1.2 ppb), benzo(k)fluoranthene (maximum of 0.63 ppb), chrysene (maximum of 2.7 ppb), indeno(1,2,3-cd)pyrene (maximum of 0.65 ppb), and bis(2-ethylhexyl)phthalate (maximum of 7.4 ppb). These SVOC detections are most likely attributable to suspended soil particles in the groundwater, since the above SVOCs were detected in the surrounding soil and are typical of urban fill.

Metals in Groundwater

A review of the analytical results indicates that metals were detected in all 5 of the filtered groundwater samples. The following four metals were detected in the filtered groundwater samples at concentrations exceeding their respective Class GA Standards, as follows:

- Arsenic exceeded the Class GA Standard in one of 5 filtered groundwater samples (B/MW-22) at a concentration of 33 ppb.
- Manganese, sodium, and selenium also exceeded the Class GA Standards, but are natural earth metals and not indicative of Site contamination.

Polychlorinated Biphenyls (PCBs) and Pesticides in Groundwater

A review of the analytical results indicates that PCBs were detected in two of five groundwater samples. No concentrations of PCBs were detected above the Class GA Standards.

Pesticides were detected in four of five groundwater samples. No concentrations of pesticides were detected above the Class GA Standards.

Conclusions

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Tables 9 through 14. A spider map depicting exceedences of applicable groundwater standards is shown in Figure 8.

5.4 Soil Vapor Chemistry

Seven soil vapor samples were collected for laboratory analysis from soil vapor points SV-1 to SV-7. Concentrations of VOCs detected in the soil gas samples were compared to the NYSDOH 2006 Soil Vapor Intrusion Air Guideline Values (AGVs) and the NYSDOH 2006 Final Guidance on Soil Vapor Intrusion Matrices. These values provide a means of comparison to background conditions. Note that the AGVs reflect indoor air conditions, therefore, the comparison assumes that any soil vapor detected would completely penetrate into the building, a condition that does not typically occur, nor would be present in the proposed new construction.

A review of the analytical results indicates that 28 VOCs were detected in all of the soil vapor samples. Solvent-related VOCs (including PCE, TCE, TCA, carbon tetrachloride, acetone, and chloroform) were detected at concentrations up to 1,850 micrograms per cubic meter ($\mu g/m^3$). This maximum detected concentration was acetone, which is a common laboratory contaminant which was also found in the ambient air sample and is not likely to be related to Site contamination. Other detected solvents included the following:

- PCE was detected in four of seven soil vapor samples (SV-1, SV-5, SV-6, SV-7) at concentrations of 18.3 $\mu g/m^3$, 26.6 $\mu g/m^3$, 30.5 $\mu g/m^3$, and 6.66 $\mu g/m^3$, respectively. Only soil vapor sample SV-6 had a PCE concentration slightly above the indoor air AGV of 30 $\mu g/m^3$.
- TCA was detected in SV-5 at 32.5 $\mu g/m^3$; carbon tetrachloride was detected in SV-5 at 1.69 $\mu g/m^3$.
- TCE was detected in SV-4 at a concentration of 2.18 $\mu g/m^3$.
- Chloroform was detected in two of seven soil vapor samples (SV-1 and SV-5) with a maximum concentration of 4.23 $\mu g/m^3$.

None of the solvents detected were above the “mitigate” or “monitor” recommendations for sub-slab vapor in the Final Guidance on Soil Vapor Intrusion Matrices.

VOCs associated with petroleum [including benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), 1,2,4-trimethylbenzene, cyclohexane, heptane, hexane, and 2,2,4-trimethylpentane] were detected at concentrations up to 193 $\mu g/m^3$ (SV-1).

Nine VOCs (both solvent- and petroleum-related compounds) were also detected in the ambient air sample at varying concentrations, with the maximum detection in the ambient air sample ethanol at 11.8 $\mu g/m^3$.

Conclusions

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 15. A spider map depicting elevated soil vapor concentrations (over 20 $\mu g/m^3$) is shown in Figure 9.

5.5 Potential Future Soil Disposal

Based on an evaluation of the data and information from the RIR, disposal of hazardous waste is possible for soil excavated from this Site. Prior to excavation, additional soil sampling will be performed for waste characterization purposes in accordance with disposal facility requirements.

5.6 Impediments to Remedial Action

The Site is currently nearly entirely covered by buildings; however, demolition of the buildings would be completed prior to redevelopment. Prior to soil disturbance or redevelopment of the Site, remedial activities corresponding to the work are recommended. There are no known

significant impediments to remedial action at this property. Groundwater and bedrock will inhibit depth of excavation and the presence of adjacent structures (sidewalls, roads, buildings, etc.) will inhibit lateral excavation.

FIGURES

SOURCE
USGS 7.5 Minute Topographic Map
Jersey City Quad 2011

0 1,000 2,000 Feet

606 West 57th Street
New York, New York

SITE LOCATION

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE
6/13/2014

PROJECT No.
11402

FIGURE
1

© 2013 AKRF, Inc. Environmental Consultants O:\Projects\11402 - WEST 57TH STREET\hazmat Fig 1 site loc map.mxd

Aerial Date: World Imagery Dec 2012

Legend

Project Site

0 50 100 200
Feet

606 West 57th Street
New York, New York

SITE MAP

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

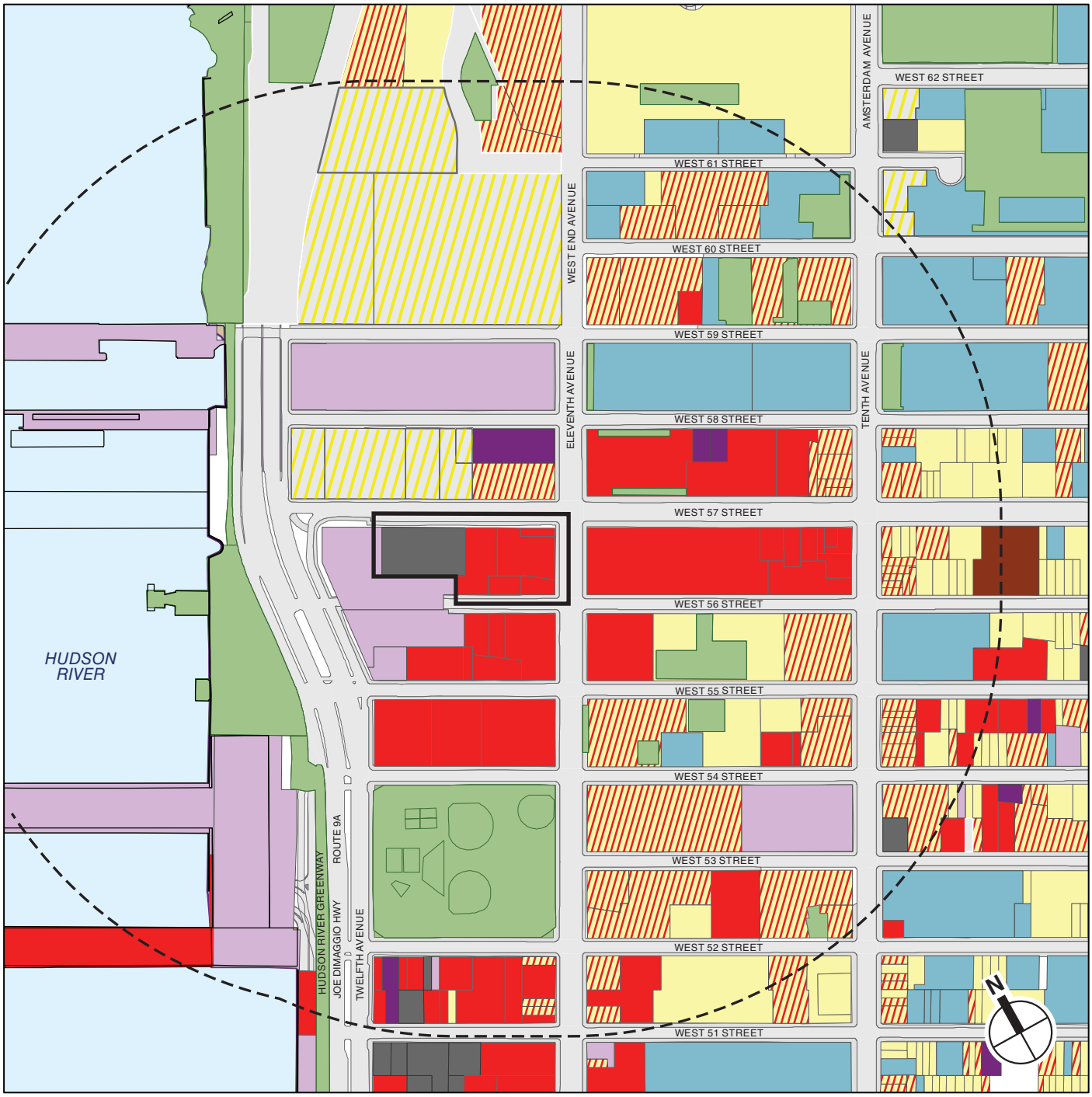
DATE
6/13/2014

PROJECT No.
11402

FIGURE
2

© 2014 AKRF, Inc. Environmental Consultants O:\Projects\11402 - WEST 57TH STREET\11402 Fig 2 Site Map.mxd

2.7.14



Rezoning Area

Study Area Boundary (1/4-Mile Perimeter)

Residential

Residential with Commercial Below

Hotels

Commercial and Office Buildings

Industrial and Manufacturing

Transportation and Utility

Public Facilities and Institutions

Open Space and Outdoor Recreation

Parking Facilities

Vacant Land

Vacant Building

Under Construction

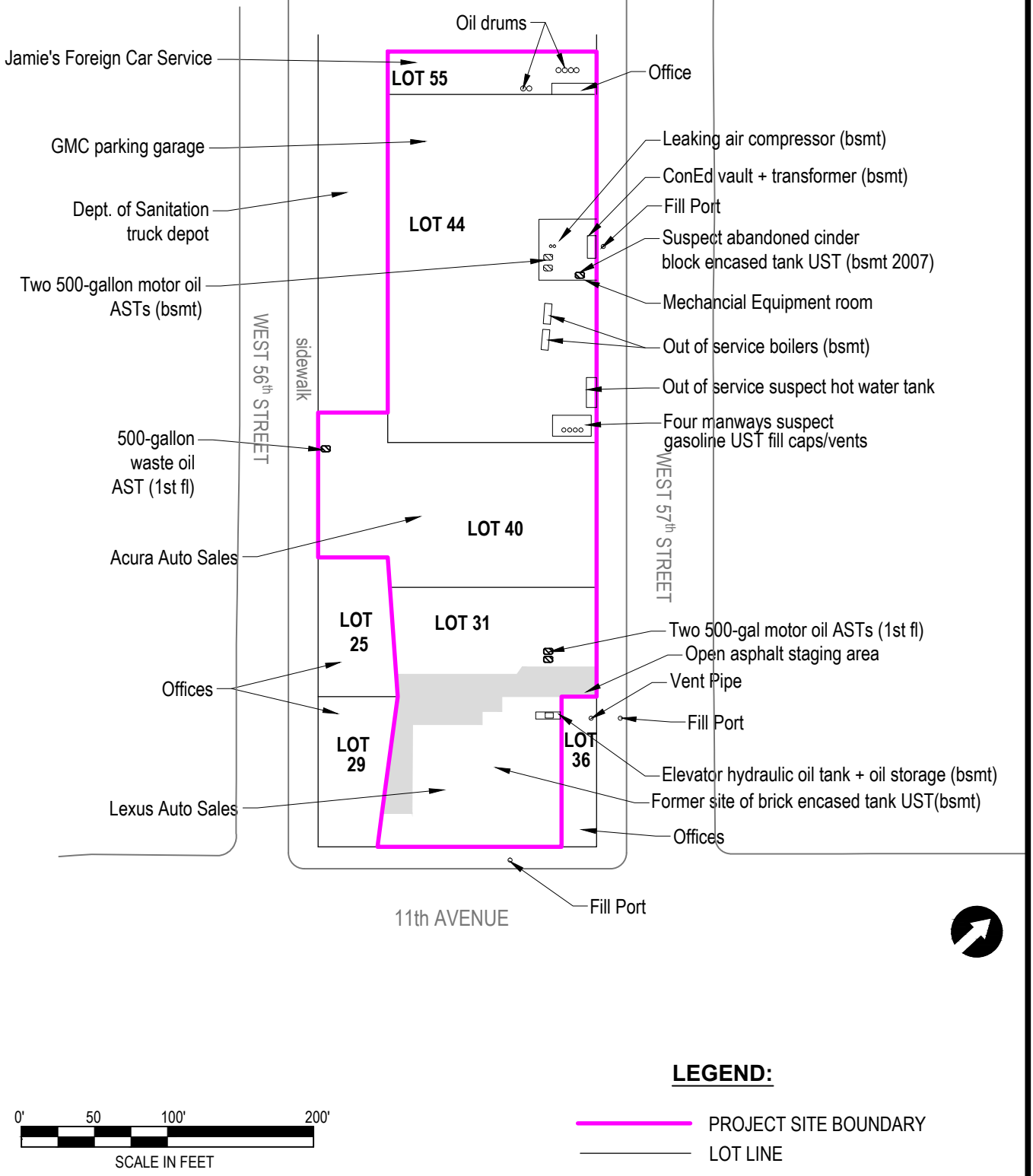
0 500 FEET

SCALE

Existing Land Use

Figure 3

606 WEST 57TH STREET



606 West 57th Street

New York, New York

AREAS OF CONCERN

AKRF

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440 Park Avenue South, New York, N.Y. 10016

DATE	6.12.2014
PROJECT No.	11402
SCALE	as shown
FIGURE	4

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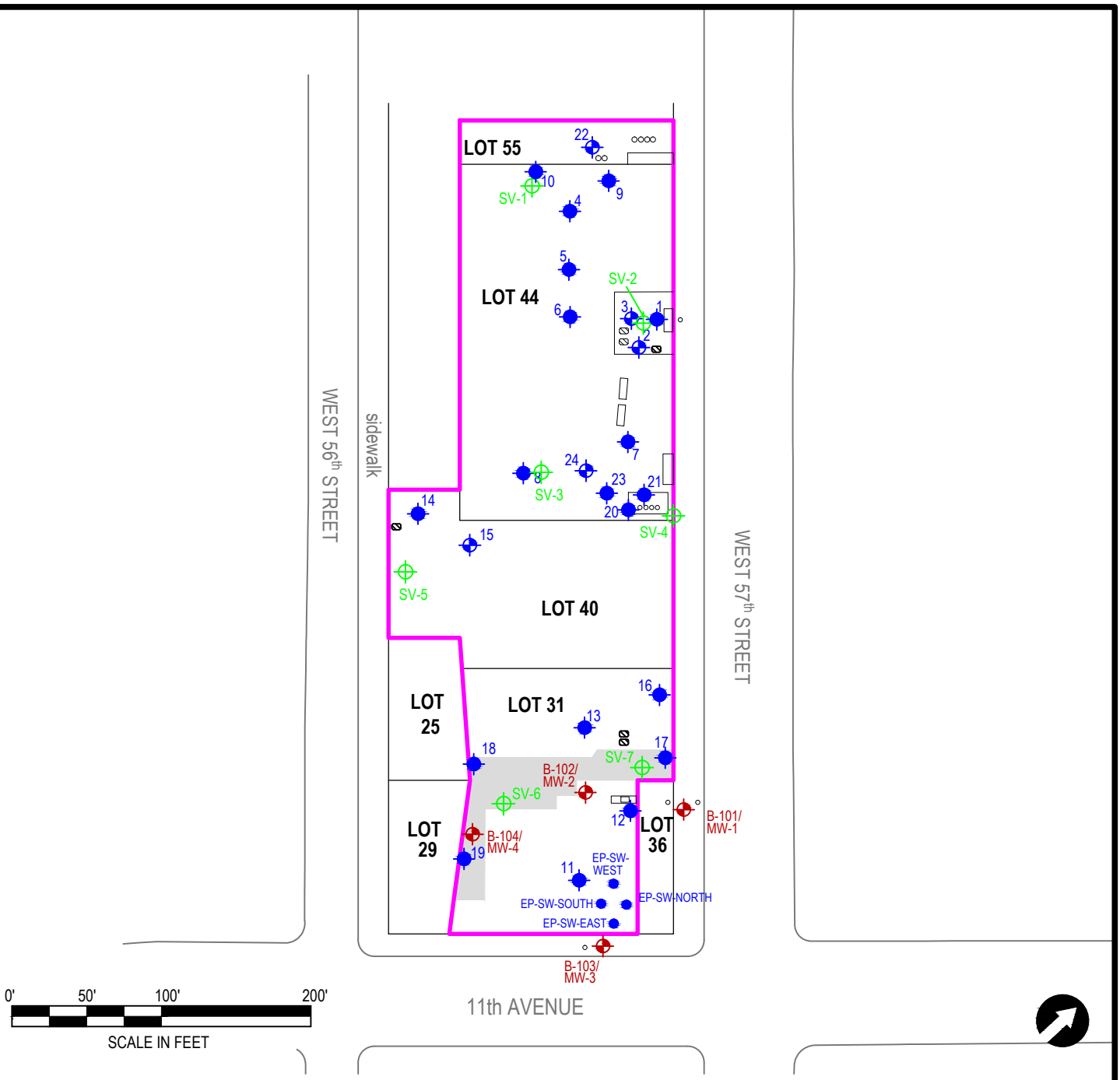

LEGEND:

- PROJECT SITE BOUNDARY
- LOT LINE
- SV-4 SUB SLAB SOIL VAPOR SAMPLE LOCATION (2014 AKRF)
- B-101/ MW-1 BORING/GROUNDWATER MONITORING WELL(2008-2013 AKRF)
- 14 SOIL BORING (2007 AKRF)
- 15 SOIL BORING & TEMPORARY MONITORING WELL (2007 AKRF)
- EP-SW-NORTH ENDPOINT SAMPLE LOCATION (2013 AKRF)

606 West 57th Street

New York, New York

SAMPLE LOCATION PLAN

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DATE	6.12.2014
PROJECT No.	11402
SCALE	as shown
FIGURE	5

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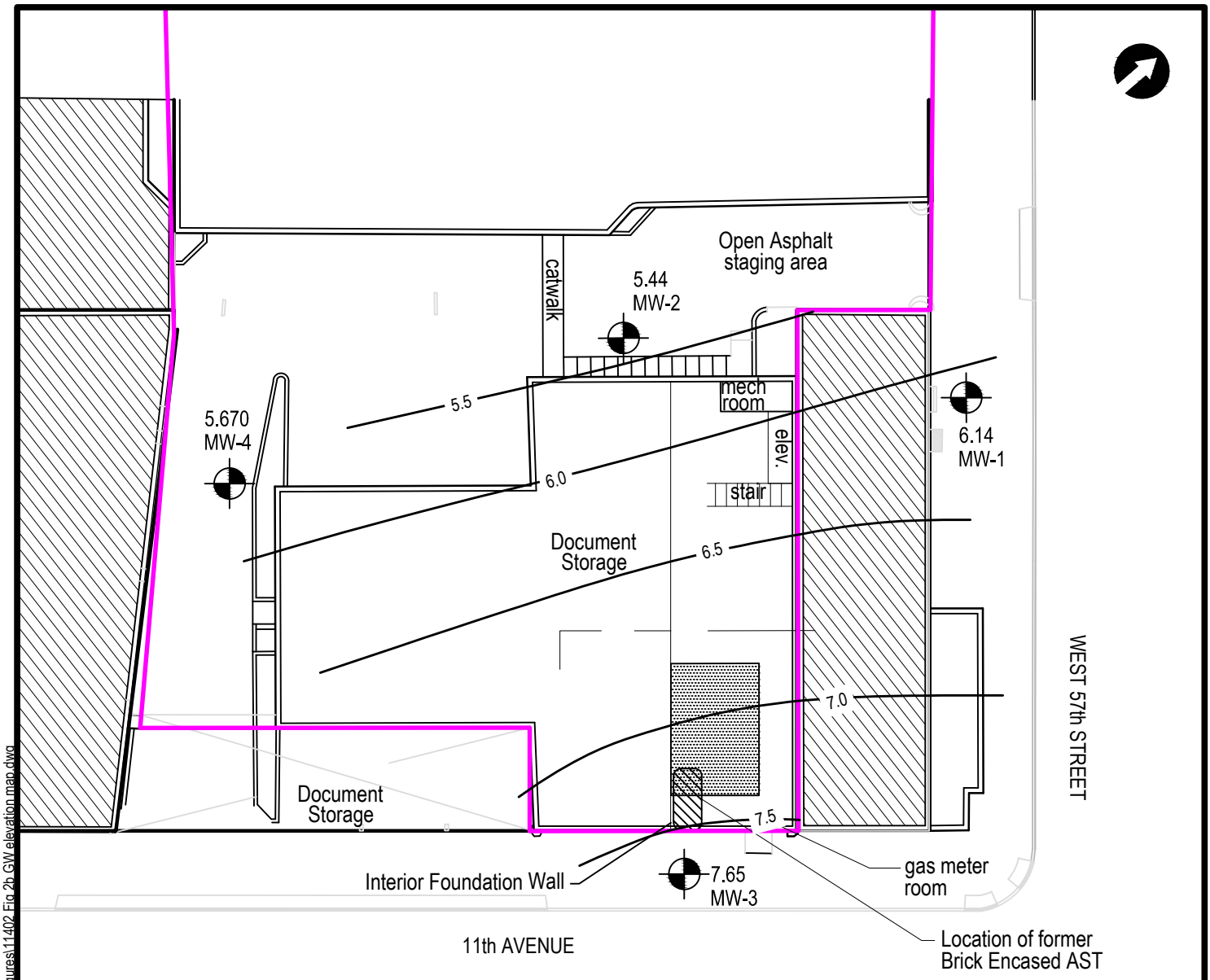

LEGEND:

EXCAVATION AREA (2013)

AST FORMER ABOVEGROUND STORAGE TANK

SITE BOUNDARY

7.65 MW-3 MONITORING WELL WATER TABLE ELEVATION IN FEET MEASURED 10/23/13

6 ELEVATION CONTOUR IN FEET

0' 15' 30'

SCALE IN FEET

606 WEST 57th STREET

NEW YORK, NEW YORK

GROUNDWATER ELEVATION (11/12/2009)

AKRF

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440 Park Avenue South, New York, N.Y. 10016

DATE **6.19.2014**

PROJECT No. **11402**

SCALE **as shown**

FIGURE **6**

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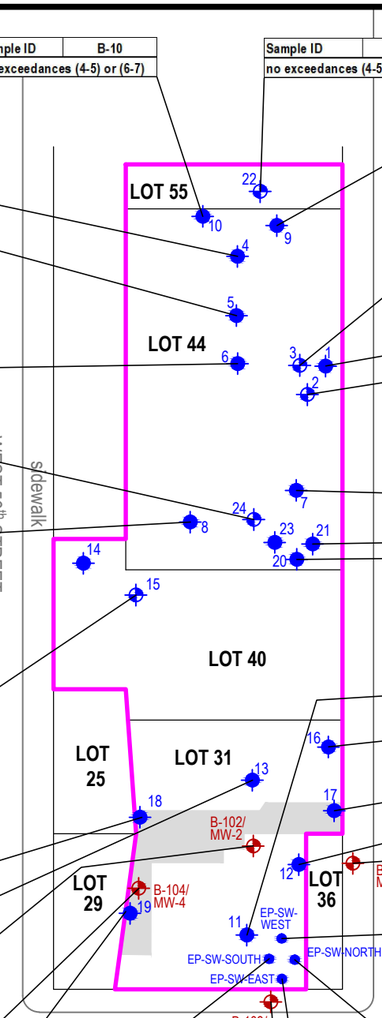

Sample ID	B-6(1-2)	B-6(5-6)
Date Sampled	10/1/2007	10/1/2007
SVOCs - µg/kg		
Benzo[a]anthracene	7,400	1,300
Benzo[a]pyrene	5,200	870
Benzo[b]fluoranthene	6,000	1,100
Chrysene	6,700	1,200
Dibenz(a,h)anthracene	940	460
Indeno[1,2,3-cd]pyrene	4,000	750
Metals - mg/kg		
Arsenic	11.8	26.1
Lead	3,990	1,850
Mercury	4.3	4

Sample ID	B-4 (1-2)		B-4(6-7)
Date Sampled	10/1/2007		10/1/2007
SVOCs - µg/kg			
Benzo[b]fluoranthene	520	J	1,100
Metals - mg/kg			
Mercury	2		0.46
Lead	374		760

Sample ID	B-5(1-2)	B-5(5-6)
Date Sampled	10/1/2007	10/1/2007
Metals - mg/kg		
Barium	72.6	610
Lead	23.3	1670
Mercury	0.12	8.9

Sample ID	B-24(4-5)
Date Sampled	10/5/2007
Metals - mg/kg	
Lead	404
Mercury	54.2

Sample ID	B-15(3-4)		B-15(12-16)	
Date Sampled	10/3/2007		10/3/2007	
SVOCs - µg/kg				
Benzo[a]anthracene	19,000		2,200	
Benzo[a]pyrene	15,000		1,600	
Benzo[b]fluoranthene	16,000		1,800	
Benzo[k]fluoranthene	6,700	J	690	J
Chrysene	19,000		2,000	
Dibenz(a,h)anthracene	2,700	J	320	J
Indeno[1,2,3-cd]pyrene	12,000		1,300	
Metals - mg/kg				
Barium	122		419	
Lead	309		11,800	
Mercury	0.79		0.93	

Sample ID	B-8(1-2)		B-8(5-6)	
Date Sampled	10/1/2007		10/1/2007	
SVOCs - µg/kg				
Benzo[a]anthracene	14,000		89	J
Benzo[a]pyrene	11,000		88	J
Benzo[b]fluoranthene	12,000		110	J
Benzo[k]fluoranthene	4,500		U	
Chrysene	14,000		84	J
Dibenz(a,h)anthracene	1,900	J	270	J
Indeno[1,2,3-cd]pyrene	6,900		97	J
Metals - mg/kg				
Mercury	4		1	

Sample ID	B-18(1-2)	B-18(16-17)
Date Sampled	10/2/2007	10/2/2007
SVOCs - µg/kg		
Benzo[a]anthracene	1,600	U
Benzo[a]pyrene	1,700	U
Benzo[b]fluoranthene	2,300	U
Dibenz(a,h)anthracene	350	U
Indeno[1,2,3-cd]pyrene	1,700	
Metals - mg/kg		
Lead	645	34.9
Mercury	1.2	0.35

Sample ID	B-13(2-3)
Date Sampled	10/3/2007
SVOCs - µg/kg	
Benzo[b]fluoranthene	1,600
Indeno[1,2,3-cd]pyrene	570
Metals - mg/kg	
Arsenic	38.9
Barium	3,020
Cadmium	18.5
Copper	1,550
Lead	4,320
Zinc	14,000

Sample ID	B-102(17-18)
Date Sampled	1/7/2008
SVOCs - µg/kg	
Indeno[1,2,3-cd]pyrene	580

Sample ID	B-104(16-18)	
Date Sampled	1/8/2008	
SVOCs - µg/kg		
Benzo[a]anthracene	2100	
Benzo[b]fluoranthene	2400	
Benzo[a]pyrene	2100	
Indeno[1,2,3-cd]pyrene	1700	
Dibenz(a,h)anthracene	340	J,M

Sample ID	B-10
no exceedances (4-5) or (6-7)	

Sample ID	B-22
no exceedances (4-5) or (8-9)	

Sample ID	B-3 (3-5)
Date Sampled	10/3/2007
Metals - mg/kg	
Arsenic	41.5
Lead	411
Mercury	1.2

Sample ID	B-9(1-2)		B-9(6-7)	
Date Sampled	10/1/2007		10/5/2007	
SVOCs - µg/kg				
Benzo[a]anthracene	5,200		840	
Benzo[a]pyrene	4,100		740	
Benzo[b]fluoranthene	4,600		950	
Chrysene	4,900		850	
Dibenz(a,h)anthracene	680	J	330	J
Indeno[1,2,3-cd]pyrene	2,800		600	
Metals - mg/kg				
Mercury	1.9		0.47	

Sample ID	B-1 (1-3)
Date Sampled	10/3/2007
SVOCs - µg/kg	
Benzo[a]anthracene	1,300
Indeno[1,2,3-cd]pyrene	930
Metals - mg/kg	
Mercury	1.3

Sample ID	B-2 (4-6)
Date Sampled	10/3/2007
Metals - mg/kg	
Arsenic	37.6
Lead	421

Sample ID	B-7(1-2)	B-7(5-6)
Date Sampled	10/5/2007	10/5/2007
Metals - mg/kg		
Lead	603	503
Mercury	16.5	0.81

Sample ID	B-20(1-3)
Date Sampled	10/5/2007
SVOCs - µg/kg	
Indeno[1,2,3-cd]pyrene	550

Sample ID	B-21(2-3)
Date Sampled	10/5/2007
Metals - mg/kg	
Mercury	1.5

Sample ID	B-11
no exceedances (1-3) or (4-6)	

Sample ID	B-16(2-4)
Date Sampled	10/5/2007
SVOCs - µg/kg	
Indeno[1,2,3-cd]pyrene	570
Metals - mg/kg	
Lead	408

Sample ID	B-17(2-3)
Date Sampled	10/1/2007
SVOCs - µg/kg	
Benzo[a]anthracene	2,200
Benzo[a]pyrene	2,100
Benzo[b]fluoranthene	2,500
Dibenz(a,h)anthracene	400
Indeno[1,2,3-cd]pyrene	2,100

Sample ID	B-12
no exceedances (1-3) or (10-12)	

Sample ID	B-101(15-18)
no exceedances	

Sample ID	EP-SW-WEST (7.5')
no exceedances	

Sample ID	EP-SW-NORTH (7.5')
no exceedances	

Sample ID	B-103(20-22)
no exceedances	

Sample ID	EP-SW-SOUTH (7.5')
Date Sampled	8/14/2013
VOCs - µg/kg	
1,2,4-Trimethylbenzene	79,000

Sample ID	B-19
no exceedances (2-3) or (19-20)	

Sample ID	EP-SW-EAST (7.5')
no exceedances	

SOIL

Exceedences of Part 375 Restricted Residential are highlighted in gray shading.

Part 375 Soil
Cleanup Objectives:Soil Clean-up Objectives listed in NYSDEC (New York State Department of Environmental Conservation 6 NYCRR Part 375)

µg/kg:micrograms per kilogram = parts per billion (ppb)
mg/kg:micrograms per kilogram = parts per million (ppm)

U:The analyte was not detected at the indicated concentration
M: Manually integrated compound result
J: The concentration given is an estimated value

Borings B-14 and B-23 not sampled (no recovery)

0' 50 100' 200'
SCALE IN FEET

LEGEND:

- PROJECT SITE BOUNDARY
- LOT LINE
- 14 SOIL BORING (2007 AKRF)
- 15 SOIL BORING & TEMPORARY MONITORING WELL (2007 AKRF)
- B-101/ MW-1 BORING/GROUNDWATER MONITORING WELL(2008-2013 AKRF)
- EP-SW-NORTH ENDPOINT SAMPLE LOCATION (2013 AKRF)

Sample ID	B-21(2-3)
Date Sampled	10/5/2007
Metals - mg/kg	
Mercury	1.5

Analyte/ Compound in Soil

Sample ID number
Sample Date
Concentration in Soil

Borings Below Sidewalk Grade B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-101, B-102, B-103, B-104

Borings Below Basement Grade B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, B-11, B-12, B-24

AKRF Environmental Consultants
440 Park Avenue South, New York, NY 10016

606 West 57th Street
New York, New York

SOIL SAMPLE CONCENTRATIONS EXCEEDING RESTRICTED RESIDENTIAL SCOs

DATE
8.25.2014

PROJECT NO.
11402

SCALE
as shown

FIGURE
7

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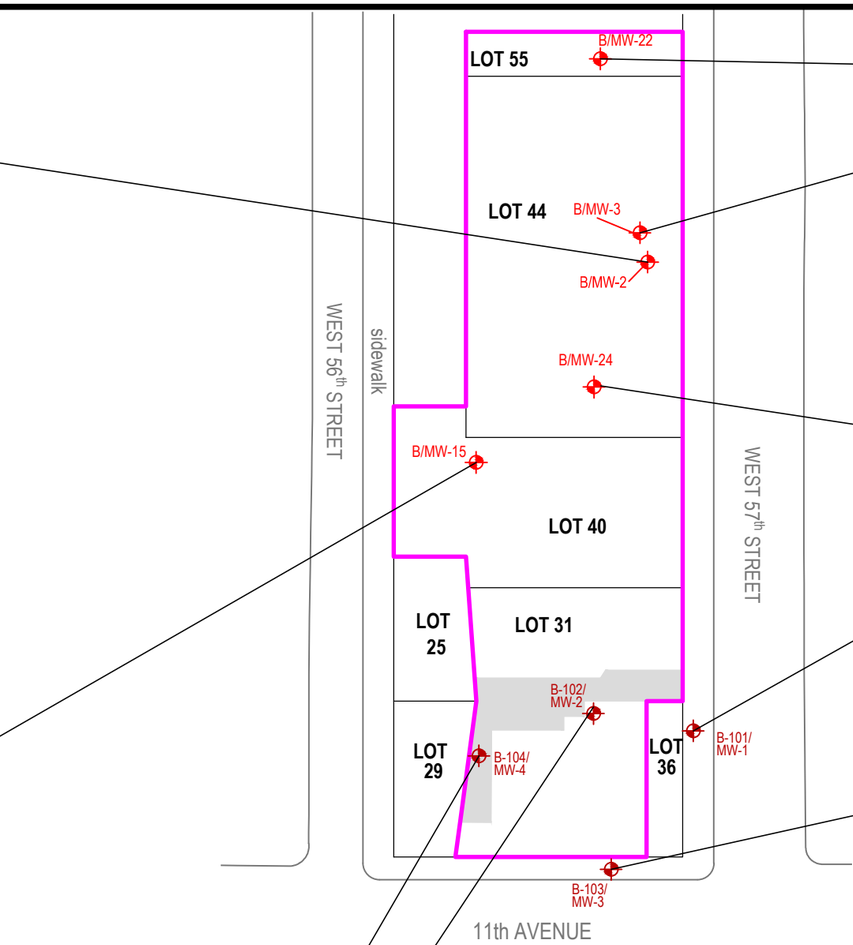

Sample ID	B/MW-2
Date Sampled	10/3/2007
SVOCs- µg/L	
Bis(2-ethylhexyl) phthalate	**7.4** (J)
Dissolved Metals - µg/L	
Sodium	**46,900**
Mercury	**0.11** (J)
Pesticides - µg/L	
Aldrin	**0.01** (J M)

Sample ID	B/MW-3
Date Sampled	10/3/2007
Dissolved Metals - µg/L	
Manganese	**300**
Sodium	**83,700**

Date Sampled	10/1/2007
SVOCs- µg/L	
Benzo[a]anthracene	**0.74** (J)
Benzo[a]pyrene	**0.55** (J)
Benzo[b]fluoranthene	**0.91** (J)
Chrysene	**0.71** (J)
Phenol	**1.1** (J)
Dissolved Metals - µg/L	
Arsenic	**33**
Sodium	**122,000**
Selenium	**13** (J)

Sample ID	B/MW-24
Date Sampled	10/5/2007
Dissolved Metals - µg/L	
Sodium	**65,400**

Sample ID	MW-1			
Date Sampled	1/16/2008	4/29/2009	11/12/2009	10/23/2013
SVOCs - µg/L				
Benzo[a]anthracene	U	U	**0.49** (J)	U
Chrysene	U	U	**0.47** (J)	U

Sample ID	B/MW-15
Date Sampled	10/3/2007
SVOCs - µg/L	
Benzo[a]anthracene	**1.3** (J)
Benzo[a]pyrene	**1.1** (J)
Benzo[b]fluoranthene	**1.2** (J)
Benzo[k]fluoranthene	**0.63** (J)
Chrysene	**1.2** (J)
Indeno[1,2,3-cd]pyrene	**0.65** (J)
Dissolved Metals - µg/L	
Manganese	**1,900**
Sodium	**115,000**
Mercury	**0.15** (J)
PCBs - µg/L	
Aroclor-1254	**0.19** (J M)

Sample ID	MW-3
no exceedances in 01/08, 04/09, 11/09, and 10/13	

Sample ID	MW-4
no exceedances in 01/08, 04/09 and 11/09	

Sample ID	MW-2			
Date Sampled	1/16/2008	4/29/2009	11/12/2009	10/23/2013
VOCs - µg/L				
1,2,4-Trimethylbenzene	**7.4** (J)	U	3 (J)	U
Benzene	**12** (J)	U	U	**1.6** (J)
Isopropylbenzene	**8.7** (J)	U	2.6 (J)	U
m&p-Xylene	**14** (J)	U	U	U
Naphthalene	**1100**	**530**	**220**	**300**
n-Propylbenzene	**16** (J)	U	2.7 (J)	U
o-Xylene	**10** (J)	U	2.4 (J)	U
sec-Butylbenzene	**7.1** (J)	U	2.5 (J)	U
Toluene	**14** (J)	U	U	U
SVOCs - µg/L				
Acenaphthene	**26** (J)	**28**	**28**	**110**
Benzo[a]anthracene	U	**0.75**	**0.48** (J)	**3.3** (J)
Benzo[a]pyrene	U	**0.31**	U	U
Benzo[b]fluoranthene	U	**0.42**	U	U
Benzo[k]fluoranthene	U	**0.16** (J)	U	U
Chrysene	U	**0.42**	**0.46** (J)	**2.7** (J)
Dibenzofuran	NA	NA	NA	24
Fluorene	30 (J)	23	17	**57**
Naphthalene	**550**	**340**	**160**	**330**
Phenanthrene	32 (J)	20	17	**61**

0' 50 100' 200'

SCALE IN FEET

GROUNDWATER
Only parameters with exceedances of NYSDEC Class GA Ambient Standards are shown. Concentrations greater than Class GA Standards are in Bold Font

NYSDEC Class GA Ambient Standard:
New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

(µg/L) - micrograms per Liter = parts per billion (ppb)

U:The analyte was not detected
J: The concentration given is an estimated value.

LEGEND:

- PROJECT SITE BOUNDARY
- LOT LINE
- B-101/ MW-1 — BORING/GROUNDWATER MONITORING WELL(2008-2013 AKRF)
- B/MW-15 — SOIL BORING & TEMPORARY MONITORING WELL (2007 AKRF)

Sample ID	MW-1			
Date Sampled	1/16/2008	4/29/2009	11/12/2009	10/23/2013
SVOCs - µg/L				
Benzo[a]anthracene	U	U	**0.49** (J)	U
Chrysene	U	U	**0.47** (J)	U

Compound in Groundwater

Sample ID number

Sample Date

AKRF Environmental Consultants
440 Park Avenue South, New York, NY 10016

606 West 57th Street
New York, New York

GROUNDWATER SAMPLE CONCENTRATIONS EXCEEDING CLASS GA STANDARDS

DATE
6.17.2014

PROJECT NO.
11402

SCALE
as shown

FIGURE
8

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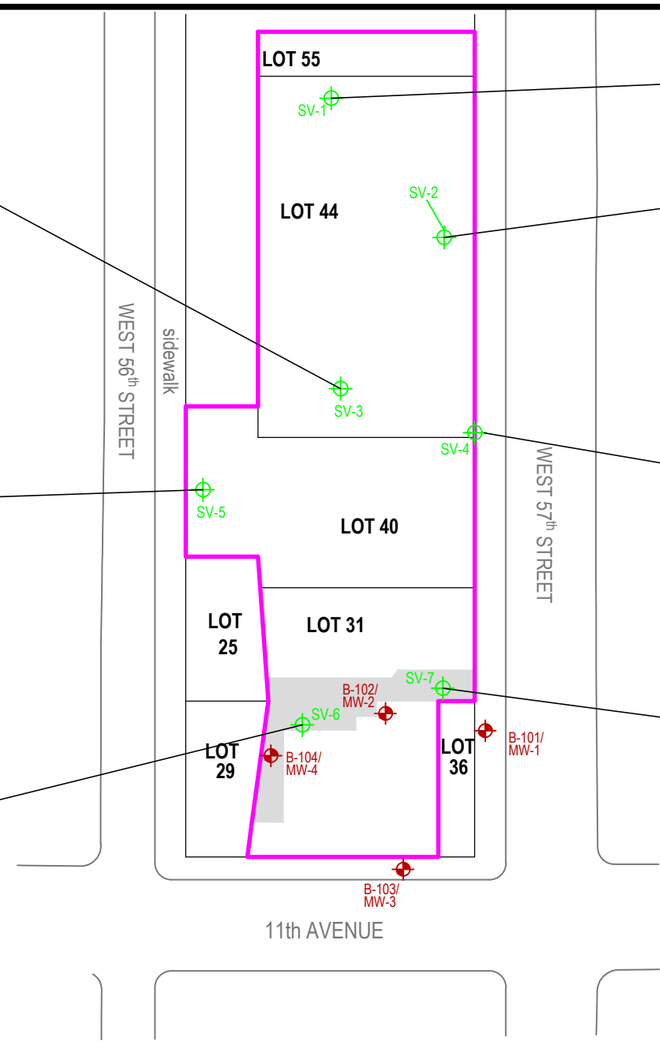

Sample ID	SV-1
Date Sampled	5/5/2014
VOCs-µg/m³	
Acetone	203
2-Butanone	21.1
Cyclohexane	25.2
Ethanol	74.2
Heptane	193
n-Hexane	26.5
Toluene	22.3

Sample ID	SV-2
Date Sampled	5/5/2014
VOCs-µg/m³	
Acetone	197
Carbon disulfide	20.1
Ethanol	126

Sample ID	SV-3
Date Sampled	5/5/2014
VOCs-µg/m³	
2,2,4-Trimethylpentane	81.7
Acetone	131
Ethanol	109
n-Hexane	22.7
Toluene	24

Sample ID	SV-4
Date Sampled	5/5/2014
VOCs-µg/m³	
Acetone	221
Ethanol	139

Sample ID	SV-5
Date Sampled	5/5/2014
VOCs-µg/m³	
1,1,1-Trichloroethane	32.5
2-Butanone	38.9
Acetone	456
Ethanol	52.8
Tetrachloroethene	26.6
Toluene	61.4

Sample ID	SV-7
Date Sampled	5/5/2014
VOCs-µg/m³	
2-Butanone	49
Acetone	1850
Ethanol	322
Isopropanol	28.8
Toluene	25

Sample ID	SV-6
Date Sampled	5/5/2014
VOCs-µg/m³	
2-Butanone	36.6
Acetone	620
Ethanol	32.6
Heptane	21.7
Tetrachloroethene	30.5
Toluene	50.9

Note:
Soil Vapor Concentrations shown are those compounds with detections greater than 20 µg/m³.

LEGEND:

PROJECT SITE BOUNDARY

LOT BOUNDARY

SV-4 SUB SLAB SOIL VAPOR SAMPLE LOCATION (2014 AKRF)

Sample ID	SV-4
Date Sampled	5/5/2014
VOCs-µg/m³	
Acetone	221
Ethanol	139

Sample ID number

Sample Date

Compound in Soil Vapor

Concentration in Soil Vapor (µg/m³) (micrograms per cubic meter)

0' 50 100' 200'

SCALE IN FEET

AKRF Environmental Consultants
440 Park Avenue South, New York, NY 10016

606 West 57th Street
New York, New York

SOIL VAPOR SAMPLE CONCENTRATIONS

DATE
8.25.2014

PROJECT NO.
11402

SCALE
as shown

FIGURE
9

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TABLES

Table 1
Water Level Data and Monitoring Well Construction Details
606 West 57th Street, New York, NY

Well Number	Date of Measurement	Total Depth (Ft. below grade)
B-2	10/3/2007	6
B-3	10/3/2007	5
B-15	10/3/2007	16
B-22	10/1/2007	10
B-24	10/5/2007	5

Well Number	Date of Installation	Total Depth (Ft. below top of casing)	Total Depth (Ft. below top of casing)	Screened Interval (Ft. below top of casing)	PVC Casing Elevation
MW-1	1/7/2008	18.42	18.00	8-18	21.90
MW-2	1/7/2008	22.00	21.70	12-22	23.40
MW-3	1/8/2008	22.00	21.70	12-22	23.85
MW-4	1/8/2008	19.00	18.80	9-19	23.73

Well Number	Groundwater Depth Feet below top of casing				Groundwater Elevation			
	1/16/2008	4/29/2009	11/12/2009	10/23/2013	1/16/2008	4/29/2009	11/12/2009	10/23/2013
MW-1	15.92	15.55	15.76	15.71	5.98	6.35	6.14	6.19
MW-2	18.12	17.85	17.96	19.12	5.28	5.55	5.44	4.28
MW-3	16.50	16.15	16.20	17.20	7.35	7.70	7.65	6.65
MW-4	18.19	17.90	18.06	dry at 18.80	5.54	5.83	5.67	dry

Notes:

Depth to water in borings B-2, B-3, B-156, B-22 and B-24 measured inside temporary wells. Temporary wellpoints were not surveyed.
Elevations based on a survey of monitoring well PVC casings performed on October 23, 2013.
Elevations in Manhattan Highway Datum, which is 2.75 feet above the National Geodetic Survey Datum of 1929, mean sea level, Sandy Hook, NJ.

Table 2
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units GC/MS VOA - 8260B	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-1(1-3) 220-2971-16 10/3/2007 12:25 Solid 1 ug/Kg	B-2(4-6) 220-2971-17 10/3/2007 13:20 Solid 1 ug/Kg	B-3(3-5) 220-2971-14 10/3/2007 11:24 Solid 1 ug/Kg	B-4(1-2) 220-2937-6 10/1/2007 11:50 Solid 1 ug/Kg	B-4(6-7) 220-2937-7 10/1/2007 11:55 Solid 1 ug/Kg
Acetone	50	100000	22 J B	42 B	**150**	**120** B	42 B
Benzene	60	4800	1.1 U	0.9 U	1.1 U	0.82 U	0.89 U
Bromodichloromethane	NS	NS	0.96 U	0.83 U	1 U	0.76 U	0.81 U
Bromoform	NS	NS	2.6 U	2.2 U	2.7 U	2 U	2.2 U
Bromomethane	NS	NS	2.3 U	1.9 U	2.4 U	1.8 U	1.9 U
Methyl Ethyl Ketone	120	100000	5 U	4.3 U	52	29	4.2 U
Carbon disulfide	NS	NS	0.79 U	0.67 U	4.6 J	0.62 U	0.66 U
Carbon tetrachloride	760	2400	1.1 U	0.9 U	1.1 U	0.82 U	0.89 U
Chlorobenzene	1100	100000	1.3 U	1.1 U	1.4 U	1 U	1.1 U
Chloroethane	NS	NS	1.9 U	1.6 U	2 U	1.5 U	1.6 U
Chloroform	370	49000	0.79 U	0.67 U	0.84 U	0.62 U	0.66 U
Chloromethane	NS	NS	1.5 U	1.3 U	1.6 U	1.2 U	1.3 U
Dibromochloromethane	NS	NS	1.6 U	1.4 U	1.7 U	1.2 U	1.3 U
1,1-Dichloroethane	270	26000	0.96 U	0.83 U	1 U	0.76 U	0.81 U
1,2-Dichloroethane	20	3100	1.6 U	1.4 U	1.7 U	1.3 U	1.4 U
1,1-Dichloroethene	330	100000	1.2 U	1 U	1.3 U	0.92 U	0.99 U
1,2-Dichloropropane	NS	NS	1.4 U	1.2 U	1.5 U	1.1 U	1.2 U
cis-1,3-Dichloropropene	NS	NS	0.92 U	0.79 U	0.98 U	0.72 U	0.78 U
trans-1,3-Dichloropropene	NS	NS	1.6 U	1.4 U	1.7 U	1.2 U	1.3 U
Ethylbenzene	1000	41000	1.1 U	0.9 U	1.2 J	0.82 U	0.89 U
2-Hexanone	NS	NS	3.9 U	3.4 U	4.2 U	3.1 U	3.3 U
Methylene Chloride	50	100000	7.2 J B	9.9 J B	5.7 J B	4.1 J B	8.7 J B
methyl isobutyl ketone	NS	NS	1.4 U	1.2 U	1.5 U	1.1 U	1.2 U
Styrene	NS	NS	1.9 U	1.6 U	2 U	1.5 U	1.6 U
1,1,2,2-Tetrachloroethane	NS	NS	1.5 U	1.3 U	1.6 U	1.2 U	1.3 U
Tetrachloroethene	1300	19000	1.1 U	0.94 U	2.1 J	8.5	0.93 U
Toluene	700	100000	0.87 U	0.75 U	1.5 J	0.69 U	0.74 U
1,1,1-Trichloroethane	680	100000	1.1 U	0.93 U	1.2 U	0.85 U	0.91 U
1,1,2-Trichloroethane	NS	NS	1.3 U	1.1 U	1.4 U	1 U	1.1 U
Trichloroethene	470	21000	1.5 U	1.3 U	1.6 U	1.1 U	1.2 U
Vinyl chloride	20	900	1.9 U	1.7 U	2.1 U	1.5 U	1.6 U
Xylenes, Total	260	100000	3.6 U	3.1 U	10	2.8 U	3.1 U
cis-1,2-Dichloroethene	250	100000	1.4 U	1.2 U	1.5 U	1.1 U	1.2 U
trans-1,2-Dichloroethene	190	100000	1.4 U	1.2 U	1.5 U	1.1 U	1.2 U

Table 2
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units GC/MS VOA - 8260B	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-5(1-2) 220-2937-8 10/1/2007 14:09 Solid 1 ug/Kg	B-5(5-6) 220-2937-9 10/1/2007 14:12 Solid 1 ug/Kg	B-6(1-2) 220-2937-10 10/1/2007 14:35 Solid 1 ug/Kg	B-6(5-6) 220-2937-11 10/1/2007 14:40 Solid 1 ug/Kg	B-7(1-2) 220-2995-1 10/5/2007 7:45 Solid 1 ug/Kg
Acetone	50	100000	14 J B	**77** B	14 J B	47 B	35 B
Benzene	60	4800	0.8 U	1.1 U	0.83 U	1.1 U	1 U
Bromodichloromethane	NS	NS	0.73 U	1 U	0.76 U	1 U	0.94 U
Bromoform	NS	NS	2 U	2.7 U	2 U	2.7 U	2.5 U
Bromomethane	NS	NS	1.7 U	2.3 U	1.8 U	2.4 U	2.2 U
Methyl Ethyl Ketone	120	100000	3.8 U	12 J	3.9 U	5.3 U	4.9 U
Carbon disulfide	NS	NS	0.6 U	0.82 U	0.62 U	0.83 U	0.77 U
Carbon tetrachloride	760	2400	0.8 U	1.1 U	0.83 U	1.1 U	1 U
Chlorobenzene	1100	100000	0.99 U	1.4 U	1 U	1.4 U	1.3 U
Chloroethane	NS	NS	1.4 U	2 U	1.5 U	2 U	1.8 U
Chloroform	370	49000	0.6 U	0.82 U	0.62 U	0.83 U	0.77 U
Chloromethane	NS	NS	1.1 U	1.6 U	1.2 U	1.6 U	1.5 U
Dibromochloromethane	NS	NS	1.2 U	1.7 U	1.3 U	1.7 U	1.6 U
1,1-Dichloroethane	270	26000	0.73 U	1 U	0.76 U	1 U	0.94 U
1,2-Dichloroethane	20	3100	1.2 U	1.7 U	1.3 U	1.7 U	1.6 U
1,1-Dichloroethene	330	100000	0.89 U	1.2 U	0.92 U	1.2 U	1.1 U
1,2-Dichloropropane	NS	NS	1.1 U	1.5 U	1.1 U	1.5 U	1.4 U
cis-1,3-Dichloropropene	NS	NS	0.7 U	0.96 U	0.73 U	0.98 U	0.9 U
trans-1,3-Dichloropropene	NS	NS	1.2 U	1.7 U	1.3 U	1.7 U	1.6 U
Ethylbenzene	1000	41000	0.8 U	1.1 U	0.83 U	1.1 U	1 U
2-Hexanone	NS	NS	3 U	4.1 U	3.1 U	4.2 U	3.8 U
Methylene Chloride	50	100000	4.5 J B	8.8 J B	19 J B	4.1 J B	8.6 J B
methyl isobutyl ketone	NS	NS	1.1 U	1.5 U	1.1 U	1.5 U	1.4 U
Styrene	NS	NS	1.5 U	2 U	1.5 U	2 U	1.9 U
1,1,2,2-Tetrachloroethane	NS	NS	1.2 U	1.6 U	1.2 U	1.6 U	1.5 U
Tetrachloroethene	1300	19000	3.4 J	1.1 U	8.9	8.7	1.1 U
Toluene	700	100000	0.67 U	0.91 U	0.69 U	0.93 U	0.86 U
1,1,1-Trichloroethane	680	100000	0.83 U	1.1 U	0.85 U	1.1 U	1.1 U
1,1,2-Trichloroethane	NS	NS	0.98 U	1.3 U	1 U	1.4 U	1.3 U
Trichloroethene	470	21000	1.1 U	1.5 U	1.2 U	1.6 U	1.4 U
Vinyl chloride	20	900	1.5 U	2 U	1.5 U	2 U	1.9 U
Xylenes, Total	260	100000	2.8 U	3.8 U	2.9 U	3.8 U	3.5 U
cis-1,2-Dichloroethene	250	100000	1 U	1.4 U	1.1 U	1.4 U	1.3 U
trans-1,2-Dichloroethene	190	100000	1.1 U	1.5 U	1.1 U	1.5 U	1.4 U

Table 2
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units GC/MS VOA - 8260B	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-7(5-6) 220-2995-2 10/5/2007 7:50 Solid 1 ug/Kg	B-8(1-2) 220-2937-15 10/1/2007 12:55 Solid 1 ug/Kg	B-8(5-6) 220-2937-14 10/1/2007 13:00 Solid 1 ug/Kg	B-9(1-2) 220-2937-4 10/1/2007 15:25 Solid 1 ug/Kg	B-9(6-7) 220-2937-5 10/1/2007 15:30 Solid 1 ug/Kg
Acetone	50	100000	3.4 U	**120** B	**110** B	13 J B	**93** B
Benzene	60	4800	1 U	0.95 U	1 U	0.82 U	0.87 U
Bromodichloromethane	NS	NS	0.96 U	0.87 U	0.91 U	0.76 U	0.8 U
Bromoform	NS	NS	2.5 U	2.3 U	2.4 U	2 U	2.1 U
Bromomethane	NS	NS	2.2 U	2 U	2.1 U	1.8 U	1.9 U
Methyl Ethyl Ketone	120	100000	4.9 U	29	13 J	3.9 U	24
Carbon disulfide	NS	NS	0.88 J	0.71 U	3.3 J	0.62 U	1.4 J
Carbon tetrachloride	760	2400	1 U	0.95 U	1 U	0.82 U	0.87 U
Chlorobenzene	1100	100000	1.3 U	1.2 U	1.2 U	1 U	1.1 U
Chloroethane	NS	NS	1.9 U	1.7 U	1.8 U	1.5 U	1.6 U
Chloroform	370	49000	0.78 U	0.71 U	0.74 U	0.62 U	0.65 U
Chloromethane	NS	NS	1.5 U	1.3 U	1.4 U	1.2 U	1.2 U
Dibromochloromethane	NS	NS	1.6 U	1.4 U	1.5 U	1.2 U	1.3 U
1,1-Dichloroethane	270	26000	0.96 U	0.87 U	0.91 U	0.76 U	0.8 U
1,2-Dichloroethane	20	3100	1.6 U	1.4 U	1.5 U	1.3 U	1.3 U
1,1-Dichloroethene	330	100000	1.2 U	1.1 U	1.1 U	0.92 U	0.97 U
1,2-Dichloropropane	NS	NS	1.4 U	1.3 U	1.4 U	1.1 U	1.2 U
cis-1,3-Dichloropropene	NS	NS	0.91 U	0.83 U	0.87 U	0.72 U	0.76 U
trans-1,3-Dichloropropene	NS	NS	1.6 U	1.4 U	1.5 U	1.2 U	1.3 U
Ethylbenzene	1000	41000	1 U	0.95 U	1 U	0.82 U	0.87 U
2-Hexanone	NS	NS	3.9 U	3.5 U	3.7 U	3.1 U	3.2 U
Methylene Chloride	50	100000	2.1 U	8.1 J B	11 J B	5.5 J B	19 J B
methyl isobutyl ketone	NS	NS	1.4 U	1.3 U	1.3 U	1.1 U	1.2 U
Styrene	NS	NS	1.9 U	1.7 U	1.8 U	1.5 U	1.6 U
1,1,2,2-Tetrachloroethane	NS	NS	1.5 U	1.4 U	1.5 U	1.2 U	1.3 U
Tetrachloroethene	1300	19000	1.1 U	4.4 J	5.1 J	0.86 U	0.91 U
Toluene	700	100000	0.87 U	0.79 U	0.83 U	0.69 U	0.73 U
1,1,1-Trichloroethane	680	100000	1.1 U	0.97 U	1 U	0.85 U	0.9 U
1,1,2-Trichloroethane	NS	NS	1.3 U	1.2 U	1.2 U	1 U	1.1 U
Trichloroethene	470	21000	1.5 U	1.3 U	1.4 U	1.1 U	1.2 U
Vinyl chloride	20	900	1.9 U	1.7 U	1.8 U	1.5 U	1.6 U
Xylenes, Total	260	100000	3.6 U	3.3 U	3.4 U	2.8 U	3 U
cis-1,2-Dichloroethene	250	100000	1.4 U	1.2 U	1.3 U	1.1 U	1.1 U
trans-1,2-Dichloroethene	190	100000	1.4 U	1.3 U	1.3 U	1.1 U	1.2 U

Table 2
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Volatile Organic Compounds

Sample ID **Lab Sample Number** **Sampling Date** **Matrix** **Dilution Factor** **Units** **GC/MS VOA - 8260B**	**Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg**	**Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg**	**B-10(4-5)** **220-2995-3** **10/5/2007 8:40** **Solid** **1** **ug/Kg**	**B-10(6-7)** **220-2995-4** **10/5/2007 8:45** **Solid** **1** **ug/Kg**	**B-11(1-3)** **220-2971-12** **10/3/2007 9:30** **Solid** **1** **ug/Kg**	**B-11(4-6)** **220-2971-13** **10/3/2007 10:00** **Solid** **1** **ug/Kg**	**B-12(1-3)** **220-2971-10** **10/3/2007 8:30** **Solid** **1** **ug/Kg**
Acetone	50	100000	**57** B	**59** B	23 B	160 U	29 B
Benzene	60	4800	0.81 U	0.8 U	0.79 U	47 U	0.78 U
Bromodichloromethane	NS	NS	0.74 U	0.73 U	0.72 U	47 U	0.71 U
Bromoform	NS	NS	2 U	1.9 U	1.9 U	93 U	1.9 U
Bromomethane	NS	NS	1.7 U	1.7 U	1.7 U	140 U	1.7 U
Methyl Ethyl Ketone	120	100000	3.8 U	16	3.7 U	140 U	3.7 U
Carbon disulfide	NS	NS	0.6 U	0.6 U	0.59 U	110 U	0.58 U
Carbon tetrachloride	760	2400	0.81 U	0.8 U	0.79 U	120 U	0.78 U
Chlorobenzene	1100	100000	1 U	0.99 U	0.98 U	47 U	0.96 U
Chloroethane	NS	NS	1.4 U	1.4 U	1.4 U	93 U	1.4 U
Chloroform	370	49000	0.6 U	0.6 U	0.59 U	82 U	0.58 U
Chloromethane	NS	NS	1.2 U	1.1 U	1.1 U	58 U	1.1 U
Dibromochloromethane	NS	NS	1.2 U	1.2 U	1.2 U	58 U	1.2 U
1,1-Dichloroethane	270	26000	0.74 U	0.73 U	0.72 U	70 U *	0.71 U
1,2-Dichloroethane	20	3100	1.2 U	1.2 U	1.2 U	70 U	1.2 U
1,1-Dichloroethene	330	100000	0.9 U	0.89 U	0.88 U	82 U	0.86 U
1,2-Dichloropropane	NS	NS	1.1 U	1.1 U	1.1 U	110 U *	1.1 U
cis-1,3-Dichloropropene	NS	NS	0.71 U	0.7 U	0.69 U	58 U	0.68 U
trans-1,3-Dichloropropene	NS	NS	1.2 U	1.2 U	1.2 U	35 U	1.2 U
Ethylbenzene	1000	41000	0.81 U	0.8 U	0.79 U	900	0.78 U
2-Hexanone	NS	NS	3 U	3 U	2.9 U	93 U	2.9 U
Methylene Chloride	50	100000	8.2 J B	9.3 J B	6.2 J B	47 U	6.5 J B
methyl isobutyl ketone	NS	NS	1.1 U	1.1 U	1 U	82 U	1 U
Styrene	NS	NS	1.5 U	1.5 U	1.4 U	58 U	1.4 U
1,1,2,2-Tetrachloroethane	NS	NS	1.2 U	1.2 U	1.2 U	47 U	1.1 U
Tetrachloroethene	1300	19000	0.84 U	0.83 U	0.82 U	58 U	0.81 U
Toluene	700	100000	0.67 U	0.82 J	0.65 U	35 U	0.65 U
1,1,1-Trichloroethane	680	100000	0.83 U	0.82 U	0.81 U	47 U	0.8 U
1,1,2-Trichloroethane	NS	NS	0.99 U	0.98 U	0.96 U	70 U *	0.95 U
Trichloroethene	470	21000	1.1 U	1.1 U	1.1 U	82 U	1.1 U
Vinyl chloride	20	900	1.5 U	1.5 U	1.4 U	93 U	1.4 U
Xylenes, Total	260	100000	2.8 U	3 J	2.7 U	**9400**	2.7 U
cis-1,2-Dichloroethene	250	100000	1 U	1 U	1 U	70 U *	1 U
trans-1,2-Dichloroethene	190	100000	1.1 U	1.1 U	1.1 U	58 U	1.1 U

Table 2
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units GC/MS VOA - 8260B	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-12(10-12) 220-2971-11 10/3/2007 9:00 Solid 1 ug/Kg	B-13(2-3) 220-2971-6 10/3/2007 12:50 Solid 1 ug/Kg	B-15(3-4) 220-2971-7 10/3/2007 13:20 Solid 1 ug/Kg	B-15(12-16) 220-2971-8 10/3/2007 13:25 Solid 1 ug/Kg	B-16(2-4) 220-2995-8 10/5/2007 12:20 Solid 1 ug/Kg
Acetone	50	100000	10 J B	46 B	17 J B	43 B	31 B
Benzene	60	4800	0.84 U	1.5 J	0.86 U	0.83 U	0.8 U
Bromodichloromethane	NS	NS	0.77 U	0.74 U	0.78 U	0.76 U	0.73 U
Bromoform	NS	NS	2 U	2 U	2.1 U	2 U	1.9 U
Bromomethane	NS	NS	1.8 U	1.7 U	1.8 U	1.8 U	1.7 U
Methyl Ethyl Ketone	120	100000	4 U	3.8 U	4.1 U	3.9 U	3.8 U
Carbon disulfide	NS	NS	0.62 U	1.2 J	0.64 U	0.62 U	0.6 U
Carbon tetrachloride	760	2400	0.84 U	0.81 U	0.86 U	0.83 U	0.8 U
Chlorobenzene	1100	100000	1 U	1 U	1.1 U	1 U	0.99 U
Chloroethane	NS	NS	1.5 U	1.4 U	1.5 U	1.5 U	1.4 U
Chloroform	370	49000	0.62 U	0.6 U	0.64 U	0.62 U	0.6 U
Chloromethane	NS	NS	1.2 U	1.1 U	1.2 U	1.2 U	1.1 U
Dibromochloromethane	NS	NS	1.3 U	1.2 U	1.3 U	1.2 U	1.2 U
1,1-Dichloroethane	270	26000	0.77 U	0.74 U	0.78 U	0.76 U	0.73 U
1,2-Dichloroethane	20	3100	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U
1,1-Dichloroethene	330	100000	0.93 U	0.9 U	0.95 U	0.92 U	0.89 U
1,2-Dichloropropane	NS	NS	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
cis-1,3-Dichloropropene	NS	NS	0.73 U	0.7 U	0.75 U	0.72 U	0.7 U
trans-1,3-Dichloropropene	NS	NS	1.3 U	1.2 U	1.3 U	1.2 U	1.2 U
Ethylbenzene	1000	41000	0.84 U	0.81 U	0.86 U	0.83 U	0.8 U
2-Hexanone	NS	NS	3.1 U	3 U	3.2 U	3.1 U	3 U
Methylene Chloride	50	100000	12 J B	44 B	6.8 J B	18 J B	5.7 J B
methyl isobutyl ketone	NS	NS	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Styrene	NS	NS	1.5 U	1.5 U	1.6 U	1.5 U	1.5 U
1,1,2,2-Tetrachloroethane	NS	NS	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U
Tetrachloroethene	1300	19000	0.87 U	0.84 U	0.89 U	0.86 U	0.83 U
Toluene	700	100000	0.7 U	2.9 J	0.71 U	0.69 U	0.66 U
1,1,1-Trichloroethane	680	100000	0.86 U	0.83 U	0.88 U	0.85 U	0.82 U
1,1,2-Trichloroethane	NS	NS	1 U	0.99 U	1.1 U	1 U	0.98 U
Trichloroethene	470	21000	1.2 U	1.1 U	1.2 U	1.2 U	1.1 U
Vinyl chloride	20	900	1.5 U	1.5 U	1.6 U	1.5 U	1.5 U
Xylenes, Total	260	100000	2.9 U	2.8 U	2.9 U	2.8 U	2.7 U
cis-1,2-Dichloroethene	250	100000	1.1 U	1 U	1.1 U	1.1 U	1 U
trans-1,2-Dichloroethene	190	100000	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U

Table 2
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units GC/MS VOA - 8260B	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-17(2-3) 220-2971-1 10/3/2007 8:35 Solid 1 ug/Kg	B-18(1-2) 220-2971-2 10/2/2007 10:25 Solid 1 ug/Kg	B-18(16-17) 220-2971-3 10/2/2007 10:30 Solid 1 ug/Kg	B-19(2-3) 220-2971-4 10/3/2007 11:42 Solid 1 ug/Kg	B-19(19-20) 220-2971-5 10/2/2007 11:45 Solid 1 ug/Kg
Acetone	50	100000	19 J B	23 B	34 B	27 B	**52** B
Benzene	60	4800	0.78 U	0.79 U	0.78 U	0.8 U	0.77 U
Bromodichloromethane	NS	NS	0.71 U	0.72 U	0.71 U	0.73 U	0.71 U
Bromoform	NS	NS	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Bromomethane	NS	NS	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Methyl Ethyl Ketone	120	100000	3.7 U	3.7 U	3.7 U	3.8 U	4 J
Carbon disulfide	NS	NS	0.58 U	0.59 U	0.58 U	0.6 U	0.58 U
Carbon tetrachloride	760	2400	0.78 U	0.79 U	0.78 U	0.8 U	0.77 U
Chlorobenzene	1100	100000	0.96 U	0.97 U	0.97 U	0.99 U	0.96 U
Chloroethane	NS	NS	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Chloroform	370	49000	0.58 U	0.59 U	0.58 U	0.6 U	0.58 U
Chloromethane	NS	NS	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Dibromochloromethane	NS	NS	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,1-Dichloroethane	270	26000	0.71 U	0.72 U	0.71 U	0.73 U	0.71 U
1,2-Dichloroethane	20	3100	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,1-Dichloroethene	330	100000	0.86 U	0.88 U	0.87 U	0.89 U	0.86 U
1,2-Dichloropropane	NS	NS	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
cis-1,3-Dichloropropene	NS	NS	0.68 U	0.69 U	0.68 U	0.7 U	0.67 U
trans-1,3-Dichloropropene	NS	NS	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Ethylbenzene	1000	41000	0.78 U	0.79 U	0.78 U	0.8 U	0.77 U
2-Hexanone	NS	NS	2.9 U	2.9 U	2.9 U	3 U	2.9 U
Methylene Chloride	50	100000	19 J B	7.1 J B	7.2 J B	8.9 J B	9.7 J B
methyl isobutyl ketone	NS	NS	1 U	1 U	1 U	1.1 U	1 U
Styrene	NS	NS	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U
1,1,2,2-Tetrachloroethane	NS	NS	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U
Tetrachloroethene	1300	19000	0.81 U	0.82 U	0.81 U	0.83 U	0.8 U
Toluene	700	100000	0.64 U	0.65 U	0.65 U	0.66 U	0.64 U
1,1,1-Trichloroethane	680	100000	0.8 U	0.81 U	0.8 U	0.82 U	0.79 U
1,1,2-Trichloroethane	NS	NS	0.95 U	0.96 U	0.96 U	0.98 U	0.94 U
Trichloroethene	470	21000	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Vinyl chloride	20	900	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U
Xylenes, Total	260	100000	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
cis-1,2-Dichloroethene	250	100000	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	190	100000	1 U	1.1 U	1.1 U	1.1 U	1 U

Table 2
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units GC/MS VOA - 8260B	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-20(1-3) 220-2995-5 10/5/2007 9:05 Solid 1 ug/Kg	B-21(2-3) 220-2995-6 10/5/2007 9:15 Solid 1 ug/Kg	B-22(4-5) 220-2937-1 10/1/2007 9:40 Solid 1 ug/Kg	B-22(8-9) 220-2937-2 10/1/2007 10:05 Solid 1 ug/Kg	B-24(4-5) 220-2995-9 10/5/2007 12:55 Solid 1 ug/Kg
Acetone	50	100000	25 B	22 J B	**60** B	38 B	4.5 J
Benzene	60	4800	0.77 U	0.8 U	0.8 U	0.79 U	0.42 J
Bromodichloromethane	NS	NS	0.71 U	0.73 U	0.73 U	0.72 U	0.24 U
Bromoform	NS	NS	1.9 U	1.9 U	1.9 U	1.9 U	1.2 U
Bromomethane	NS	NS	1.7 U	1.7 U	1.7 U	1.7 U	1 U
Methyl Ethyl Ketone	120	100000	3.7 U	3.8 U	3.8 U	3.7 U	1.1 U
Carbon disulfide	NS	NS	0.58 U	0.59 U	0.6 U	1.6 J	0.14 U
Carbon tetrachloride	760	2400	0.77 U	0.8 U	0.8 U	0.79 U	0.29 U
Chlorobenzene	1100	100000	0.96 U	0.99 U	0.99 U	0.98 U	0.15 U
Chloroethane	NS	NS	1.4 U	1.4 U	1.4 U	1.4 U	0.48 U
Chloroform	370	49000	0.58 U	0.59 U	0.6 U	0.59 U	0.27 U
Chloromethane	NS	NS	1.1 U	1.1 U	1.1 U	1.1 U	0.24 U
Dibromochloromethane	NS	NS	1.2 U	1.2 U	1.2 U	1.2 U	0.21 U
1,1-Dichloroethane	270	26000	0.71 U	0.73 U	0.73 U	0.72 U	0.23 U *
1,2-Dichloroethane	20	3100	1.2 U	1.2 U	1.2 U	1.2 U	0.25 U
1,1-Dichloroethene	330	100000	0.86 U	0.88 U	0.89 U	0.88 U	0.25 U
1,2-Dichloropropane	NS	NS	1.1 U	1.1 U	1.1 U	1.1 U	0.32 U *
cis-1,3-Dichloropropene	NS	NS	0.68 U	0.69 U	0.7 U	0.69 U	0.28 U
trans-1,3-Dichloropropene	NS	NS	1.2 U	1.2 U	1.2 U	1.2 U	0.28 U
Ethylbenzene	1000	41000	0.77 U	0.8 U	0.8 U	0.79 U	0.28 U
2-Hexanone	NS	NS	2.9 U	3 U	3 U	2.9 U	0.37 U
Methylene Chloride	50	100000	6.5 J B	3.8 J B	7.2 J B	9.2 J B	0.44 J
methyl isobutyl ketone	NS	NS	1 U	1.1 U	1.1 U	1 U	0.38 U
Styrene	NS	NS	1.4 U	1.4 U	1.5 U	1.4 U	0.7 U
1,1,2,2-Tetrachloroethane	NS	NS	1.1 U	1.2 U	1.2 U	1.2 U	0.23 U
Tetrachloroethene	1300	19000	0.81 U	0.83 U	0.83 U	0.82 U	0.3 U
Toluene	700	100000	0.64 U	0.66 U	0.66 U	0.66 U	0.66 J
1,1,1-Trichloroethane	680	100000	0.79 U	0.82 U	0.82 U	0.81 U	0.38 U
1,1,2-Trichloroethane	NS	NS	0.95 U	0.97 U	0.98 U	0.97 U	0.33 U *
Trichloroethene	470	21000	1.1 U	1.1 U	1.1 U	1.1 U	0.26 U
Vinyl chloride	20	900	1.4 U	1.5 U	1.5 U	1.4 U	0.3 U
Xylenes, Total	260	100000	2.7 U	2.7 U	2.7 U	2.7 U	0.46 U
cis-1,2-Dichloroethene	250	100000	1 U	1 U	1 U	1 U	0.33 U *
trans-1,2-Dichloroethene	190	100000	1 U	1.1 U	1.1 U	1.1 U	0.22 U

Table 3
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Semi-Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-1(1-3) 220-2971-16 10/3/2007 12:25 Solid 1 ug/Kg	B-2(4-6) 220-2971-17 10/3/2007 13:20 Solid 1 ug/Kg	B-3(3-5) 220-2971-14 10/3/2007 11:24 Solid 1 ug/Kg	B-4(1-2) 220-2937-6 10/1/2007 11:50 Solid 1 ug/Kg	B-4(6-7) 220-2937-7 10/1/2007 11:55 Solid 1 ug/Kg
GC/MS Semi VOA - 8270C							
Acenaphthene	20000	100000	160 J	72 U	91 U	130 U	330 J
Acenaphthylene	100000	100000	110 J	78 U	99 U	140 U	300 J
Anthracene	100000	100000	490	66 U M	140 J	660 J	1100
Benzo[a]anthracene	1000	1000	**1300**	79 J	300 J	520 J	640
Benzo[a]pyrene	1000	1000	980	53 U M	260 J	330 J	690
Benzo[b]fluoranthene	1000	1000	1000	130 J	280 J	520 J	**1100**
Benzo[g,h,i]perylene	100000	100000	890	80 U	290 J	250 J	310 J
Benzo[k]fluoranthene	800	3900	470 J	67 U M	110 J	120 U	66 U
Bis(2-chloroethoxy)methane	NS	NS	78 U	66 U	85 U	120 U	65 U
Bis(2-chloroethyl)ether	NS	NS	240 U	200 U	260 U	370 U	200 U *
Bis(2-ethylhexyl) phthalate	NS	NS	320 J	380 J	980	990	51 U
Butyl benzyl phthalate	NS	NS	68 U	58 U	73 U	110 U	56 U
Carbazole	NS	NS	180 J	70 U	89 U	130 U	68 U
Chrysene	1000	3900	**1300**	120 J	280 J	690 J	**1100**
Di-n-butyl phthalate	NS	NS	74 U	63 U	140 J	120 U	62 U
Di-n-octyl phthalate	NS	NS	76 U	65 U	83 U	120 U	63 U
4-Bromophenyl phenyl ether	NS	NS	78 U	66 U	85 U	120 U	65 U
4-Chloroaniline	NS	NS	65 U	55 U	70 U	100 U	54 U
2-Chloronaphthalene	NS	NS	84 U	72 U	91 U	130 U	70 U
4-Chlorophenyl phenyl ether	NS	NS	95 U	81 U	100 U	150 U	79 U
Dibenz(a,h)anthracene	330	330	210 J	62 U	83 J	120 U	300 J
Dibenzofuran	7000	59000	180 J	72 U	92 U	130 U	70 U
Diethyl phthalate	NS	NS	120 U	100 U	130 U	190 U	100 U
Dimethyl phthalate	NS	NS	85 U	72 U	92 U	130 U	71 U
1,2-Dichlorobenzene	1100	100000	76 U	65 U	83 U	120 U	64 U
1,3-Dichlorobenzene	2400	49000	78 U	66 U	84 U	120 U	65 U
1,4-Dichlorobenzene	1800	13000	75 U	64 U	82 U	120 U	63 U
3,3'-Dichlorobenzidine	NS	NS	54 U	46 U	58 U	85 U	45 U
2,4-Dinitrotoluene	NS	NS	73 U	63 U	80 U	120 U	61 U
2,6-Dinitrotoluene	NS	NS	190 U	160 U	210 U	300 U	160 U
Fluoranthene	100000	100000	2300	150 J	410 J	1000	1500
Fluorene	30000	100000	250 J	70 U	89 U	390 J	450
Hexachlorobenzene	330	1200	83 U	71 U	90 U	130 U	69 U
Hexachlorobutadiene	NS	NS	92 U	78 U	100 U	140 U	77 U
Hexachlorocyclopentadiene	NS	NS	69 U	58 U	74 U	110 U	57 U
Hexachloroethane	NS	NS	84 U	71 U	91 U	130 U	70 U
Indeno[1,2,3-cd]pyrene	500	500	**930**	77 J	260 J	260 J	420
Isophorone	NS	NS	99 U	84 U	110 U	160 U	82 U
2-Methylnaphthalene	NS	NS	88 U	75 U	96 U	1500	310 J
Naphthalene	12000	100000	190 J	64 J	89 J	1100	310 J
2-Nitroaniline	NS	NS	65 U	55 U	70 U	100 U	54 U
3-Nitroaniline	NS	NS	69 U	59 U	74 U	110 U	57 U
Nitrobenzene	NS	NS	89 U	76 U	96 U	140 U	74 U
N-Nitrosodi-n-propylamine	NS	NS	110 U	92 U	120 U	170 U	90 U
N-Nitrosodiphenylamine	NS	NS	87 U	74 U	94 U	140 U	72 U
Phenanthrene	100000	100000	2100	160 J	520 J	1200	2000
Pyrene	100000	100000	2400	140 J	490 J	1100	1100
1,2,4-Trichlorobenzene	NS	NS	77 U	66 U	83 U	120 U	64 U
4-Chloro-3-methylphenol	NS	NS	96 U	82 U	100 U	150 U	80 U
2-Chlorophenol	NS	NS	100 U	89 U	110 U	160 U	87 U
2-Methylphenol	330	100000	76 U	65 U	83 U	120 U	63 U
4-Methylphenol	330	100000	**1600**	170 J	180 J	**890**	**590**
2,4-Dichlorophenol	NS	NS	100 U	85 U	110 U	160 U	83 U
2,4-Dimethylphenol	NS	NS	65 U	55 U	70 U	100 U	54 U
2,4-Dinitrophenol	NS	NS	320 U *	270 U *	340 U *	500 U *	260 U *
4,6-Dinitro-2-methylphenol	NS	NS	370 U	320 U	400 U	590 U	310 U *
2-Nitrophenol	NS	NS	100 U	88 U	110 U	160 U	86 U
4-Nitrophenol	NS	NS	220 U	190 U	240 U	340 U	180 U
Pentachlorophenol	800	6700	34 U	29 U	37 U	54 U	28 U
Phenol	330	100000	58 U	49 U	62 U	91 U	48 U
2,4,5-Trichlorophenol	NS	NS	73 U	62 U	79 U	120 U	61 U
2,4,6-Trichlorophenol	NS	NS	71 U	60 U	76 U	110 U	59 U
Benzyl alcohol	NS	NS	100 U	85 U	170 J	160 U	83 U
4-Nitroaniline	NS	NS	73 U	62 U	79 U	110 U	60 U
2,2'-oxybis[1-chloropropane]	NS	NS	78 U	66 U	85 U	120 U	65 U

Table 3
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Semi-Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-5(1-2) 220-2937-8 10/1/2007 14:09 Solid 1 ug/Kg	B-5(5-6) 220-2937-9 10/1/2007 14:12 Solid 1 ug/Kg	B-6(1-2) 220-2937-10 10/1/2007 14:35 Solid 1 ug/Kg	B-6(5-6) 220-2937-11 10/1/2007 14:40 Solid 1 ug/Kg	B-7(1-2) 220-2995-1 10/5/2007 7:45 Solid 1 ug/Kg
GC/MS Semi VOA - 8270C							
Acenaphthene	20000	100000	65 U	88 U	1700	280 J	81 U
Acenaphthylene	100000	100000	71 U	96 U	670 J	130 J	89 U
Anthracene	100000	100000	60 U	81 U	4100	540	75 U M
Benzo[a]anthracene	1000	1000	54 U	180 J	**7400**	**1300**	270 J
Benzo[a]pyrene	1000	1000	48 U	92 J	**5200**	870	280 J
Benzo[b]fluoranthene	1000	1000	64 U	120 J M	**6000**	**1100**	470
Benzo[g,h,i]perylene	100000	100000	73 U	150 J	3400	640	180 J
Benzo[k]fluoranthene	800	3900	61 U	82 U M	**2700**	370 J	76 U
Bis(2-chloroethoxy)methane	NS	NS	60 U	81 U	250 U	82 U	75 U
Bis(2-chloroethyl)ether	NS	NS	180 U *	250 U *	750 U *	250 U *	230 U
Bis(2-ethylhexyl) phthalate	NS	NS	48 U	490 J	190 U	440 J M	60 U
Butyl benzyl phthalate	NS	NS	52 U	70 U	210 U	71 U	65 U
Carbazole	NS	NS	63 U	85 U	1400 J	86 U	79 U
Chrysene	1000	3900	65 U	180 J M	**6700**	**1200**	270 J
Di-n-butyl phthalate	NS	NS	57 U	77 U	230 U	78 U	72 U
Di-n-octyl phthalate	NS	NS	59 U	79 U	240 U	80 U	74 U
4-Bromophenyl phenyl ether	NS	NS	60 U	81 U	250 U	82 U	75 U
4-Chloroaniline	NS	NS	50 U	67 U	200 U	68 U	62 U
2-Chloronaphthalene	NS	NS	65 U	87 U	260 U	89 U	81 U
4-Chlorophenyl phenyl ether	NS	NS	73 U	99 U	300 U	100 U	91 U
Dibenz(a,h)anthracene	330	330	56 U	76 U	**940** J	**460** J	71 U
Dibenzofuran	7000	59000	65 U	88 U	1200 J	89 U	82 U
Diethyl phthalate	NS	NS	92 U	120 U	380 U	130 U	120 U
Dimethyl phthalate	NS	NS	66 U	89 U	270 U	90 U	82 U
1,2-Dichlorobenzene	1100	100000	59 U	79 U	240 U	80 U	74 U
1,3-Dichlorobenzene	2400	49000	60 U	81 U	240 U	82 U	75 U
1,4-Dichlorobenzene	1800	13000	58 U	78 U	240 U	79 U	73 U
3,3'-Dichlorobenzidine	NS	NS	41 U	56 U	170 U	57 U	52 U
2,4-Dinitrotoluene	NS	NS	57 U	76 U	230 U	77 U	71 U
2,6-Dinitrotoluene	NS	NS	150 U	200 U	610 U	200 U	190 U
Fluoranthene	100000	100000	62 U	240 J	15000	2400	430 J
Fluorene	30000	100000	63 U	85 U	1800	160 J	79 U
Hexachlorobenzene	330	1200	64 U	87 U	260 U	88 U	80 U
Hexachlorobutadiene	NS	NS	71 U	96 U	290 U	97 U	89 U
Hexachlorocyclopentadiene	NS	NS	53 U	71 U	220 U	72 U	66 U *
Hexachloroethane	NS	NS	64 U	87 U	260 U	88 U	81 U
Indeno[1,2,3-cd]pyrene	500	500	66 U	92 J	**4000**	**750**	180 J
Isophorone	NS	NS	76 U	100 U	310 U	100 U	96 U
2-Methylnaphthalene	NS	NS	68 U	92 U	350 J	93 U	85 U
Naphthalene	12000	100000	57 U	76 U	600 J	77 U	71 U
2-Nitroaniline	NS	NS	50 U	68 U	200 U	69 U	63 U
3-Nitroaniline	NS	NS	53 U	72 U	220 U	72 U	66 U
Nitrobenzene	NS	NS	68 U	92 U	280 U	93 U	86 U
N-Nitrosodi-n-propylamine	NS	NS	83 U	110 U	340 U	110 U	100 U
N-Nitrosodiphenylamine	NS	NS	67 U	91 U	270 U	92 U	84 U
Phenanthrene	100000	100000	61 U	83 U	16000	740	220 J
Pyrene	100000	100000	54 U	330 J	13000	1800	390 J
1,2,4-Trichlorobenzene	NS	NS	59 U	80 U	240 U	81 U	74 U
4-Chloro-3-methylphenol	NS	NS	74 U	100 U	300 U	100 U	93 U
2-Chlorophenol	NS	NS	80 U	110 U	330 U	110 U	100 U
2-Methylphenol	330	100000	59 U	79 U	240 U	80 U	74 U
4-Methylphenol	330	100000	56 U	84 J	230 U	**1100**	70 U
2,4-Dichlorophenol	NS	NS	77 U	100 U	320 U	110 U	97 U
2,4-Dimethylphenol	NS	NS	50 U	67 U	200 U	68 U	62 U
2,4-Dinitrophenol	NS	NS	240 U *	330 U *	1000 U *	330 U *	310 U *
4,6-Dinitro-2-methylphenol	NS	NS	290 U *	390 U *	1200 U *	390 U *	360 U *
2-Nitrophenol	NS	NS	80 U	110 U	330 U	110 U	100 U
4-Nitrophenol	NS	NS	170 U	230 U	690 U	230 U	210 U
Pentachlorophenol	800	6700	26 U	35 U	110 U	36 U	33 U
Phenol	330	100000	44 U	60 U	180 U	61 U	56 U
2,4,5-Trichlorophenol	NS	NS	56 U	76 U	230 U	77 U	71 U
2,4,6-Trichlorophenol	NS	NS	54 U	73 U	220 U	74 U	68 U
Benzyl alcohol	NS	NS	77 U	100 U	320 U	110 U	97 U
4-Nitroaniline	NS	NS	56 U	75 U	230 U	76 U	70 U
2,2'-oxybis[1-chloropropane]	NS	NS	60 U	81 U	250 U	82 U	75 U

Table 3
606 West 57th Street
New York, New York
Soil Sampling Results 2007
Semi-Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-7(5-6) 220-2995-2 10/5/2007 7:50 Solid 1 ug/Kg	B-8(1-2) 220-2937-15 10/1/2007 12:55 Solid 1 ug/Kg	B-8(5-6) 220-2937-14 10/1/2007 13:00 Solid 1 ug/Kg	B-9(1-2) 220-2937-4 10/1/2007 15:25 Solid 1 ug/Kg	B-9(6-7) 220-2937-5 10/1/2007 15:30 Solid 1 ug/Kg
GC/MS Semi VOA - 8270C							
Acenaphthene	20000	100000	1100	2000 J	79 U	1000 J	130 J
Acenaphthylene	100000	100000	530	2400 J	86 U	570 J	77 U
Anthracene	100000	100000	480	7800	73 U M	2700	310 J
Benzo[a]anthracene	1000	1000	470 J	**14000**	89 J	**5200**	840
Benzo[a]pyrene	1000	1000	400 J	**11000**	88 J	**4100**	740
Benzo[b]fluoranthene	1000	1000	480	**12000**	110 J	**4600**	950
Benzo[g,h,i]perylene	100000	100000	290 J	5700	96 J	2800	480
Benzo[k]fluoranthene	800	3900	180 J	**4500**	74 U M	**2000**	400 J
Bis(2-chloroethoxy)methane	NS	NS	78 U	700 U	73 U	240 U	66 U
Bis(2-chloroethyl)ether	NS	NS	240 U	2100 U	220 U *	740 U *	200 U *
Bis(2-ethylhexyl) phthalate	NS	NS	260 J	550 U	320 J	190 U	85 J
Butyl benzyl phthalate	NS	NS	67 U	610 U	63 U	210 U	57 U
Carbazole	NS	NS	82 U	1500 J	77 U	1400 J	69 U
Chrysene	1000	3900	510	**14000**	84 J	**4900**	850
Di-n-butyl phthalate	NS	NS	74 U	670 U	70 U	230 U	63 U
Di-n-octyl phthalate	NS	NS	76 U	680 U	71 U	240 U	64 U
4-Bromophenyl phenyl ether	NS	NS	78 U	700 U	73 U	240 U	66 U
4-Chloroaniline	NS	NS	64 U	580 U	60 U	200 U	54 U
2-Chloronaphthalene	NS	NS	84 U	760 U	79 U	260 U	71 U
4-Chlorophenyl phenyl ether	NS	NS	94 U	850 U	89 U	290 U	80 U
Dibenz(a,h)anthracene	330	330	76 J	**1900** J	270 J	**680** J	330 J
Dibenzofuran	7000	59000	480 J	1700 J	79 U	1100 J	71 U
Diethyl phthalate	NS	NS	120 U	1100 U	110 U	370 U	100 U
Dimethyl phthalate	NS	NS	85 U	760 U	80 U	260 U	72 U
1,2-Dichlorobenzene	1100	100000	76 U	690 U	71 U	240 U	64 U
1,3-Dichlorobenzene	2400	49000	77 U	700 U	73 U	240 U	65 U
1,4-Dichlorobenzene	1800	13000	75 U	680 U	71 U	230 U	64 U
3,3'-Dichlorobenzidine	NS	NS	54 U	480 U	50 U	170 U	45 U
2,4-Dinitrotoluene	NS	NS	73 U	660 U	69 U	230 U	62 U
2,6-Dinitrotoluene	NS	NS	190 U	1700 U	180 U	600 U	160 U
Fluoranthene	100000	100000	1000	27000	170 J	11000	1400
Fluorene	30000	100000	1700	4800	77 U	1400 J	160 J
Hexachlorobenzene	330	1200	83 U	**750** U	78 U	260 U	70 U
Hexachlorobutadiene	NS	NS	92 U	830 U	86 U	290 U	77 U
Hexachlorocyclopentadiene	NS	NS	68 U *	620 U	64 U	210 U	58 U
Hexachloroethane	NS	NS	83 U	750 U	78 U	260 U	70 U
Indeno[1,2,3-cd]pyrene	500	500	300 J	**6900**	97 J	**2800**	**600**
Isophorone	NS	NS	99 U	890 U	93 U	310 U	83 U
2-Methylnaphthalene	NS	NS	750	800 U	83 U	310 J	130 J
Naphthalene	12000	100000	920	840 J	69 U	820 J	99 J
2-Nitroaniline	NS	NS	65 U	580 U	61 U	200 U	55 U
3-Nitroaniline	NS	NS	68 U	620 U	64 U	210 U	58 U
Nitrobenzene	NS	NS	1000	800 U	83 U	280 U	75 U
N-Nitrosodi-n-propylamine	NS	NS	110 U	970 U	100 U	330 U	91 U
N-Nitrosodiphenylamine	NS	NS	87 U	780 U	81 U	270 U	73 U
Phenanthrene	100000	100000	4600	17000	140 J	12000	440
Pyrene	100000	100000	1000	21000	150 J	10000	1200
1,2,4-Trichlorobenzene	NS	NS	77 U	690 U	72 U	240 U	65 U
4-Chloro-3-methylphenol	NS	NS	96 U	870 U	90 U	300 U	81 U
2-Chlorophenol	NS	NS	100 U	940 U	97 U	320 U	88 U
2-Methylphenol	330	100000	76 U	**680** U	71 U	240 U	64 U
4-Methylphenol	330	100000	**800**	**650** U	**390** J	220 U	61 U
2,4-Dichlorophenol	NS	NS	100 U	900 U	94 U	310 U	84 U
2,4-Dimethylphenol	NS	NS	64 U	580 U	60 U	200 U	54 U
2,4-Dinitrophenol	NS	NS	320 U *	2800 U *	300 U *	980 U *	270 U *
4,6-Dinitro-2-methylphenol	NS	NS	370 U *	3400 U	350 U *	1200 U *	310 U *
2-Nitrophenol	NS	NS	100 U	930 U	97 U	320 U	87 U
4-Nitrophenol	NS	NS	220 U	2000 U	200 U	680 U	180 U
Pentachlorophenol	800	6700	34 U	310 U	32 U	110 U	29 U
Phenol	330	100000	57 U	**520** U	54 U	180 U	48 U
2,4,5-Trichlorophenol	NS	NS	73 U	660 U	69 U	230 U	62 U
2,4,6-Trichlorophenol	NS	NS	70 U	630 U	66 U	220 U	59 U
Benzyl alcohol	NS	NS	100 U	900 U	94 U	310 U	84 U
4-Nitroaniline	NS	NS	72 U	650 U	68 U	220 U	61 U
2,2'-oxybis[1-chloropropane]	NS	NS	78 U	700 U	73 U	240 U	66 U

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Semi-Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-10(4-5) 220-2995-3 10/5/2007 8:40 Solid 1 ug/Kg	B-10(6-7) 220-2995-4 10/5/2007 8:45 Solid 1 ug/Kg	B-11(1-3) 220-2971-12 10/3/2007 9:30 Solid 1 ug/Kg	B-11(4-6) 220-2971-13 10/3/2007 10:00 Solid 1 ug/Kg	B-12(1-3) 220-2971-10 10/3/2007 8:30 Solid 1 ug/Kg
GC/MS Semi VOA - 8270C							
Acenaphthene	20000	100000	65 U	340 J	63 U	5100	61 U
Acenaphthylene	100000	100000	71 U	69 U	69 U	730 U	66 U
Anthracene	100000	100000	60 U	59 U	58 U	620 U	89 J
Benzo[a]anthracene	1000	1000	72 J	530	52 U	560 U	180 J
Benzo[a]pyrene	1000	1000	82 J	110 J	46 U	490 U	120 J
Benzo[b]fluoranthene	1000	1000	120 J M	180 J	62 U	660 U	160 J
Benzo[g,h,i]perylene	100000	100000	73 U	71 U	71 U	750 U	84 J
Benzo[k]fluoranthene	800	3900	61 U M	60 U	59 U	630 U	64 J
Bis(2-chloroethoxy)methane	NS	NS	60 U	59 U	58 U	620 U	56 U
Bis(2-chloroethyl)ether	NS	NS	180 U	180 U	180 U	1900 U	170 U
Bis(2-ethylhexyl) phthalate	NS	NS	140 J	46 U	50 J	490 U	44 U
Butyl benzyl phthalate	NS	NS	52 U	51 U	51 U	540 U	49 U
Carbazole	NS	NS	63 U	62 U	61 U	720 J	59 U
Chrysene	1000	3900	67 J M	64 U	63 U	680 U	180 J
Di-n-butyl phthalate	NS	NS	57 U	56 U	56 U	590 U	54 U
Di-n-octyl phthalate	NS	NS	59 U	57 U	57 U	610 U	55 U
4-Bromophenyl phenyl ether	NS	NS	60 U	59 U	58 U	620 U	56 U
4-Chloroaniline	NS	NS	50 U	49 U	48 U	510 U	46 U
2-Chloronaphthalene	NS	NS	65 U	63 U	63 U	670 U	61 U
4-Chlorophenyl phenyl ether	NS	NS	73 U	71 U	71 U	760 U	68 U
Dibenz(a,h)anthracene	330	330	56 U	55 U	55 U	**580** U	53 U
Dibenzofuran	7000	59000	65 U	64 U	63 U	1600 J	61 U
Diethyl phthalate	NS	NS	92 U	90 U	89 U	950 U	86 U
Dimethyl phthalate	NS	NS	65 U	64 U	64 U	680 U	61 U
1,2-Dichlorobenzene	1100	100000	59 U	58 U	57 U	610 U	55 U
1,3-Dichlorobenzene	2400	49000	60 U	59 U	58 U	620 U	56 U
1,4-Dichlorobenzene	1800	13000	58 U	57 U	56 U	600 U	54 U
3,3'-Dichlorobenzidine	NS	NS	41 U	41 U	40 U	430 U	39 U
2,4-Dinitrotoluene	NS	NS	56 U	55 U	55 U	590 U	53 U
2,6-Dinitrotoluene	NS	NS	150 U	140 U	140 U	1500 U	140 U
Fluoranthene	100000	100000	69 J	450	60 U	640 U	330 J
Fluorene	30000	100000	63 U	680	61 U	6300	59 U
Hexachlorobenzene	330	1200	64 U	63 U	62 U	**660** U	60 U
Hexachlorobutadiene	NS	NS	71 U	69 U	69 U	730 U	66 U
Hexachlorocyclopentadiene	NS	NS	53 U *	52 U *	51 U	550 U	49 U
Hexachloroethane	NS	NS	64 U	63 U	63 U	670 U	60 U
Indeno[1,2,3-cd]pyrene	500	500	69 J	64 U	64 U	**680** U	86 J
Isophorone	NS	NS	76 U	75 U	74 U	790 U	71 U
2-Methylnaphthalene	NS	NS	68 U	67 U	66 U	42000	64 U
Naphthalene	12000	100000	56 U	57 J	55 U	**18000**	53 U
2-Nitroaniline	NS	NS	50 U	49 U	49 U	520 U	47 U
3-Nitroaniline	NS	NS	53 U	52 U	51 U	550 U	49 U
Nitrobenzene	NS	NS	68 U	67 U	66 U	710 U	64 U
N-Nitrosodi-n-propylamine	NS	NS	83 U	81 U	81 U	860 U	78 U
N-Nitrosodiphenylamine	NS	NS	67 U	66 U	65 U	690 U	63 U
Phenanthrene	100000	100000	61 U	60 U	59 U	9700	380
Pyrene	100000	100000	76 J	570 M	58 J	3900	360
1,2,4-Trichlorobenzene	NS	NS	59 U	58 U	58 U	610 U	55 U
4-Chloro-3-methylphenol	NS	NS	74 U	73 U	72 U	770 U	69 U
2-Chlorophenol	NS	NS	80 U	78 U	78 U	830 U	75 U
2-Methylphenol	330	100000	59 U	57 U	57 U	**610** U	55 U
4-Methylphenol	330	100000	56 U	55 U	54 U	**580** U	52 U
2,4-Dichlorophenol	NS	NS	77 U	75 U	75 U	800 U	72 U
2,4-Dimethylphenol	NS	NS	50 U	49 U	48 U	520 U	47 U
2,4-Dinitrophenol	NS	NS	240 U *	240 U *	240 U *	2500 U *	230 U *
4,6-Dinitro-2-methylphenol	NS	NS	290 U *	280 U *	280 U	3000 U	270 U
2-Nitrophenol	NS	NS	80 U	78 U	78 U	830 U	75 U
4-Nitrophenol	NS	NS	170 U	170 U	160 U	1700 U	160 U
Pentachlorophenol	800	6700	26 U	26 U	25 U	270 U	25 U
Phenol	330	100000	44 U	43 U	43 U	**460** U	41 U
2,4,5-Trichlorophenol	NS	NS	56 U	55 U	55 U	580 U	53 U
2,4,6-Trichlorophenol	NS	NS	54 U	53 U	53 U	560 U	51 U
Benzyl alcohol	NS	NS	77 U	75 U	75 U	800 U	72 U
4-Nitroaniline	NS	NS	56 U	55 U	54 U	580 U	52 U
2,2'-oxybis[1-chloropropane]	NS	NS	60 U	59 U	58 U	620 U	56 U

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Semi-Volatile Organic Compounds

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-12(10-12) 220-2971-11 10/3/2007 9:00 Solid 1 ug/Kg	B-13(2-3) 220-2971-6 10/3/2007 12:50 Solid 1 ug/Kg	B-15(3-4) 220-2971-7 10/3/2007 13:20 Solid 1 ug/Kg	B-15(12-16) 220-2971-8 10/3/2007 13:25 Solid 1 ug/Kg	B-16(2-4) 220-2995-8 10/5/2007 12:20 Solid 1 ug/Kg
GC/MS Semi VOA - 8270C							
Acenaphthene	20000	100000	66 U	130 U	7600 J	870	64 U
Acenaphthylene	100000	100000	72 U	260 J	1600 J	250 J	70 U
Anthracene	100000	100000	61 U	260 J	13000	1600	110 J
Benzo[a]anthracene	1000	1000	55 U	520 J	**19000**	**2200**	570
Benzo[a]pyrene	1000	1000	48 U	490 J	**15000**	**1600**	600
Benzo[b]fluoranthene	1000	1000	65 U	**1600**	**16000**	**1800**	640 M
Benzo[g,h,i]perylene	100000	100000	74 U	650 J	11000	1200	570
Benzo[k]fluoranthene	800	3900	62 U	120 U	**6700** J	690 J	230 J M
Bis(2-chloroethoxy)methane	NS	NS	61 U	120 U	1200 U	120 U	59 U
Bis(2-chloroethyl)ether	NS	NS	190 U	370 U	3800 U	360 U	180 U
Bis(2-ethylhexyl) phthalate	NS	NS	140 J	96 U	990 U	1300	97 J
Butyl benzyl phthalate	NS	NS	53 U	100 U	1100 U	100 U	51 U
Carbazole	NS	NS	64 U	130 U	5700 J	720 J	62 U
Chrysene	1000	3900	67 U	**1500**	**19000**	**2000**	610
Di-n-butyl phthalate	NS	NS	58 U	130 J	1200 U	110 U	57 U
Di-n-octyl phthalate	NS	NS	60 U	120 U	1200 U	120 U	58 U
4-Bromophenyl phenyl ether	NS	NS	61 U	120 U	1200 U	120 U	59 U
4-Chloroaniline	NS	NS	51 U	100 U	1000 U	99 U	49 U
2-Chloronaphthalene	NS	NS	66 U	130 U	1300 U	130 U	64 U
4-Chlorophenyl phenyl ether	NS	NS	74 U	150 U	1500 U	150 U	72 U
Dibenz(a,h)anthracene	330	330	57 U	180 J	**2700** J	320 J	140 J
Dibenzofuran	7000	59000	66 U	130 U	5000 J	720 J	64 U
Diethyl phthalate	NS	NS	94 U	190 U	1900 U	180 U	91 U
Dimethyl phthalate	NS	NS	67 U	130 U	1400 U	130 U	65 U
1,2-Dichlorobenzene	1100	100000	60 U	120 U	**1200** U	120 U	58 U
1,3-Dichlorobenzene	2400	49000	61 U	120 U	1200 U	120 U	59 U
1,4-Dichlorobenzene	1800	13000	59 U	120 U	1200 U	120 U	57 U
3,3'-Dichlorobenzidine	NS	NS	42 U	83 U	860 U	83 U	41 U
2,4-Dinitrotoluene	NS	NS	58 U	110 U	1200 U	110 U	56 U
2,6-Dinitrotoluene	NS	NS	150 U	300 U	3100 U	290 U	150 U
Fluoranthene	100000	100000	63 U	1100	46000	5200	940
Fluorene	30000	100000	65 U	130 U	6400 J	860	62 U
Hexachlorobenzene	330	1200	65 U	130 U	**1300** U	130 U	63 U
Hexachlorobutadiene	NS	NS	72 U	140 U	1500 U	140 U	70 U
Hexachlorocyclopentadiene	NS	NS	54 U	110 U	1100 U	110 U	52 U *
Hexachloroethane	NS	NS	66 U	130 U	1300 U	130 U	64 U
Indeno[1,2,3-cd]pyrene	500	500	67 U	**570** J	**12000**	**1300**	**570**
Isophorone	NS	NS	78 U	150 U	1600 U	150 U	75 U
2-Methylnaphthalene	NS	NS	69 U	610 J	1800 J	280 J	120 J
Naphthalene	12000	100000	58 U	900	4700 J	850	79 J
2-Nitroaniline	NS	NS	51 U	100 U	1000 U	100 U	49 U
3-Nitroaniline	NS	NS	54 U	110 U	1100 U	110 U	52 U
Nitrobenzene	NS	NS	70 U	140 U	1400 U	140 U	67 U
N-Nitrosodi-n-propylamine	NS	NS	85 U	170 U	1700 U	170 U	82 U
N-Nitrosodiphenylamine	NS	NS	68 U	130 U	1400 U	130 U	66 U
Phenanthrene	100000	100000	62 U	740 J	53000	6500	380
Pyrene	100000	100000	55 U	1000	36000	4100	830
1,2,4-Trichlorobenzene	NS	NS	60 U	120 U	1200 U	120 U	58 U
4-Chloro-3-methylphenol	NS	NS	76 U	150 U	1500 U	150 U	73 U
2-Chlorophenol	NS	NS	82 U	160 U	1700 U	160 U	79 U
2-Methylphenol	330	100000	60 U	120 U	**1200** U	120 U	58 U
4-Methylphenol	330	100000	57 U	110 U	**1200** U	170 J	55 U
2,4-Dichlorophenol	NS	NS	79 U	160 U	1600 U	150 U	76 U
2,4-Dimethylphenol	NS	NS	51 U	100 U	1000 U	99 U	49 U
2,4-Dinitrophenol	NS	NS	250 U *	490 U *	5100 U *	490 U *	240 U *
4,6-Dinitro-2-methylphenol	NS	NS	290 U	580 U	6000 U	570 U	280 U *
2-Nitrophenol	NS	NS	81 U	160 U	1700 U	160 U	79 U
4-Nitrophenol	NS	NS	170 U	340 U	3500 U	340 U	170 U
Pentachlorophenol	800	6700	27 U	53 U	540 U	52 U	26 U
Phenol	330	100000	45 U	89 U	**920** U	88 U	44 U
2,4,5-Trichlorophenol	NS	NS	58 U	110 U	1200 U	110 U	56 U
2,4,6-Trichlorophenol	NS	NS	55 U	110 U	1100 U	110 U	54 U
Benzyl alcohol	NS	NS	79 U	160 U	1600 U	150 U	76 U
4-Nitroaniline	NS	NS	57 U	110 U	1200 U	110 U	77 J
2,2'-oxybis[1-chloropropane]	NS	NS	61 U	120 U	1200 U	120 U	59 U

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Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-17(2-3) 220-2971-1 10/3/2007 8:35 Solid 1 ug/Kg	B-18(1-2) 220-2971-2 10/2/2007 10:25 Solid 1 ug/Kg	B-18(16-17) 220-2971-3 10/2/2007 10:30 Solid 1 ug/Kg	B-19(2-3) 220-2971-4 10/3/2007 11:42 Solid 1 ug/Kg	B-19(19-20) 220-2971-5 10/2/2007 11:45 Solid 1 ug/Kg
GC/MS Semi VOA - 8270C							
Acenaphthene	20000	100000	220 J	89 J	61 U	64 U	1600
Acenaphthylene	100000	100000	85 J	140 J	66 U	70 U	68 U
Anthracene	100000	100000	590	290 J	56 U M	59 U M	1100 M
Benzo[a]anthracene	1000	1000	**2200**	**1600**	50 U	53 U	120 J
Benzo[a]pyrene	1000	1000	**2100**	**1700**	44 U	47 U	46 U
Benzo[b]fluoranthene	1000	1000	**2500**	**2300**	59 U	63 U	61 U
Benzo[g,h,i]perylene	100000	100000	2300	1700	68 U	72 U	70 U
Benzo[k]fluoranthene	800	3900	**1100**	660	57 U	60 U	58 U
Bis(2-chloroethoxy)methane	NS	NS	55 U	58 U	56 U	59 U	58 U
Bis(2-chloroethyl)ether	NS	NS	170 U	180 U	170 U	180 U	170 U
Bis(2-ethylhexyl) phthalate	NS	NS	560	46 U	220 J	96 J	95 J
Butyl benzyl phthalate	NS	NS	48 U	50 U	49 U	51 U	50 U
Carbazole	NS	NS	230 J	150 J	59 U	62 U	61 U
Chrysene	1000	3900	**2400**	**1700**	61 U	64 U	240 J
Di-n-butyl phthalate	NS	NS	53 U	63 J	53 U	57 U	55 U
Di-n-octyl phthalate	NS	NS	54 U	57 U	55 U	58 U	56 U
4-Bromophenyl phenyl ether	NS	NS	55 U	58 U	56 U	59 U	58 U
4-Chloroaniline	NS	NS	46 U	48 U	46 U	49 U	48 U
2-Chloronaphthalene	NS	NS	60 U	62 U	60 U	64 U	62 U
4-Chlorophenyl phenyl ether	NS	NS	67 U	70 U	68 U	72 U	70 U
Dibenz(a,h)anthracene	330	330	**400**	**350** J	52 U	56 U	54 U
Dibenzofuran	7000	59000	140 J	68 J	61 U	64 U	740
Diethyl phthalate	NS	NS	85 U	89 U	86 U	91 U	88 U
Dimethyl phthalate	NS	NS	60 U	63 U	61 U	65 U	63 U
1,2-Dichlorobenzene	1100	100000	54 U	57 U	55 U	58 U	56 U
1,3-Dichlorobenzene	2400	49000	55 U	58 U	56 U	59 U	57 U
1,4-Dichlorobenzene	1800	13000	54 U	56 U	54 U	57 U	56 U
3,3'-Dichlorobenzidine	NS	NS	38 U	40 U	39 U	41 U	40 U
2,4-Dinitrotoluene	NS	NS	52 U	55 U	53 U	56 U	54 U
2,6-Dinitrotoluene	NS	NS	140 U	140 U	140 U	150 U	140 U
Fluoranthene	100000	100000	4400	2700	68 J	68 J	59 U
Fluorene	30000	100000	170 J	90 J	59 U	62 U	3200
Hexachlorobenzene	330	1200	59 U	62 U	60 U	63 U	61 U
Hexachlorobutadiene	NS	NS	65 U	68 U	66 U	70 U	68 U
Hexachlorocyclopentadiene	NS	NS	49 U	51 U	49 U	52 U	51 U
Hexachloroethane	NS	NS	59 U	62 U	60 U	63 U	62 U
Indeno[1,2,3-cd]pyrene	500	500	**2100**	**1700**	61 U	65 U	63 U
Isophorone	NS	NS	70 U	74 U	71 U	75 U	73 U
2-Methylnaphthalene	NS	NS	63 U	66 U	63 U	67 U	65 U
Naphthalene	12000	100000	88 J	110 J	53 U	56 U	54 U
2-Nitroaniline	NS	NS	46 U	48 U	47 U	49 U	48 U
3-Nitroaniline	NS	NS	49 U	51 U	49 U	52 U	51 U
Nitrobenzene	NS	NS	63 U	66 U	64 U	67 U	65 U
N-Nitrosodi-n-propylamine	NS	NS	76 U	80 U	77 U	82 U	80 U
N-Nitrosodiphenylamine	NS	NS	62 U	65 U	62 U	66 U	64 U
Phenanthrene	100000	100000	2900	1500	63 J	82 J	2800
Pyrene	100000	100000	5200	3500	73 J	79 J	3000
1,2,4-Trichlorobenzene	NS	NS	55 U	57 U	55 U	58 U	57 U
4-Chloro-3-methylphenol	NS	NS	68 U	72 U	69 U	73 U	71 U
2-Chlorophenol	NS	NS	74 U	77 U	75 U	79 U	77 U
2-Methylphenol	330	100000	54 U	57 U	55 U	58 U	56 U
4-Methylphenol	330	100000	51 U	54 U	52 U	55 U	53 U
2,4-Dichlorophenol	NS	NS	71 U	74 U	72 U	76 U	74 U
2,4-Dimethylphenol	NS	NS	46 U	48 U	46 U	49 U	48 U
2,4-Dinitrophenol	NS	NS	220 U *	240 U *	230 U *	240 U *	230 U *
4,6-Dinitro-2-methylphenol	NS	NS	270 U	280 U	270 U	280 U	280 U
2-Nitrophenol	NS	NS	74 U	77 U	74 U	79 U	76 U
4-Nitrophenol	NS	NS	160 U	160 U	160 U	170 U	160 U
Pentachlorophenol	800	6700	24 U	25 U	24 U	26 U	25 U
Phenol	330	100000	41 U	43 U	41 U	44 U	43 U
2,4,5-Trichlorophenol	NS	NS	52 U	54 U	53 U	56 U	54 U
2,4,6-Trichlorophenol	NS	NS	50 U	52 U	51 U	54 U	52 U
Benzyl alcohol	NS	NS	71 U	74 U	72 U	76 U	74 U
4-Nitroaniline	NS	NS	51 U	54 U	52 U	55 U	54 U
2,2'-oxybis[1-chloropropane]	NS	NS	55 U	58 U	56 U	59 U	58 U

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Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives µg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives µg/Kg	B-20(1-3) 220-2995-5 10/5/2007 9:05 Solid 1 ug/Kg	B-21(2-3) 220-2995-6 10/5/2007 9:15 Solid 1 ug/Kg	B-22(4-5) 220-2937-1 10/1/2007 9:40 Solid 1 ug/Kg	B-22(8-9) 220-2937-2 10/1/2007 10:05 Solid 1 ug/Kg	B-24(4-5) 220-2995-9 10/5/2007 12:55 Solid 1 ug/Kg
GC/MS Semi VOA - 8270C							
Acenaphthene	20000	100000	62 U	65 U	63 U	76 J	83 U
Acenaphthylene	100000	100000	95 J	70 U	69 U	69 U	91 U
Anthracene	100000	100000	190 J	130 J	58 U M	190 J	77 U M
Benzo[a]anthracene	1000	1000	810	320 J	110 J	620	170 J
Benzo[a]pyrene	1000	1000	750	280 J	92 J	530	190 J
Benzo[b]fluoranthene	1000	1000	880	350 J	130 J	710	200 J
Benzo[g,h,i]perylene	100000	100000	560	180 J	71 U	430	180 J
Benzo[k]fluoranthene	800	3900	390	130 J	59 U M	270 J	83 J M
Bis(2-chloroethoxy)methane	NS	NS	57 U	60 U	59 U	59 U	77 U
Bis(2-chloroethyl)ether	NS	NS	170 U	180 U	180 U *	180 U *	230 U
Bis(2-ethylhexyl) phthalate	NS	NS	100 J	47 U	63 J	1100	1100
Butyl benzyl phthalate	NS	NS	49 U	52 U	51 U	51 U	67 U
Carbazole	NS	NS	75 J	65 J	62 U	98 J	81 U
Chrysene	1000	3900	880	330 J	100 J	620	180 J
Di-n-butyl phthalate	NS	NS	54 U	57 U	56 U	56 U	73 U
Di-n-octyl phthalate	NS	NS	56 U	58 U	57 U	57 U	75 U
4-Bromophenyl phenyl ether	NS	NS	57 U	60 U	59 U	59 U	77 U
4-Chloroaniline	NS	NS	47 U	49 U	48 U	49 U	64 U
2-Chloronaphthalene	NS	NS	61 U	64 U	63 U	63 U	83 U
4-Chlorophenyl phenyl ether	NS	NS	69 U	72 U	71 U	71 U	94 U
Dibenz(a,h)anthracene	330	330	130 J	56 U	55 U	280 J	72 U
Dibenzofuran	7000	59000	62 U	65 U	64 U	64 U	83 U
Diethyl phthalate	NS	NS	87 U	91 U	90 U	90 U	120 U
Dimethyl phthalate	NS	NS	62 U	65 U	64 U	64 U	84 U
1,2-Dichlorobenzene	1100	100000	56 U	58 U	57 U	58 U	75 U
1,3-Dichlorobenzene	2400	49000	57 U	59 U	58 U	59 U	77 U
1,4-Dichlorobenzene	1800	13000	55 U	58 U	57 U	57 U	74 U
3,3'-Dichlorobenzidine	NS	NS	39 U	41 U	40 U	41 U	53 U
2,4-Dinitrotoluene	NS	NS	54 U	56 U	55 U	55 U	72 U
2,6-Dinitrotoluene	NS	NS	140 U	150 U	140 U	140 U	190 U
Fluoranthene	100000	100000	1500	680	210 J	1400	310 J
Fluorene	30000	100000	60 U	63 U	62 U	77 J	81 U
Hexachlorobenzene	330	1200	61 U	64 U	63 U	63 U	82 U
Hexachlorobutadiene	NS	NS	67 U	70 U	69 U	69 U	91 U
Hexachlorocyclopentadiene	NS	NS	50 U *	52 U *	52 U	52 U	68 U *
Hexachloroethane	NS	NS	61 U	64 U	63 U	63 U	83 U
Indeno[1,2,3-cd]pyrene	500	500	**550**	190 J	73 J	480	180 J
Isophorone	NS	NS	72 U	76 U	74 U	75 U	98 U
2-Methylnaphthalene	NS	NS	65 U	68 U	67 U	67 U	87 U
Naphthalene	12000	100000	54 U	56 U	55 U	55 U	72 U
2-Nitroaniline	NS	NS	48 U	50 U	49 U	49 U	64 U
3-Nitroaniline	NS	NS	50 U	53 U	52 U	52 U	68 U
Nitrobenzene	NS	NS	65 U	68 U	67 U	67 U	88 U
N-Nitrosodi-n-propylamine	NS	NS	79 U	82 U	81 U	81 U	110 U
N-Nitrosodiphenylamine	NS	NS	64 U	67 U	65 U	66 U	86 U
Phenanthrene	100000	100000	960	610	110 J	950	220 J
Pyrene	100000	100000	1500	580	160 J	1100	260 J
1,2,4-Trichlorobenzene	NS	NS	56 U	59 U	58 U	58 U	76 U
4-Chloro-3-methylphenol	NS	NS	70 U	74 U	72 U	73 U	95 U
2-Chlorophenol	NS	NS	76 U	80 U	78 U	79 U	100 U
2-Methylphenol	330	100000	56 U	58 U	57 U	57 U	75 U
4-Methylphenol	330	100000	53 U	55 U	54 U	55 U	300 J
2,4-Dichlorophenol	NS	NS	73 U	77 U	75 U	76 U	99 U
2,4-Dimethylphenol	NS	NS	47 U	49 U	49 U	49 U	64 U
2,4-Dinitrophenol	NS	NS	230 U *	240 U *	240 U *	240 U *	310 U *
4,6-Dinitro-2-methylphenol	NS	NS	270 U *	290 U *	280 U *	280 U *	370 U *
2-Nitrophenol	NS	NS	76 U	79 U	78 U	78 U	100 U
4-Nitrophenol	NS	NS	160 U	170 U	160 U	170 U	220 U
Pentachlorophenol	800	6700	25 U	26 U	26 U	26 U	34 U
Phenol	330	100000	42 U	44 U	43 U	43 U	57 U
2,4,5-Trichlorophenol	NS	NS	54 U	56 U	55 U	55 U	72 U
2,4,6-Trichlorophenol	NS	NS	52 U	54 U	53 U	53 U	70 U
Benzyl alcohol	NS	NS	73 U	77 U	75 U	76 U	99 U
4-Nitroaniline	NS	NS	53 U	55 U	55 U	55 U	72 U
2,2'-oxybis[1-chloropropane]	NS	NS	57 U	60 U	59 U	59 U	77 U

Table 4
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Soil Sampling Results 2007
TAL Metals

Sample ID **Lab Sample Number** **Sampling Date** **Matrix** **Dilution Factor** **Units** **Metals**	**Part 375 Unrestricted Use Soil Cleanup Objectives mg/Kg mg/Kg**	**Part 375 Restricted Residential Use Soil Cleanup Objectives mg/Kg**	**B-1(1-3)** **220-2971-16** **10/3/2007 12:25** **Solid** **1** **mg/Kg**	**B-2(4-6)** **220-2971-17** **10/3/2007 13:20** **Solid** **1** **mg/Kg**	**B-3(3-5)** **220-2971-14** **10/3/2007 11:24** **Solid** **1** **mg/Kg**	**B-4(1-2)** **220-2937-6** **10/1/2007 11:50** **Solid** **1** **mg/Kg**	**B-4(6-7)** **220-2937-7** **10/1/2007 11:55** **Solid** **1** **mg/Kg**
Silver	2	180	0.4 U	0.42 U	0.45 U	0.38 U	0.32 U
Aluminum	NS	NS	7100	7660	4520	6220	3870
Arsenic	13	16	5.7 J	**37.6**	**41.5**	9.1 J	8.8
Barium	350	400	131	196	332	130	99.6
Beryllium	7.2	72	0.61 U	0.64 U	0.68 U	0.58 U	0.49 U
Calcium	NS	NS	5610	14000	10100	25000	4890
Cadmium	2.5	4.3	1.2 U	1.3 U	1.4 U	1.2 U	0.99 U
Cobalt	NS	NS	6.3	10.6	3.8	5.4	6.6
Chromium	30	180	15.5	12.9	13.8	14.9	11.7
Copper	50	270	31.8	**51.9**	**241**	33.4	38.9
Iron	NS	NS	19300	24400	12100	16600	20900
Potassium	NS	NS	967	1870	453	879	853
Magnesium	NS	NS	2240	2400	681	2080	1660
Manganese	1600	2000	234	98.3	54.7	238	172
Sodium	NS	NS	300	506	333	399	159 J
Nickel	30	310	16.2	20.6	12.9	16.6	17.6
Lead	63	400	**203**	**421**	**411**	**374**	**760**
Antimony	NS	NS	1.8 U	1.9 U	2.1 U	1.7 U	1.5 J
Selenium	3.9	180	2.2 U	3 J	3.9 J	2.1 U	1.8 U
Thallium	NS	NS	2.9 U	3.1 U	3.3 U	4.1 J	2.4 U
Vanadium	NS	NS	20.8	25.7	23.3	18.9	12.1
Zinc	109	10000	92.4	**1600**	**1190**	**151**	**226**
Mercury	0.18	0.81	**1.3**	**0.73**	**1.2**	**2**	**0.46**

Table 4
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Soil Sampling Results 2007
TAL Metals

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units Metals	Part 375 Unrestricted Use Soil Cleanup Objectives mg/Kg mg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives mg/Kg	B-5(1-2) 220-2937-8 10/1/2007 14:09 Solid 1 mg/Kg	B-5(5-6) 220-2937-9 10/1/2007 14:12 Solid 1 mg/Kg	B-6(1-2) 220-2937-10 10/1/2007 14:35 Solid 1 mg/Kg	B-6(5-6) 220-2937-11 10/1/2007 14:40 Solid 1 mg/Kg	B-7(1-2) 220-2995-1 10/5/2007 7:45 Solid 1 mg/Kg
Silver	2	180	0.34 U	0.64 J	0.35 U	0.75 J	0.48 U
Aluminum	NS	NS	10800	6810	9020	4950	4380
Arsenic	13	16	2.1 J	**13.7**	11.8	**26.1**	9.3 J
Barium	350	400	72.6	**610**	156	158	154
Beryllium	7.2	72	0.54 J	0.63 U	0.53 U	0.87 U	0.74 U
Calcium	NS	NS	1690	10000	13400	13100	80000
Cadmium	2.5	4.3	1 U	1.3 U	1.1 U	1.7 U	1.5 U
Cobalt	NS	NS	9.8	6	11.4	6.8	4
Chromium	30	180	**32.6**	25.5	19.8	18.7	9
Copper	50	270	36	**55.5**	**77.5**	37.1	37.6
Iron	NS	NS	19700	12900	26400	18700	14000
Potassium	NS	NS	1480	756	3480	673	908
Magnesium	NS	NS	3140	1660	3790	1730	1900
Manganese	1600	2000	400	146	333	225	141
Sodium	NS	NS	199 J	268 J	272	281 J	235 J
Nickel	30	310	19.1	19.3	23	18.3	9.5
Lead	63	400	23.3	**1670**	**3990**	**1850**	**603**
Antimony	NS	NS	1.6 U	1.9 U	2.4 J	2.6 U	2.2 U
Selenium	3.9	180	1.9 U	3.8 J	1.9 U	3.1 U	2.6 U
Thallium	NS	NS	3.5 J	5.6 J	3.2 J	4.2 U	3.5 U
Vanadium	NS	NS	30.7	29.7	26.7	17.4	14.1
Zinc	109	10000	49.5	**339**	**163**	**194**	**141**
Mercury	0.18	0.81	0.12	**8.9**	**4.3**	**4**	**16.5**

Table 4
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Soil Sampling Results 2007
TAL Metals

Sample ID **Lab Sample Number** **Sampling Date** **Matrix** **Dilution Factor** **Units** **Metals**	**Part 375 Unrestricted Use Soil Cleanup Objectives mg/Kg mg/Kg**	**Part 375 Restricted Residential Use Soil Cleanup Objectives mg/Kg**	**B-7(5-6)** **220-2995-2** **10/5/2007 7:50** **Solid** **1** **mg/Kg**	**B-8(1-2)** **220-2937-15** **10/1/2007 12:55** **Solid** **1** **mg/Kg**	**B-8(5-6)** **220-2937-14** **10/1/2007 13:00** **Solid** **1** **mg/Kg**	**B-9(1-2)** **220-2937-4** **10/1/2007 15:25** **Solid** **1** **mg/Kg**	**B-9(6-7)** **220-2937-5** **10/1/2007 15:30** **Solid** **1** **mg/Kg**
Silver	2	180	0.43 U	0.34 U	0.44 U	0.37 U	0.41 U
Aluminum	NS	NS	12000	4370	5900	9000	5890
Arsenic	13	16	11.6 J	6.6 J	7 J	8.8 J	6.7 J
Barium	350	400	**368**	178	188	180	83.3
Beryllium	7.2	72	0.75 J	0.52 U	0.68 U	0.57 U	0.63 U
Calcium	NS	NS	72700	13000	25900	25300	8840
Cadmium	2.5	4.3	1.3 U	1 U	1.4 U	1.1 U	1.3 U
Cobalt	NS	NS	7.6	4.9	4.8	7.8	6.8
Chromium	30	180	22.1	12.9	9.6	18.2	17
Copper	50	270	**55.6**	**91**	40.3	**69.8**	**63.4**
Iron	NS	NS	12000	19300	9350	18200	13400
Potassium	NS	NS	1030	804	473	2260	873
Magnesium	NS	NS	4150	1820	2180	3780	5030
Manganese	1600	2000	210	222	157	312	320
Sodium	NS	NS	600	276	341	879	140 J
Nickel	30	310	16	12.6	12.1	16.4	12.3
Lead	63	400	**503**	**262**	**238**	**340**	**86.8**
Antimony	NS	NS	2 U	1.6 U	2 U	1.7 U	1.9 U
Selenium	3.9	180	**4** J	1.9 U	2.4 U	2 U	2.2 U
Thallium	NS	NS	3.2 U	2.7 J	4.3 J	2.7 U	3.7 J
Vanadium	NS	NS	34.8	16.7	19.3	22.2	22.4
Zinc	109	10000	**157**	**141**	90.9	**185**	76.3
Mercury	0.18	0.81	**0.81**	**4**	**1**	**1.9**	**0.47**

Table 4
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TAL Metals

Sample ID **Lab Sample Number** **Sampling Date** **Matrix** **Dilution Factor** **Units** **Metals**	**Part 375 Unrestricted Use Soil Cleanup Objectives mg/Kg mg/Kg**	**Part 375 Restricted Residential Use Soil Cleanup Objectives mg/Kg**	**B-10(4-5)** **220-2995-3** **10/5/2007 8:40** **Solid** **1** **mg/Kg**	**B-10(6-7)** **220-2995-4** **10/5/2007 8:45** **Solid** **1** **mg/Kg**	**B-11(1-3)** **220-2971-12** **10/3/2007 9:30** **Solid** **1** **mg/Kg**	**B-11(4-6)** **220-2971-13** **10/3/2007 10:00** **Solid** **1** **mg/Kg**	**B-12(1-3)** **220-2971-10** **10/3/2007 8:30** **Solid** **1** **mg/Kg**
Silver	2	180	0.42 U	0.37 U	0.36 U	0.36 U	0.4 U
Aluminum	NS	NS	14800	6730	9510	9630	9780
Arsenic	13	16	3.4 J	2.8 J	1.7 U	2.2 J	4.6 J
Barium	350	400	194	70.3	53.3	62.6	86.9
Beryllium	7.2	72	0.64 U	0.56 U	0.72 J	0.56 U	0.61 U
Calcium	NS	NS	13800	8740	1270	1110	4470
Cadmium	2.5	4.3	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U
Cobalt	NS	NS	15.2	8.5	14.6	14.2	7.9
Chromium	30	180	**47.9**	15.4	**84**	**33.8**	17.5
Copper	50	270	37.3	36	13.9	12.3	25.7
Iron	NS	NS	24000	16800	17200	17800	18200
Potassium	NS	NS	7660	820	1080	578	3040
Magnesium	NS	NS	8190	3300	7760	4640	4080
Manganese	1600	2000	190	325	421	366	188
Sodium	NS	NS	315	118 J	433	152 J	759
Nickel	30	310	**31.9**	16.8	**165**	**115**	22.1
Lead	63	400	**239**	43.6	12	12.8	**95.7**
Antimony	NS	NS	1.9 U	1.7 U	1.7 U	1.7 U	1.8 U
Selenium	3.9	180	2.3 U	2 U	2 U	2 U	2.2 U
Thallium	NS	NS	3 U	2.7 U	2.7 U	2.7 U	2.9 U
Vanadium	NS	NS	37.2	23.1	16	16.5	23.6
Zinc	109	10000	**220**	50.4	42	40.3	78.7
Mercury	0.18	0.81	**0.45**	0.18	0.027 J	0.029 J	**0.47**

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TAL Metals

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units Metals	Part 375 Unrestricted Use Soil Cleanup Objectives mg/Kg mg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives mg/Kg	B-12(10-12) 220-2971-11 10/3/2007 9:00 Solid 1 mg/Kg	B-13(2-3) 220-2971-6 10/3/2007 12:50 Solid 1 mg/Kg	B-15(3-4) 220-2971-7 10/3/2007 13:20 Solid 1 mg/Kg	B-15(12-16) 220-2971-8 10/3/2007 13:25 Solid 1 mg/Kg	B-16(2-4) 220-2995-8 10/5/2007 12:20 Solid 1 mg/Kg
Silver	2	180	0.36 U	**2.2** J	0.33 U	1.7 J	0.38 U
Aluminum	NS	NS	11900	17800	7310	7170	5800
Arsenic	13	16	5.5 J	**38.9**	6.1 J	5.3 J	4.5 J
Barium	350	400	105	**3020**	122	**419**	181
Beryllium	7.2	72	0.61 J	0.58 U	0.51 U	0.65 U	0.59 U
Calcium	NS	NS	1280	9960	28500	6310	40300
Cadmium	2.5	4.3	1.1 U	**18.5**	1 U	1.3 U	1.2 U
Cobalt	NS	NS	8.9	9	6.3	6	5.7
Chromium	30	180	20.2	**56.2**	13.6	16.7	28.1
Copper	50	270	34.9	**1550**	32.6	27.5	**65.6**
Iron	NS	NS	18400	124000	14000	15200	28500
Potassium	NS	NS	1790	784	1700	794	1310
Magnesium	NS	NS	3700	1790	5370	3000	4500
Manganese	1600	2000	200	583	325	193	239
Sodium	NS	NS	146 J	462	328	207 J	333
Nickel	30	310	21.4	**51.5**	14	14.1	20.5
Lead	63	400	**100**	**4320**	**309**	**11800**	**408**
Antimony	NS	NS	1.7 U	19.3	1.5 U	2 U	1.8 U
Selenium	3.9	180	2.2 J	2.1 U	1.8 U	2.3 U	2.1 U
Thallium	NS	NS	2.7 U	4.3 J	2.4 U	3.1 U	2.8 U
Vanadium	NS	NS	28.5	26.4	22.7	16.8	14.9
Zinc	109	10000	**118**	**14000**	**172**	93.4	**567**
Mercury	0.18	0.81	**0.57**	**0.78**	**0.79**	**0.93**	**0.3**

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TAL Metals

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units Metals	Part 375 Unrestricted Use Soil Cleanup Objectives mg/Kg mg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives mg/Kg	B-17(2-3) 220-2971-1 10/3/2007 8:35 Solid 1 mg/Kg	B-18(1-2) 220-2971-2 10/2/2007 10:25 Solid 1 mg/Kg	B-18(16-17) 220-2971-3 10/2/2007 10:30 Solid 1 mg/Kg	B-19(2-3) 220-2971-4 10/3/2007 11:42 Solid 1 mg/Kg	B-19(19-20) 220-2971-5 10/2/2007 11:45 Solid 1 mg/Kg
Silver	2	180	0.31 J	0.35 U	0.36 U	0.31 U	0.3 U
Aluminum	NS	NS	3400	3540	7080	8780	13200
Arsenic	13	16	12.5	9.5	1.6 J	2.1 J	1.4 U
Barium	350	400	84.3	248	69.1	72.7	143
Beryllium	7.2	72	0.44 U	0.54 U	0.54 U	0.51 J	0.61 J
Calcium	NS	NS	12300	3780	5200	2260	1590
Cadmium	2.5	4.3	0.89 U	1.1 U	1.1 U	0.96 U	0.93 U
Cobalt	NS	NS	5	5.3	6.4	3.1	15.5
Chromium	30	180	20.8	16.4	16.5	**30.3**	19.6
Copper	50	270	**60.4**	**78.8**	16.2	14.4	31.7
Iron	NS	NS	9520	22700	13700	6820	19200
Potassium	NS	NS	585	668	1110	939	8270
Magnesium	NS	NS	2170	2190	2820	2190	9240
Manganese	1600	2000	234	288	255	67.7	218
Sodium	NS	NS	236	180 J	133 J	143 J	419
Nickel	30	310	17.4	16.3	20.7	17.2	**37.3**
Lead	63	400	**197**	**645**	34.9	9.2	5.1
Antimony	NS	NS	1.3 U	1.6 U	1.6 U	1.4 U	1.4 U
Selenium	3.9	180	1.6 U	1.9 U	1.9 U	1.7 U	1.7 U
Thallium	NS	NS	2.1 U	2.6 U	2.6 U	2.3 U	2.2 U
Vanadium	NS	NS	18.5	18	20.4	20	21.6
Zinc	109	10000	**180**	**319**	39.9	43.4	89.2
Mercury	0.18	0.81	**0.4**	**1.2**	**0.35**	0.013 U	0.013 U

Table 4
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TAL Metals

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units Metals	Part 375 Unrestricted Use Soil Cleanup Objectives mg/Kg mg/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives mg/Kg	B-20(1-3) 220-2995-5 10/5/2007 9:05 Solid 1 mg/Kg	B-21(2-3) 220-2995-6 10/5/2007 9:15 Solid 1 mg/Kg	B-22(4-5) 220-2937-1 10/1/2007 9:40 Solid 1 mg/Kg	B-22(8-9) 220-2937-2 10/1/2007 10:05 Solid 1 mg/Kg	B-24(4-5) 220-2995-9 10/5/2007 12:55 Solid 1 mg/Kg
Silver	2	180	0.4 U	0.3 U	0.38 U	0.41 U	0.49 U
Aluminum	NS	NS	5560	3270	6890	10900	8240
Arsenic	13	16	4 J	3.9 J	2.3 J	2.9 J	11.1 J
Barium	350	400	86.9	85.3	271	93.7	281
Beryllium	7.2	72	0.61 U	0.46 U	0.59 U	0.63 U	0.75 U
Calcium	NS	NS	63200	99700	48100	5870	20500
Cadmium	2.5	4.3	1.2 U	0.92 U	1.2 U	1.3 U	1.5 U
Cobalt	NS	NS	5	3.7	5.2	9.8	6.7
Chromium	30	180	11.6	9.3	**30.9**	19.7	15
Copper	50	270	46.1	34.8	30.2	25.9	33.3
Iron	NS	NS	9640	8120	14200	20400	41100
Potassium	NS	NS	1210	943	2460	2380	717
Magnesium	NS	NS	7720	2540	3880	4390	1530
Manganese	1600	2000	203	124	274	439	358
Sodium	NS	NS	1430	2060	858	211 J	493
Nickel	30	310	12	8	12.9	23	15.2
Lead	63	400	**130**	**280**	**132**	**107**	**404**
Antimony	NS	NS	1.8 U	1.4 U	1.8 U	1.9 U	2.2 U
Selenium	3.9	180	2.2 J	1.6 U	2.1 U	2.2 U	**4** J
Thallium	NS	NS	2.9 U	2.2 U	3.1 J	3.8 J	3.9 J
Vanadium	NS	NS	15.6	11.8	25.3	24.3	28.2
Zinc	109	10000	**126**	108	**456**	**196**	**114**
Mercury	0.18	0.81	**0.24**	**1.5**	**0.42**	**0.64**	**54.2**

Table 5
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Soil Sampling Results 2007
Pesticides

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives ug/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives ug/Kg	B-1(1-3) 220-2971-16 10/3/2007 12:25 Solid 1 ug/Kg	B-2(4-6) 220-2971-17 10/3/2007 13:20 Solid 1 ug/Kg	B-3(3-5) 220-2971-14 10/3/2007 11:24 Solid 1 ug/Kg	B-4(1-2) 220-2937-6 10/1/2007 11:50 Solid 1 ug/Kg	B-4(6-7) 220-2937-7 10/1/2007 11:55 Solid 1 ug/Kg
GC Semi VOA - 8081A							
4,4'-DDD	3.3	13000	**5.6** U	**9.5** U	3 U	2.2 U	**9.4** U
4,4'-DDE	3.3	8900	**6.3** U	**11** U	**3.4** U	2.5 U	**11** U
4,4'-DDT	3.3	7900	**4.5** U	**7.7** U	2.4 U	1.8 U	**7.7** U
Aldrin	5	97	**5.2** U	**8.9** U	2.8 U	2 U	**8.8** U
alpha-BHC	20	480	4 U	6.8 U	2.2 U	1.6 U	6.8 U
beta-BHC	36	360	10 J M	6.7 U	2.1 U	1.9 J	6.7 U
delta-BHC	40	100000	1.5 U	2.6 U	0.81 U	0.59 U	4.2 J M
Dieldrin	5	200	**8.6** J M	**8** U	2.5 U	1.8 U	**8** U
Endosulfan I	2400	4800	2.1 U	3.7 U	1.2 U	0.85 U	3.6 U
Endosulfan II	2400	4800	2.5 U	4.2 U	1.3 U	0.98 U	4.2 U
Endosulfan sulfate	2400	4800	2.5 U	4.3 U	1.4 U	1 U	4.3 U
Endrin	14	11000	13 U	**22** U	7 U	5.1 U	**22** U
Endrin aldehyde	NS	NS	4.7 U	10 J	2.5 U	1.9 U	8 U
Endrin ketone	NS	NS	2.1 U	3.6 U	1.1 U	0.83 U	3.6 U
gamma-BHC (Lindane)	100	1300	2.2 U	3.8 U	1.2 U	0.88 U	3.8 U
Heptachlor	42	2100	2.2 U	3.7 U	1.2 U	0.86 U	3.7 U
Heptachlor epoxide	NS	NS	1.7 U	2.8 U	0.89 U	0.66 U	2.8 U
Methoxychlor	NS	NS	31 U	53 U	17 U	12 U	52 U
Toxaphene	NS	NS	26 U	44 U	14 U	10 U	43 U
alpha-Chlordane	94	4200	1.6 U	2.7 U	0.86 U	0.63 U	2.7 U
gamma-Chlordane	NS	NS	9 J M	2.3 U	1.1 J	2.5 J M	6.3 J
GC Semi VOA - 8082	100 (total)	1000 (total)					
PCB-1016			4.1 U	3.5 U	4.4 U	3.3 U	3.5 U
PCB-1221			2.2 U	1.9 U	2.4 U	1.8 U	1.9 U
PCB-1232			2.7 U	2.3 U	2.9 U	2.2 U	2.3 U
PCB-1242			4.4 U	3.7 U	4.7 U	3.5 U	3.7 U
PCB-1248			3.9 U	3.3 U	4.2 U	40 M	3.3 U
PCB-1254			1.8 U	1.5 U	1.9 U	200 M B	29 M
PCB-1260			5.8 U	5 U	6.3 U	220 M	26 M
Total PCB			ND	ND	ND	**460**	55

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Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives ug/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives ug/Kg	B-5(1-2) 220-2937-8 10/1/2007 14:09 Solid 1 ug/Kg	B-5(5-6) 220-2937-9 10/1/2007 14:12 Solid 1 ug/Kg	B-6(1-2) 220-2937-10 10/1/2007 14:35 Solid 1 ug/Kg	B-6(5-6) 220-2937-11 10/1/2007 14:40 Solid 1 ug/Kg	B-7(1-2) 220-2995-1 10/5/2007 7:45 Solid 1 ug/Kg
GC Semi VOA - 8081A							
4,4'-DDD	3.3	13000	0.43 U	0.58 U	2.2 J M	3 U	0.55 U
4,4'-DDE	3.3	8900	0.49 U	0.92 J M	2.4 J M	**3.4** U	0.63 U
4,4'-DDT	3.3	7900	0.35 U	1.7 J	**4.9** M	2.4 U	0.45 U
Aldrin	5	97	0.4 U	0.55 U	0.42 U	2.8 U	0.51 U
alpha-BHC	20	480	0.31 U	0.42 U	0.32 U	2.1 U	0.4 U
beta-BHC	36	360	0.3 U	0.82 J M	0.97 J M	2.1 U	0.4 J
delta-BHC	40	100000	0.12 U	0.22 J M	0.12 U	0.8 U	0.15 U
Dieldrin	5	200	0.36 U	1.1 J	2.2 J M	2.5 U	0.46 U M
Endosulfan I	2400	4800	0.17 U	0.37 J	0.77 J M	1.1 U	0.21 U
Endosulfan II	2400	4800	0.19 U	0.5 J	1.3 J M	1.3 U	0.25 U
Endosulfan sulfate	2400	4800	0.44 J	0.69 J	0.2 U	1.3 U	0.25 U
Endrin	14	11000	1 U	1.4 U	1 U	6.9 U	1.3 U
Endrin aldehyde	NS	NS	0.36 U	0.71 J	7.5 M	2.5 U	0.47 U
Endrin ketone	NS	NS	0.19 J	0.22 U	0.17 U	1.1 U	0.21 U
gamma-BHC (Lindane)	100	1300	0.17 U	0.23 U	0.18 U	1.2 U	0.22 U
Heptachlor	42	2100	0.17 U	0.23 U	0.18 U	1.2 U	0.22 U
Heptachlor epoxide	NS	NS	0.13 U	0.17 U	0.94 J M	0.89 U	0.16 U
Methoxychlor	NS	NS	2.4 U	3.2 U	2.5 U	16 U	3.1 U
Toxaphene	NS	NS	2 U	2.7 U	2 U	14 U	2.5 U
alpha-Chlordane	94	4200	0.12 U	1.3 J M	0.13 U	0.86 U	0.16 U
gamma-Chlordane	NS	NS	0.36 J M	0.83 J M	2.1 M	1.9 J	0.13 U
GC Semi VOA - 8082	100 (total)	1000 (total)					
PCB-1016			3.2 U	4.3 U	3.3 U	4.4 U	4 U
PCB-1221			1.7 U	2.3 U	1.8 U	2.4 U	2.2 U
PCB-1232			2.1 U	2.9 U	2.2 U	2.9 U	2.7 U
PCB-1242			3.4 U	4.6 U	3.5 U	4.7 U	4.3 U
PCB-1248			3 U	29 M	3.1 U	4.2 U	3.9 U
PCB-1254			1.4 U	48 M	26 M	8.5 J M	1.7 U
PCB-1260			4.5 U	60 M	25 M	11 J M	5.7 U
Total PCB			ND	**137**	51	19.5	ND

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Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives ug/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives ug/Kg	B-7(5-6) 220-2995-2 10/5/2007 7:50 Solid 1 ug/Kg	B-8(1-2) 220-2937-15 10/1/2007 12:55 Solid 1 ug/Kg	B-8(5-6) 220-2937-14 10/1/2007 13:00 Solid 1 ug/Kg	B-9(1-2) 220-2937-4 10/1/2007 15:25 Solid 1 ug/Kg	B-9(6-7) 220-2937-5 10/1/2007 15:30 Solid 1 ug/Kg
GC Semi VOA - 8081A							
4,4'-DDD	3.3	13000	0.56 U	**10** U	2.7 U	1.6 J M	**4.7** U
4,4'-DDE	3.3	8900	0.64 U	**12** U	3 U	0.5 U	**5.3** U
4,4'-DDT	3.3	7900	0.45 U	**8.2** U	2.2 U	0.36 U	**3.8** U
Aldrin	5	97	0.52 U	**9.5** U	2.5 U	0.41 U	4.4 U
alpha-BHC	20	480	0.55 J M	7.3 U	1.9 U	0.32 U	3.4 U
beta-BHC	36	360	2.8 M	7.2 U	2.8 J M	0.31 U	3.3 U
delta-BHC	40	100000	0.16 J M	2.7 U	1.4 J M	0.12 U	1.3 U
Dieldrin	5	200	0.47 U	**8.5** U	2.3 U	0.37 U	3.9 U
Endosulfan I	2400	4800	0.22 U	3.9 U	1 U	0.17 U	1.8 U
Endosulfan II	2400	4800	0.25 U	4.5 U	1.2 U	0.75 J M	2.1 U
Endosulfan sulfate	2400	4800	0.25 U	4.6 U	1.2 U	1.1 J M	2.1 U
Endrin	14	11000	1.3 U	**24** U	6.2 U	1 U	11 U
Endrin aldehyde	NS	NS	0.48 U	13 J	2.3 U	3.1 J M	4 U
Endrin ketone	NS	NS	0.21 U	3.8 U	1 U	0.17 U	1.8 U
gamma-BHC (Lindane)	100	1300	1.3 J M	4 U	1.1 U	0.18 U	1.9 U
Heptachlor	42	2100	0.47 J	4 U	1.1 U	0.17 U	1.8 U
Heptachlor epoxide	NS	NS	0.17 U	3 U	0.8 U	0.13 U	1.4 U
Methoxychlor	NS	NS	3.1 U	56 U	15 U	7.4 J M	26 U
Toxaphene	NS	NS	2.6 U	47 U	12 U	2 U	22 U
alpha-Chlordane	94	4200	0.16 U	2.9 U	0.77 U	0.13 U	1.4 U
gamma-Chlordane	NS	NS	1.4 J	11 J	0.67 J	1.4 J M	1.1 U
GC Semi VOA - 8082	100 (total)	1000 (total)					
PCB-1016			4.1 U	3.7 U	3.9 U	3.3 U	3.5 U
PCB-1221			2.2 U	2 U	2.1 U	1.8 U	1.9 U
PCB-1232			2.7 U	2.5 U	2.6 U	2.2 U	2.3 U
PCB-1242			4.4 U	4 U	4.2 U	3.5 U	3.7 U
PCB-1248			4 U	3.6 U	3.8 U	3.1 U	3.3 U
PCB-1254			1.8 U	1.6 U	13 J M	1.4 U	78 M
PCB-1260			5.9 U	5.3 U	5.6 U	4.6 U	4.9 U
Total PCB			ND	ND	13	ND	78

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Sample ID **Lab Sample Number** **Sampling Date** **Matrix** **Dilution Factor** **Units**	**Part 375 Unrestricted Use Soil Cleanup Objectives ug/Kg**	**Part 375 Restricted Residential Use Soil Cleanup Objectives ug/Kg**	**B-10(4-5)** **220-2995-3** **10/5/2007 8:40** **Solid** **1** **ug/Kg**	**B-10(6-7)** **220-2995-4** **10/5/2007 8:45** **Solid** **1** **ug/Kg**	**B-11(1-3)** **220-2971-12** **10/3/2007 9:30** **Solid** **1** **ug/Kg**	**B-11(4-6)** **220-2971-13** **10/3/2007 10:00** **Solid** **1** **ug/Kg**	**B-12(1-3)** **220-2971-10** **10/3/2007 8:30** **Solid** **1** **ug/Kg**
GC Semi VOA - 8081A							
4,4'-DDD	3.3	13000	0.43 U	0.42 U	1.2 J M	**6.3** M	0.41 U
4,4'-DDE	3.3	8900	**4.2** M	0.48 U	0.48 U	**6.6** M	0.47 U
4,4'-DDT	3.3	7900	0.35 U	**8.5**	2.3 J M	**21** M	0.33 U
Aldrin	5	97	0.41 U	0.4 U	0.39 U	0.41 U	0.38 U
alpha-BHC	20	480	0.31 U	0.81 J M	0.3 U	18 M	0.3 U
beta-BHC	36	360	0.31 U	0.3 U	0.68 J M	4 M	0.29 U
delta-BHC	40	100000	0.12 U	0.29 J M	0.11 U	2.4 M	0.11 U
Dieldrin	5	200	3.3 J	1.9 J	3 J M	**5.7** M	0.35 U
Endosulfan I	2400	4800	0.27 J	0.16 U	0.74 J M	6.2 M	0.16 U
Endosulfan II	2400	4800	0.19 U	0.19 U	0.19 U	4.4 M	0.18 U
Endosulfan sulfate	2400	4800	0.2 U	0.19 U	0.19 U	1.1 J M	0.25 J M
Endrin	14	11000	1.1 J	1.5 J	2.1 J M	11 M	0.96 U
Endrin aldehyde	NS	NS	0.85 J M	0.42 J	0.36 U	0.38 U	0.35 U
Endrin ketone	NS	NS	0.16 U	0.7 J	0.16 U	0.17 U	0.16 U
gamma-BHC (Lindane)	100	1300	0.17 U	0.17 U	0.17 U	11 M	0.16 U
Heptachlor	42	2100	0.17 U	0.17 U	0.17 U	1 J M	0.16 U
Heptachlor epoxide	NS	NS	0.93 J	0.13 U	0.34 J M	6.7 M	0.12 U
Methoxychlor	NS	NS	2.4 U	2.4 U	2.3 U	7.5 J M	2.3 U
Toxaphene	NS	NS	2 U	1.9 U	1.9 U	2 U	1.9 U
alpha-Chlordane	94	4200	0.13 U	0.12 U	1.1 J M	7.6 M	1.5 J M
gamma-Chlordane	NS	NS	1.6 J	1.2 J M	1.2 J M	14 M	1.6 J
GC Semi VOA - 8082	100 (total)	1000 (total)					
PCB-1016			6.4 U	3.1 U	3.1 U	3.3 U	3 U
PCB-1221			3.5 U	1.7 U	1.7 U	1.8 U	1.7 U
PCB-1232			4.2 U	2.1 U	2.1 U	2.2 U	2 U
PCB-1242			6.8 U	3.3 U	3.3 U	3.5 U	3.2 U
PCB-1248			6.1 U	65 M	3 U	3.1 U	2.9 U
PCB-1254			320 M	140 M	1.3 U	1.4 U	1.3 U
PCB-1260			9 U	40 M	4.4 U	4.6 U	4.3 U
Total PCB			**320**	**245**	ND	ND	ND

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Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives ug/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives ug/Kg	B-12(10-12) 220-2971-11 10/3/2007 9:00 Solid 1 ug/Kg	B-13(2-3) 220-2971-6 10/3/2007 12:50 Solid 1 ug/Kg	B-15(3-4) 220-2971-7 10/3/2007 13:20 Solid 1 ug/Kg	B-15(12-16) 220-2971-8 10/3/2007 13:25 Solid 1 ug/Kg	B-16(2-4) 220-2995-8 10/5/2007 12:20 Solid 1 ug/Kg
GC Semi VOA - 8081A							
4,4'-DDD	3.3	13000	0.44 U	0.42 U	**23** M	0.44 U	0.43 U
4,4'-DDE	3.3	8900	0.5 U	0.48 U	**6** M	0.5 U	0.49 U
4,4'-DDT	3.3	7900	0.41 J	0.34 U	**6.5** M	1.5 J M	0.6 J M
Aldrin	5	97	0.41 U	0.4 U	0.42 U	0.41 U	0.4 U
alpha-BHC	20	480	0.32 U	0.31 U	6.1	0.31 U	0.31 U
beta-BHC	36	360	0.31 U	3.6 M	0.32 U	0.31 U	0.3 U
delta-BHC	40	100000	0.12 U	0.11 U	2.6 M	0.6 J M	0.12 U
Dieldrin	5	200	0.37 U	2.7 J M	0.38 U	0.37 U	0.36 U
Endosulfan I	2400	4800	0.17 U	4.1 M	2.3 M	0.17 U	0.16 U
Endosulfan II	2400	4800	0.2 U	4.2	1.9 J M	0.19 U	0.19 U
Endosulfan sulfate	2400	4800	0.2 U	0.19 U	8.2 M	0.2 U	0.19 U
Endrin	14	11000	1 U	2.6 J M	1 U	1 U	1 U
Endrin aldehyde	NS	NS	0.37 U	0.36 U	31 M	0.72 J M	0.36 U
Endrin ketone	NS	NS	0.17 U	0.16 U	0.17 U	0.16 U	0.16 U
gamma-BHC (Lindane)	100	1300	0.18 U	0.17 U	0.18 U	0.17 U	0.17 U
Heptachlor	42	2100	0.17 U	0.48 J M	5.1 M	0.17 U	0.17 U
Heptachlor epoxide	NS	NS	0.13 U	5.5 M	0.13 U	0.13 U	0.13 U
Methoxychlor	NS	NS	2.4 U	2.3 U	2.5 U	2.4 U	2.4 U
Toxaphene	NS	NS	2 U	1.9 U	2.1 U	2 U	2 U
alpha-Chlordane	94	4200	0.13 U	0.12 U	0.13 U	0.13 U	0.12 U
gamma-Chlordane	NS	NS	0.1 U	0.1 U	19 M	0.34 J M	0.1 U
GC Semi VOA - 8082	100 (total)	1000 (total)					
PCB-1016			3.2 U	3.1 U	3.3 U	3.2 U	3.1 U
PCB-1221			1.8 U	1.7 U	1.8 U	1.7 U	1.7 U
PCB-1232			2.1 U	2.1 U	2.2 U	2.1 U	2.1 U
PCB-1242			3.4 U	3.3 U	3.5 U	3.4 U	3.3 U
PCB-1248			3.1 U	3 U	3.2 U	3.1 U	3 U
PCB-1254			1.4 U	1.7 J M	1.4 U	1.4 U	2.8 J
PCB-1260			4.6 U	4.4 U	4.7 U	4.6 U	4.4 U
Total PCB			ND	1.7	ND	ND	2.8

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Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	Part 375 Unrestricted Use Soil Cleanup Objectives ug/Kg	Part 375 Restricted Residential Use Soil Cleanup Objectives ug/Kg	B-17(2-3) 220-2971-1 10/3/2007 8:35 Solid 1 ug/Kg	B-18(1-2) 220-2971-2 10/2/2007 10:25 Solid 1 ug/Kg	B-18(16-17) 220-2971-3 10/2/2007 10:30 Solid 1 ug/Kg	B-19(2-3) 220-2971-4 10/3/2007 11:42 Solid 1 ug/Kg	B-19(19-20) 220-2971-5 10/2/2007 11:45 Solid 1 ug/Kg
GC Semi VOA - 8081A							
4,4'-DDD	3.3	13000	0.41 U	0.41 U	0.41 U	0.42 U	2 U
4,4'-DDE	3.3	8900	0.47 U	0.47 U	0.46 U	0.48 U	2.3 U
4,4'-DDT	3.3	7900	1.7 J M	3.1 J M	0.33 U	0.34 U	1.7 U
Aldrin	5	97	0.39 U	0.39 U	0.38 U	0.4 U	1.9 U
alpha-BHC	20	480	0.3 U	0.3 U	0.29 U	0.31 U	1.5 U
beta-BHC	36	360	0.29 U	0.29 U	0.29 U	0.3 U	1.4 U
delta-BHC	40	100000	0.11 U	0.13 J	0.11 U	0.11 U	0.55 U
Dieldrin	5	200	0.35 U	0.35 U	0.34 U	0.36 U	1.7 U
Endosulfan I	2400	4800	0.38 J	0.16 U	0.16 U	0.16 U	0.79 U
Endosulfan II	2400	4800	0.81 J M	0.18 U	0.18 U	0.19 U	0.91 U
Endosulfan sulfate	2400	4800	0.19 U	11 M	0.19 U	0.19 U	0.93 U
Endrin	14	11000	0.96 U	0.96 U	0.95 U	0.99 U	4.8 U
Endrin aldehyde	NS	NS	0.35 U	0.35 U	0.35 U	0.36 U	1.7 U
Endrin ketone	NS	NS	0.16 U	0.16 U	0.15 U	0.16 U	0.77 U
gamma-BHC (Lindane)	100	1300	0.16 U	0.16 U	0.16 U	0.17 U	0.82 U
Heptachlor	42	2100	0.2 J	0.16 U	0.16 U	0.17 U	0.81 U
Heptachlor epoxide	NS	NS	1.2 J M	0.12 U	0.12 U	0.13 U	0.61 U
Methoxychlor	NS	NS	2.3 U	2.3 U	2.3 U	2.4 U	11 U
Toxaphene	NS	NS	1.9 U	1.9 U	1.9 U	1.9 U	9.4 U
alpha-Chlordane	94	4200	0.12 U	0.12 U	0.12 U	0.12 U	0.59 U
gamma-Chlordane	NS	NS	0.31 J M	0.44 J M	0.097 U	0.11 J	0.49 U
GC Semi VOA - 8082	100 (total)	1000 (total)					
PCB-1016			3 U	3 U	3 U	3.1 U	3 U
PCB-1221			1.7 U	1.7 U	1.6 U	1.7 U	1.6 U
PCB-1232			2 U	2 U	2 U	2.1 U	2 U
PCB-1242			3.2 U	3.2 U	3.2 U	3.3 U	3.2 U
PCB-1248			2.9 U	2.9 U	2.9 U	3 U	2.9 U
PCB-1254			1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
PCB-1260			4.3 U M	4.3 U	4.3 U	4.4 U	4.3 U
Total PCB			4.3	ND	ND	ND	ND

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Sample ID	**Part 375 Unrestricted Use Soil Cleanup Objectives ug/Kg**	**Part 375 Restricted Residential Use Soil Cleanup Objectives ug/Kg**	**B-20(1-3)**	**B-21(2-3)**	**B-22(4-5)**	**B-22(8-9)**	**B-24(4-5)**
Lab Sample Number			**220-2995-5**	**220-2995-6**	**220-2937-1**	**220-2937-2**	**220-2995-9**
Sampling Date			**10/5/2007 9:05**	**10/5/2007 9:15**	**10/1/2007 9:40**	**10/1/2007 10:05**	**10/5/2007 12:55**
Matrix			**Solid**	**Solid**	**Solid**	**Solid**	**Solid**
Dilution Factor			**1**	**1**	**1**	**1**	**1**
Units			**ug/Kg**	**ug/Kg**	**ug/Kg**	**ug/Kg**	**ug/Kg**
GC Semi VOA - 8081A							
4,4'-DDD	3.3	13000	0.41 U	0.43 U	**4.3** U	0.42 U	**11** U
4,4'-DDE	3.3	8900	0.47 U	0.48 U	**4.9** U	1.3 J	**13** U
4,4'-DDT	3.3	7900	1.9 J M	1.1 J	**3.5** U	**6.1** M	**9** U
Aldrin	5	97	0.39 U	0.4 U	4 U	0.39 U	**10** U
alpha-BHC	20	480	0.3 U	0.31 U	3.1 U	0.3 U	8 U
beta-BHC	36	360	0.29 U	0.3 U	21 M	0.3 U	7.9 U M
delta-BHC	40	100000	0.11 U	0.12 U	1.2 U	0.11 U	3 U
Dieldrin	5	200	0.35 U	0.36 U	3.6 U	4.8 M	**9.4** U
Endosulfan I	2400	4800	0.16 U	0.16 U	1.7 U	0.16 U	4.3 U
Endosulfan II	2400	4800	0.18 U	0.19 U	1.9 U	0.46 J M	5 U
Endosulfan sulfate	2400	4800	0.19 U	0.19 U	1.9 U	0.19 U	5.1 U
Endrin	14	11000	0.96 U	0.99 U	10 U	0.99 U	**26** U
Endrin aldehyde	NS	NS	2.1 J M	0.36 U	5.1 J	0.36 U	9.4 U
Endrin ketone	NS	NS	0.16 U	0.16 U	1.6 U	0.16 U	4.2 U
gamma-BHC (Lindane)	100	1300	0.16 U	0.17 U	1.7 U	0.17 U	4.4 U
Heptachlor	42	2100	0.57 J M	0.17 U	1.7 U	0.17 U	4.4 U
Heptachlor epoxide	NS	NS	0.12 U	0.13 U	1.3 U	0.27 J M	3.3 U
Methoxychlor	NS	NS	2.3 U	2.4 U	24 U	2.3 U	62 U
Toxaphene	NS	NS	1.9 U	2 U	20 U	1.9 U	51 U
alpha-Chlordane	94	4200	0.12 U	0.12 U	1.2 U	0.12 U	3.2 U
gamma-Chlordane	NS	NS	0.099 U	0.1 U	1.7 J M	0.46 J M	2.7 U
GC Semi VOA - 8082	100 (total)	1000 (total)					
PCB-1016			3 U	3.1 U	3.2 U	3.1 U	4.1 U
PCB-1221			1.7 U	1.7 U	1.7 U	1.7 U	2.2 U
PCB-1232			2 U	2.1 U	2.1 U	2.1 U	2.7 U
PCB-1242			3.2 U	3.3 U	3.4 U	3.3 U	4.3 U
PCB-1248			2.9 U	3 U	3 U	3 U	3.9 U
PCB-1254			1.3 U	1.3 U	1.4 U	1.3 U	1.8 U
PCB-1260			4.3 U	4.4 U	4.5 U	4.4 U	5.8 U
Total PCB			ND	ND	ND	ND	ND

Tables 2-5
606 West 57th Street
New York, New York
Soil Sampling Results
Notes

GENERAL

NS : No cleanup objective listed.

ND : No Detect

U : The analyte was not detected at the indicated concentration.

SB : Site Background

J : The concentration given is an estimated value.

M : Concentration calculated using manual integration.

UJ : The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R : The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
(Letters in bold indicate updated qualifiers based on the data usability report provided by Environmental Data Services Inc.)

Exceedences of Unrestricted Use Soil Cleanup Objectives are highlighted in bold font.
Exceedences of Restricted Residential Use Soil Cleanup Objectives are shaded in gray.

SOIL

Part 375 Soil Cleanup Objectives : Soil Clean-up Objectives listed in NYSDEC (New York State Department of Environmental Conservation) "Part 375" Regulations (6 NYCRR Part 375).

µg/kg : micrograms per kilogram = parts per billion (ppb)

mg/kg : milligrams per kilogram = parts per million (ppm)

B : Result is less than the reporting CRDL/reporting limit, but greater than or equal to the instrument detection limit/method detection limit.

H : Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.

Metals

N : MS/MSD spike recovery exceeds control limits.
* = Surrogate, lab control sample or lab control sample duplicate exceeds control limits
* = Lab control sample or lab control sample duplicate exceeds control limits
**** = Background levels for lead vary widely from 4-61 ppm (rural) to 200-500 ppm (urban)

Table 6
606 West 57th Street
New York, New York
Soil Sampling Results 2008
Volatile Organic Compounds

Sample ID	Part 375 Unrestricted Use Soil Cleanup Objectives	Part 375 Restricted Residential Use Soil Cleanup Objectives	B-101(15-18)		B-102(17-18)		B-103(20-22)		B-104(16-18)		FB		TRIP BLANK	
Lab Sample Number			220-3878-1		220-3878-2		220-3878-3		220-3878-4		220-3878-5		220-3878-6	
Sampling Date			1/7/2008 11:00		1/7/2008 14:25		1/8/2008 11:35		1/8/2008 14:35		1/9/2008 15:25		1/9/2008 0:00	
Matrix			Solid		Solid		Solid		Solid		Water		Water	
Dilution Factor			1		1		1		1		1		1	
Units	µg/Kg	µg/Kg	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/L		ug/L	
Benzene	60	4800	0.79	U	0.84	U	0.77	U	0.8	U	0.23	U	0.23	U
Bromodichloromethane	NS	NS	0.72	U	0.77	U	0.7	U	0.73	U	NR		NR	
Bromomethane	NS	NS	1.7	U	1.8	U	1.6	U	1.7	U	NR		NR	
Carbon disulfide	NS	NS	0.88	J	0.63	U	0.57	U	0.6	U	NR		NR	
Chlorobenzene	1100	100000	0.98	U	1	U	0.95	U	0.99	U	NR		NR	
Chloroform	370	49000	0.59	U	0.63	U	0.57	U	0.6	U	NR		NR	
Dibromochloromethane	NS	NS	1.2	U	1.3	U	1.2	U	1.2	U	NR		NR	
1,2-Dichloroethane	20	3100	1.2	U	1.3	U	1.2	U	1.2	U	NR		NR	
Ethylbenzene	1000	41000	0.79	U	1	J	0.77	U	0.8	U	0.28	U	0.28	U
Toluene	700	100000	0.99	J B	2.5	J B	2	J B	1.3	J B	0.31	J	0.24	J
m&p-Xylene	260	100000	1.7	U	1.8	U	1.7	U	1.7	U	0.34	U	0.34	U
o-Xylene	260	100000	1	U	3	J	1	U	1.1	U	0.15	U	0.15	U
n-Butylbenzene	12000	100000	1.1	U	160		1.1	U	1.1	U	0.43	U	0.43	U
1,2,4-Trimethylbenzene	3600	52000	1.5	U	1.6	U	1.5	U	1.6	U	0.14	U	0.14	U
Naphthalene	12000	100000	0.65	U	0.7	U	0.64	U	0.66	U	1.6	U	1.6	U
sec-Butylbenzene	11000	100000	1.3	U	200		1.3	U	1.4	U	0.28	U	0.28	U
Isopropylbenzene	NS	NS	0.83	U	95		0.81	U	0.85	U	0.21	U	0.21	U
N-Propylbenzene	3900	100000	0.82	U	240	E	0.8	U	0.83	U	0.21	U	0.21	U
4-Isopropyltoluene	NS	NS	1.2	U	1.3	U	1.2	U	1.3	U	0.26	U	0.26	U
1,3,5-Trimethylbenzene	8400	52000	1.1	U	1.1	U	1	U	1.1	U	0.21	U	0.21	U
tert-Butylbenzene	5900	100000	0.68	U	4.9	J	0.66	U	0.69	U	0.18	U	0.18	U
Methyl tert-butyl ether	930	100000	0.82	U	0.88	U	0.8	U	0.83	U	0.17	U	0.17	U

Notes:
ug/kg = parts per billion (ppb)
NS = No Standard
U = Analyzed but not detected
J = Result is an estimate
B = Contaminant found in blank
* = As per TAGM 4046 individual and the sum of VOCs not listed standard is less than or equal to 10,000 ppb.
NR = Not Analyzed

Table 7
606 West 57th Street
New York, New York
Soil Sampling Results 2008
Semi-Volatile Organic Compounds

Sample ID	Part 375	Part 375	B-101(15-18)		B-102(17-18)		B-103(20-22)		B-104(16-18)		FB	
Lab Sample Number	Unrestricted	Restricted	220-3878-1		220-3878-2		220-3878-3		220-3878-4		220-3878-5	
Sampling Date	Use	Residential	1/7/2008 11:00		1/7/2008 14:25		1/8/2008 11:35		1/8/2008 14:35		1/9/2008 15:25	
Matrix	Soil Cleanup	Use	Solid		Solid		Solid		Solid		Water	
Dilution Factor	Objectives	Soil Cleanup	1		1		1		2		1	
		Objectives										
Units	µg/Kg	µg/Kg	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/L	
Naphthalene	12000	100000	58	J	230	J	54	U	130	J	0.49	U
Acenaphthene	20000	100000	140	J	660		62	U	150	J	0.37	U
Fluorene	30000	100000	140	J	860		61	U	130	U	0.37	U
Phenanthrene	100000	100000	1100		2700		58	U	1600		0.3	U
Anthracene	100000	100000	290	J	680		57	U	420	J	0.34	U
Fluoranthene	100000	100000	1200		2100		100	J	3600		0.55	U
Pyrene	100000	100000	1300		1800		120	J	3300		0.43	U
Benzo[a]anthracene	1000	1000	580		1000		66	J	2100		0.47	U
Chrysene	1000	3900	600		990		67	J	2200		0.42	U
Benzo[b]fluoranthene	1000	1000	640		850		81	J	2400		0.48	U
Benzo[k]fluoranthene	800	3900	230	J	360	J	58	U M	900		0.31	U
Benzo[a]pyrene	1000	1000	490		810		68	J	2100		0.34	U
Indeno[1,2,3-cd]pyrene	500	500	330	J	580		63	U	1700		0.54	U
Dibenz(a,h)anthracene	330	330	79	J	170	J	54	U	340	J M	0.41	U
Benzo[g,h,i]perylene	100000	100000	310	J	490		69	U	1500		0.42	U

Notes:
ug/kg = parts per billion (ppb)
NS = No Standard
U = Analyzed but not detected
J = Result is an estimate
B = Contaminant found in blank

Table 8
606 West 57th Street
New York, NY
Soil Endpoint Analytical Results
Volatile and Semivolatile Organic Compounds

Client ID Lab Sample ID Date Sampled Dilution VOCs - mg/kg	NYSDEC Part 375 Unrestricted SCO mg/kg	NYSDEC Part 375 Restricted Residential SCO mg/kg	EP-SW-SOUTH (7.5') L1315770-01 8/14/2013 2/100*	EP-SW-EAST (7.5') L1315913-01 8/15/2013 10	EP-SW-WEST (7.5') L1315913-02 8/15/2013 10	EP-SW-NORTH (7.5') L1315913-03 8/15/2013 10
1,2,4-Trimethylbenzene	3.6	52	79	3.9	1.4 J	14
1,3,5-Trimethylbenzene	8.4	52	24	3.2 U	3.1 U	3.3 U
Benzene	0.06	4.8	0.13 J	0.65 U	0.61 U	0.66 U
Ethylbenzene	1	41	9.1	2	0.61 U	0.65 J
Isopropylbenzene	NS	NS	4.8	2.3	1.4	1.2
Methyl tert butyl ether	0.93	100	0.28 U	1.3 U	1.2 U	1.3 U
n-Butylbenzene	12	100	14	7.9	4.6	2.9
n-Propylbenzene	3.9	100	2.8	6	3.9	3
o-Xylene	0.26	100	2	0.22 J	1.2 U	1.3 U
p/m-Xylene	0.26	100	21	0.49 J	1.2 U	1.3 U
p-Isopropyltoluene	12000	NS	6.5	1.4	0.61 U	0.74
sec-Butylbenzene	11	100	8.2	6.1	3.2	2.3
tert-Butylbenzene	5.9	100	0.7 U	3.2 U	3.1 U	3.3 U
Toluene	0.7	100	0.052 J	0.97 U	0.92 U	0.98 U

*** Dilution factor for *1,2,4-Trimethylbenzene* = 100**

Client ID Lab Sample ID Date Sampled Dilution SVOCs - mg/kg	NYSDEC Part 375 Unrestricted SCO mg/kg	NYSDEC Part 375 Restricted Residential SCO mg/kg	EP-SW-SOUTH (7.5') L1315770-01 8/14/2013 25	EP-SW-EAST (7.5') L1315913-01 8/15/2013 10	EP-SW-WEST (7.5') L1315913-02 8/15/2013 1	EP-SW-NORTH (7.5') L1315913-03 8/15/2013 10
Acenaphthene	20	100	4.2 U	1.6 U	0.29	1.5 U
Acenaphthylene	100	100	4.2 U	1.6 U	0.15 U	1.5 U
Anthracene	100	100	2.2 J	1 J	0.2	0.78 J
Benzo(a)anthracene	1	1	3.2 U	1.2 U	0.11 U	1.2 U
Benzo(a)pyrene	1	1	4.2 U	1.6 U	0.15 U	1.5 U
Benzo(b)fluoranthene	1	1	3.2 U	1.2 U	0.11 U	1.2 U
Benzo(ghi)perylene	100	100	4.2 U	1.6 U	0.15 U	1.5 U
Benzo(k)fluoranthene	0.8	3.9	3.2 U	1.2 U	0.11 U	1.2 U
Chrysene	1	3.9	3.2 U	1.2 U	0.11 U	1.2 U
Dibenzo(a,h)anthracene	0.33	0.33	3.2 U	1.2 U	0.11 U	1.2 U
Fluoranthene	100	100	3.2 U	1.2 U	0.05 J	1.2 U
Fluorene	30	100	11	2 U	0.9	1.9 U
Indeno(1,2,3-cd)pyrene	0.5	0.5	4.2 U	1.6 U	0.15 U	1.5 U
Naphthalene	12	100	35	4.1	0.19 U	10
Phenanthrene	100	100	21	9.1	1.7	7.8
Pyrene	100	100	4	1.2 U	0.32	1.4

Table 8
606 West 57th Street
New York, NY

Soil Endpoint Analytical Results

Notes

GENERAL

NS : No soil cleanup objective listed.

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

Exceedences of Part 375 Restricted Residential SCOs are in bold font.
Exceedences of Part 375 Unrestricted SCOs are shaded in gray.

SOIL

Part 375 Soil Cleanup Objectives : Soil Clean-up Objectives listed in NYSDEC (New York State Department of Environmental Conservation) "Part 375" Regulations (6 NYCRR Part 375).

12000

mg/kg : milligrams per kilogram = parts per million (ppm)

µg/kg : micrograms per kilogram = parts per billion (ppb)

Table 9
606 West 57th Street
New York, New York
Groundwater Sampling Results 2007
Volatile Organic Compounds

Sample ID	**NYSDEC**	**B/MW-2**	**B/MW-3**	**B/MW-15**	**B/MW-22**	**B/MW-24**
Lab Sample Number	**Class**	**220-2971-18**	**220-2971-15**	**220-2971-9**	**220-2937-3**	**220-2995-10**
Sampling Date	**GA**	**10/3/2007 14:00**	**10/3/2007 11:45**	**10/3/2007 13:45**	**10/1/2007 10:15**	**10/5/2007 13:10**
Matrix	**AWQS**	**Water**	**Water**	**Water**	**Water**	**Water**
Dilution Factor	**ug/L**	**1**	**1**	**1**	**1**	**1**
Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
GC/MS VOA - 8260B						
Acetone	50	3 J	4.5 J	3.9 J	4 J	4.5 J
Benzene	1	0.26 J	0.26 J	0.23 U	0.23 U	0.42 J
Bromodichloromethane	5	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	50	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U
Methyl Ethyl Ketone	NS	1.1 U	1.1 U	1.1 U	1.1 J	1.1 U
Carbon disulfide	NS	0.14 U	0.14 U	0.14 U	0.14 U *	0.14 U
Carbon tetrachloride	NS	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Chlorobenzene	5	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Chloroethane	5	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chloroform	7	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Chloromethane	NS	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	50	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,1-Dichloroethane	5	0.23 U *	0.23 U *	0.23 U *	0.23 U	0.23 U *
1,2-Dichloroethane	0.6	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-Dichloropropane	1	0.32 U *	0.32 U *	0.32 U *	0.32 U	0.32 U *
cis-1,3-Dichloropropene	0.4**	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
trans-1,3-Dichloropropene	0.4**	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Ethylbenzene	5	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
2-Hexanone	50	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Methylene Chloride	5	0.26 U	0.26 U	0.49 J	0.26 U *	0.44 J
methyl isobutyl ketone	NS	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Styrene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,1,2,2-Tetrachloroethane	5	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Toluene	5	0.4 J	0.51 J	0.09 U	0.23 J	0.66 J
1,1,1-Trichloroethane	5	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,1,2-Trichloroethane	1	0.33 U *	0.33 U *	0.33 U *	0.33 U	0.33 U *
Trichloroethene	5	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Vinyl chloride	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Xylenes, Total	5	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
cis-1,2-Dichloroethene	5	0.33 U *	0.33 U *	0.33 U *	0.33 U	0.33 U *
trans-1,2-Dichloroethene	5	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U

Table 10
606 West 57th Street
New York, New York
Groundwater Sampling Results 2007
Semi-Volatile Organic Compounds

Sample ID	NYSDEC	B/MW-2	B/MW-3	B/MW-15	B/MW-22	B/MW-24
Lab Sample Number	Class	220-2971-18	220-2971-15	220-2971-9	220-2937-3	220-2995-10
Sampling Date	GA	10/3/2007 14:00	10/3/2007 11:45	10/3/2007 13:45	10/1/2007 10:15	10/5/2007 13:10
Matrix	AWQS	Water	Water	Water	Water	Water
Dilution Factor	ug/L	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L
GC/MS Semi VOA - 8270C						
Acenaphthene	20	5.2 J	0.35 U	0.52 J	0.63 J	1.5 J
Acenaphthylene	NS	2.1 J	0.35 U	0.35 U	0.37 U	0.35 U
Anthracene	50	0.38 U	0.32 U	0.88 J	0.4 J	0.32 U
Benzo[a]anthracene	0.002	0.53 U	0.44 U	**1.3 J**	**0.74 J**	0.44 U
Benzo[a]pyrene	ND	0.38 U	0.32 U	1.1 J	0.55 J	0.32 U
Benzo[b]fluoranthene	0.002	0.53 U M	0.45 U	**1.2 J**	**0.91 J**	0.45 U
Benzo[g,h,i]perylene	NS	0.48 U	0.4 U	0.55 J	0.43 U	0.4 U
Benzo[k]fluoranthene	0.002	0.35 U M	0.29 U	**0.63 J**	0.32 U M	0.29 U
Bis(2-chloroethoxy)methane	5	0.6 U	0.51 U	0.51 U	0.55 U	0.51 U
Bis(2-chloroethyl)ether	1	2.4 U	2 U	2 U	2.1 U	2 U
Bis(2-ethylhexyl) phthalate	5	7.4 J	2.2 J	1.7 U	2 J	1.7 U
Butyl benzyl phthalate	50	0.52 U	0.43 U	0.43 U	0.47 U	0.43 U
Carbazole	NS	0.72 U	0.61 U	0.61 U	0.65 U	0.61 U
Chrysene	0.002	0.47 U	0.4 U	**1.2 J**	**0.71 J**	0.4 U
Di-n-butyl phthalate	50	2.2 U	1.9 U	1.9 U	2 U	1.9 U
Di-n-octyl phthalate	NS	0.41 U	0.35 U	0.35 U	0.37 U	0.35 U
4-Bromophenyl phenyl ether	NS	0.31 U	0.26 U	0.26 U	0.28 U	0.26 U
4-Chloroaniline	5	0.36 U	0.31 U	0.31 U	0.33 U	0.31 U
2-Chloronaphthalene	10	0.55 U	0.46 U	0.46 U	0.5 U	0.46 U
4-Chlorophenyl phenyl ether	NS	0.58 U	0.48 U	0.48 U	0.52 U	0.48 U
Dibenz(a,h)anthracene	NS	0.46 U	0.39 U	0.39 U	0.41 U	0.39 U
Dibenzofuran	NS	0.55 U	0.46 U	0.46 U	0.5 U	0.46 U
Diethyl phthalate	50	0.44 U	0.37 U	0.37 U	0.4 U	0.37 U
Dimethyl phthalate	NS	0.35 U	0.29 U	0.29 U	0.32 U	0.29 U
1,2-Dichlorobenzene	3	0.51 U	0.43 U	0.43 U	0.46 U	0.43 U
1,3-Dichlorobenzene	3	0.58 U	0.49 U	0.49 U	0.52 U	0.49 U
1,4-Dichlorobenzene	3	0.45 U	0.38 U	0.38 U	0.4 U	0.38 U
3,3'-Dichlorobenzidine	5	0.72 U	0.6 U	0.6 U	0.65 U	0.6 U
2,4-Dinitrotoluene	5	0.57 U	0.48 U	0.48 U	0.51 U	0.48 U
2,6-Dinitrotoluene	5	0.59 U	0.49 U	0.49 U	0.53 U	0.49 U
Fluoranthene	50	0.92 J	0.51 U	2.9 J	1.5 J	0.51 U
Fluorene	50	5.8 J	0.35 U	0.54 J	0.37 U	1.1 J
Hexachlorobenzene	0.04	0.41 U	0.35 U	0.35 U	0.37 U	0.35 U
Hexachlorobutadiene	0.5	0.88 U	0.74 U	0.74 U	0.8 U	0.74 U
Hexachlorocyclopentadiene	5	1.5 U	1.3 U	1.3 U	1.3 U	1.3 U
Hexachloroethane	5	0.76 U	0.64 U	0.64 U	0.69 U	0.64 U
Indeno[1,2,3-cd]pyrene	0.002	0.61 U	0.51 U	**0.65 J**	0.55 U	0.51 U
Isophorone	50	0.64 U	0.54 U	0.54 U	0.58 U	0.54 U
2-Methylnaphthalene	NS	0.59 U	0.49 U	0.49 U	0.53 U	0.49 U
Naphthalene	10	0.55 U	0.47 U	0.47 U	0.5 U	0.47 U
2-Nitroaniline	5	0.53 U	0.45 U	0.45 U	0.48 U	0.45 U
3-Nitroaniline	5	0.48 U	0.41 U	0.41 U	0.44 U	0.41 U
Nitrobenzene	0.4	0.59 U	0.5 U	0.5 U	0.54 U	0.5 U
N-Nitrosodi-n-propylamine	NS	0.7 U	0.59 U	0.59 U	0.63 U	0.59 U
N-Nitrosodiphenylamine	50	0.49 U	0.41 U	0.41 U	0.45 U	0.41 U
Phenanthrene	50	9.9 J	0.28 U	3.4 J	1.3 J	1.1 J
Pyrene	50	1.4 J	0.4 U	2.4 J	1.8 J	0.4 U
1,2,4-Trichlorobenzene	5	0.56 U	0.47 U	0.47 U	0.51 U	0.47 U
4-Chloro-3-methylphenol	1***	0.51 U	0.43 U	0.43 U	0.46 U	0.43 U
2-Chlorophenol	1***	0.55 U	0.46 U	0.46 U	0.49 U	0.46 U
2-Methylphenol	1***	0.6 U	0.5 U	0.5 U	0.54 U	0.5 U
4-Methylphenol	1***	0.46 U	0.39 U	0.39 U	0.42 U	0.39 U
2,4-Dichlorophenol	1***	0.36 U	0.3 U	0.3 U	0.32 U	0.3 U
2,4-Dimethylphenol	1***	0.75 U	0.63 U	0.63 U	0.68 U	0.63 U
2,4-Dinitrophenol	1***	2 U	1.7 U	1.7 U	1.8 U	1.7 U
4,6-Dinitro-2-methylphenol	1***	3.9 U	3.3 U	3.3 U	3.5 U	3.3 U
2-Nitrophenol	1***	0.6 U	0.5 U	0.5 U	0.54 U	0.5 U
4-Nitrophenol	1***	1.5 U	1.3 U	1.3 U	1.4 U	1.3 U
Pentachlorophenol	1***	4.9 U	4.1 U	4.1 U	4.4 U	4.1 U
Phenol	1***	1 U	0.85 U	0.85 U	**1.1** J	0.85 U
2,4,5-Trichlorophenol	1***	0.39 U	0.33 U	0.33 U	0.35 U	0.33 U
2,4,6-Trichlorophenol	1***	0.5 U	0.42 U	0.42 U	0.45 U	0.42 U
Benzyl alcohol	NS	1 U	0.84 U	0.84 U	0.91 U	0.84 U
4-Nitroaniline	5	0.6 U	0.5 U	0.5 U	0.54 U	0.5 U
2,2'-oxybis[1-chloropropane]	NS	0.64 U	0.54 U	0.54 U	0.58 U	0.54 U

Table 11
606 West 57th Street
New York, New York
Groundwater Sampling Results 2007
Total Metals

Sample ID	**NYSDEC**	**B/MW-2**	**B/MW-3**	**B/MW-15**	**B/MW-22**	**B/MW-24**
Lab Sample Number	**Class**	**220-2971-18**	**220-2971-15**	**220-2971-9**	**220-2937-3**	**220-2995-10**
Sampling Date	**GA**	**10/3/2007 14:00**	**10/3/2007 11:45**	**10/3/2007 13:45**	**10/1/2007 10:15**	**10/5/2007 13:10**
Matrix	**AWQS**	**Water**	**Water**	**Water**	**Water**	**Water**
Dilution Factor	**ug/L**	**1**	**1**	**1**	**1**	**5**
Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Metals						
Silver	50	14 J	1.3 U	**280**	1.3 U	6.5 U
Aluminum	NS	139000	14500	560000	84 U	1220000
Arsenic	25	**710**	**58**	**1300**	**30**	**2400**
Barium	1000	**8300**	710	**14400**	22	**69800**
Beryllium	3	**18 J**	1.7 J	**48**	0.6 U	**180**
Calcium	NS	410000	81100	1030000	22400	1600000
Cadmium	5	**13 J**	1.1 U	**23 J**	1.1 U	**44 J**
Cobalt	NS	180	16	530	2.1 U	1100
Chromium	50	**410**	**100**	**1400**	1.9 U	**3400**
Copper	200	**2500**	**250**	**5800**	3.9 U	**3000**
Iron	300	**374000**	**32100**	**839000**	51 U	**1440000**
Potassium	NS	19700	12500	90000	50000	112000
Magnesium	35000	**37200**	12600	**144000**	1200	**180000**
Manganese	300	**4700**	**690**	**17400**	5.2 U	**21900**
Sodium	20000	**56200**	**82900**	**174000**	**136000**	**175000**
Nickel	100	**400**	70	**1100**	4.3 J	**2400**
Lead	25	**15400**	**890**	**37700**	4.9 U	**68100**
Antimony	3	30 U	6 U	30 U	6 U	30 U
Selenium	10	**75 J**	**12 J**	**78 J**	9.8 U	49 U
Thallium	0.5	41 U	8.1 U	41 U	**8.2 J**	**100 J**
Vanadium	NS	700	48	2200	19	6400
Zinc	2000	**27600**	1000	**15400**	12 U	**91100**
Mercury	0.7	**290**	**11**	**93**	**260**	**160**

Table 11
606 West 57th Street
New York, New York
Groundwater Sampling Results 2007
Filtered (Dissolved) Metals

Sample ID	**NYSDEC**	**B/MW-2**		**B/MW-3**		**B/MW-15**		**B/MW-22**		**B/MW-24**	
Lab Sample Number	**Class**	**220-2971-18**		**220-2971-15**		**220-2971-9**		**220-2937-3**		**220-2995-10**	
Sampling Date	**GA**	**10/3/2007 14:00**		**10/3/2007 11:45**		**10/3/2007 13:45**		**10/1/2007 10:15**		**10/5/2007 13:10**	
Matrix	**AWQS**	**Water**		**Water**		**Water**		**Water**		**Water**	
Dilution Factor	**ug/L**	**1**		**1**		**1**		**1**		**1**	
Units		**ug/L**		**ug/L**		**ug/L**		**ug/L**		**ug/L**	
Metals											
Silver	50	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Aluminum	NS	84	U	84	U	84	U	110	J	84	U
Arsenic	25	20	J	8.7	J	21	J	**33**		19	J
Barium	1000	80		63		160		19		65	
Beryllium	3	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Calcium	NS	77700		62400		158000		19600		60600	
Cadmium	5	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Cobalt	NS	2.1	U	2.1	U	5.8	J	2.1	U	2.1	U
Chromium	50	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Copper	200	3.9	U	3.9	U	3.9	U	3.9	U	3.9	U
Iron	300	51	U	63	J	160	J	51	U	51	U
Potassium	NS	7200		10900		21800		39800		6700	
Magnesium	35000	5800		9100		20400		1000		5100	
Manganese	300	89		300		**1900**		5.2	U	95	
Sodium	20000	**46900**		**83700**		**115000**		**122000**		**65400**	
Nickel	100	1.9	U	1.9	U	2.2	J	2.9	J	1.9	U
Lead	25	5.7	J	4.9	U	4.9	U	4.9	U	4.9	U
Antimony	3	6	U	6	U	6	U	6	U	6	U
Selenium	10	9.8	U	9.8	U	9.8	U	**13**	**J**	9.8	U
Thallium	0.5	8.1	U	8.1	U	8.1	U	8.1	U	8.1	U
Vanadium	NS	1	U	1.1	J	1	U	18		5	
Zinc	2000	12	U	12	U	21	J	12	U	12	U
Mercury	0.7	0.11	J	0.1	U	0.15	J	0.1	U	0.22	

Table 12
606 West 57th Street
New York, New York
Groundwater Sampling Results 2007
Pesticides PCBs

Sample ID	**NYSDEC**	**B/MW-2**	**B/MW-3**	**B/MW-15**	**B/MW-22**	**B/MW-24**
Lab Sample Number	**Class**	**220-2971-18**	**220-2971-15**	**220-2971-9**	**220-2937-3**	**220-2995-10**
Sampling Date	**GA**	**10/3/2007 14:00**	**10/3/2007 11:45**	**10/3/2007 13:45**	**10/1/2007 10:15**	**10/5/2007 13:10**
Matrix	**AWQS**	**Water**	**Water**	**Water**	**Water**	**Water**
Dilution Factor	**ug/L**	**1**	**1**	**1**	**1**	**1**
Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
						Low
GC Semi VOA - 8081A						
4,4'-DDD	0.3	0.014 U	0.014 U	0.014 U	0.077 U	0.017 U
4,4'-DDE	0.2	0.0088 U	0.0088 U	0.0088 U	0.047 U	0.01 U
4,4'-DDT	0.2	0.01 U	0.01 U	0.01 U	0.056 U	0.012 U
Aldrin	NS	0.01 J M	0.0058 U	0.0058 U	0.031 U	0.0069 U
alpha-BHC	NS	0.011 U	0.011 U	0.011 U	0.059 U	0.013 U
beta-BHC	NS	0.013 U	0.034 J M	0.013 U	0.13 J M	0.015 U
delta-BHC	NS	0.0022 U	0.027 J M	0.0022 U	0.02 J M	0.0026 U
Dieldrin	0.004	**0.0057** U	**0.0057** U	**0.0057** U	0.031 U	**0.0068** U
Endosulfan I	NS	0.0035 U	0.0035 U	0.0035 U	0.019 U	0.0042 U
Endosulfan II	NS	0.0035 U	0.0035 U	0.0035 U	0.019 U	0.0042 U
Endosulfan sulfate	NS	0.014 U	0.014 U	0.014 U	0.076 U	0.017 U
Endrin	NS	0.025 U	0.025 U	0.025 U	0.13 U	0.03 U
Endrin aldehyde	5	0.028 U	0.028 U	0.028 U	0.15 U	0.034 U
Endrin ketone	5	0.016 U	0.016 U	0.016 U	0.087 U	0.019 U
gamma-BHC (Lindane)	NS	0.01 J	0.0052 U	0.0052 U	0.028 U	0.0062 U
Heptachlor	0.04	0.0078 U	0.0078 U	0.0078 U	**0.042** U	0.0093 U
Heptachlor epoxide	0.03	0.0057 U	0.0057 U	0.0057 U	**0.031** U	0.0068 U
Methoxychlor	35	0.041 U	0.041 U	0.041 U	0.22 U	0.048 U
Toxaphene	0.06	**0.21** U	**0.21** U	**0.21** U	**1.2** U	**0.26** U
alpha-Chlordane	0.05	0.0055 U	0.0055 U	0.0055 U	0.03 U	0.0065 U
gamma-Chlordane	NS	0.011 J M	0.0061 U	0.022 J M	0.033 U	0.0073 U
GC Semi VOA - 8082	5 (total)					
PCB-1016		0.072 U	0.072 U	0.072 U	0.077 U	0.086 U
PCB-1221		0.23 U	0.23 U	0.23 U	0.25 U	0.28 U
PCB-1232		0.11 U	0.11 U	0.11 U	0.11 U	0.13 U
PCB-1242		0.11 U	0.11 U	0.11 U	0.12 U	0.14 U
PCB-1248		0.15 U	0.15 U	0.15 U M	0.16 U	0.17 U
PCB-1254		0.037 U	0.037 U	0.19 J M	0.089 J M	0.044 U
PCB-1260		0.064 U	0.064 U	0.064 U M	0.069 U	0.076 U
TOTAL PCB		ND	ND	0.404	0.089	ND

606 West 57th Street
New York, New York
Groundwater Sampling Results
Notes

GENERAL

NS : No cleanup objective listed.

ND : No Detect

U : The analyte was not detected at the indicated concentration.

SB : Site Background

J : The concentration given is an estimated value.

M : Concentration calculated using manual integration.

UJ : The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R : The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
(Letters in bold indicate updated qualifiers based on the data usability report provided by Environmental Data Services Inc.)

Exceedences are highlighted in bold font.

GROUNDWATER

NYSDEC Class GA Ambient Standard : New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

µg/L : micrograms per Liter = parts per billion (ppb)

* = Surrogate, lab control sample or lab control sample duplicate exceeds control limits
** = Standard is the sum of both dichloropropene compounds
*** = Standard is the sum of phenolic compounds

Table 13
606 West 57th Street
New York, New York
Groundwater Sampling Results 2008-2013
Volatile Organic Compounds

Client ID	NYSDEC	MW-1				MW-2			
Lab Sample ID	Class GA	220-3927-1	L0905412-01	220-10698-1	L1321447-01	220-3927-2	L0905412-02	220-10698-2	L1321447-02
Date Sampled	Ambient	1/16/2008	4/29/2009	11/12/2009	10/23/2013	1/16/2008	4/29/2009	11/12/2009	10/23/2013
Dilution	Standard	1	1	1	1	10	20	2	10
µg/L	µg/L								
1,1,1,2-Tetrachloroethane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,1,1-Trichloroethane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,1,2,2-Tetrachloroethane	5	NA	NA	NA	0.5 U	NA	NA	NA	5 U
1,1,2-Trichloroethane	1	NA	NA	NA	1.5 U	NA	NA	NA	15 U
1,1-Dichloroethane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,1-Dichloroethene	5	NA	NA	NA	0.5 U	NA	NA	NA	5 U
1,1-Dichloropropene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,2,3-Trichlorobenzene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,2,3-Trichloropropane	0.04	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,2,4,5-Tetramethylbenzene	5	NA	NA	NA	2 U	NA	NA	NA	20 U
1,2,4-Trichlorobenzene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,2,4-Trimethylbenzene	5	0.14 U	2.5 U	0.64 U	2.5 U	**7.4** J	50 U	3 J	25 U
1,2-Dibromo-3-chloropropane	0.04	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,2-Dibromoethane	0.0006	NA	NA	NA	2 U	NA	NA	NA	20 U
1,2-Dichlorobenzene	3	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,2-Dichloroethane	0.6	NA	NA	NA	0.5 U	NA	NA	NA	5 U
1,2-Dichloropropane	1	NA	NA	NA	1 U	NA	NA	NA	10 U
1,3,5-Trimethylbenzene	5	0.21 U	2.5 U	0.53 U	2.5 U	2.1 U	50 U	1.1 U	25 U
1,3-Dichlorobenzene	3	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,3-Dichloropropane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,4-Dichlorobenzene	3	NA	NA	NA	2.5 U	NA	NA	NA	25 U
1,4-Diethylbenzene	NS	NA	NA	NA	2 U	NA	NA	NA	11 J
1,4-Dioxane	NS	NA	NA	NA	250 U	NA	NA	NA	2500 U
2,2-Dichloropropane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
2-Butanone	50	NA	NA	NA	5 U	NA	NA	NA	50 U
2-Hexanone	50	NA	NA	NA	5 U	NA	NA	NA	50 U
4-Ethyltoluene	NS	NA	NA	NA	2 U	NA	NA	NA	20 U
4-Isopropyltoluene	5	0.26 U	0.5 U	0.81 U	NA	2.6 U	10 U	1.6 U	NA
4-Methyl-2-pentanone	NS	NA	NA	NA	5 U	NA	NA	NA	50 U
Acetone	50	NA	NA	NA	5 U	NA	NA	NA	50 U
Acrylonitrile	5	NA	NA	NA	5 U	NA	NA	NA	50 U
Benzene	1	0.25 J	0.5 U	0.74 U	0.5 U	**12** J	10 U	1.5 U	**1.6** J
Bromobenzene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Bromochloromethane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Bromodichloromethane	50	NA	NA	NA	0.5 U	NA	NA	NA	5 U
Bromoform	50	NA	NA	NA	2 U	NA	NA	NA	20 U
Bromomethane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Carbon disulfide	60	NA	NA	NA	5 U	NA	NA	NA	50 U
Carbon tetrachloride	5	NA	NA	NA	0.5 U	NA	NA	NA	5 U
Chlorobenzene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Chloroethane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Chloroform	7	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Chloromethane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
cis-1,2-Dichloroethene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
cis-1,3-Dichloropropene	NS	NA	NA	NA	0.5 U	NA	NA	NA	5 U
Dibromochloromethane	50	NA	NA	NA	0.5 U	NA	NA	NA	5 U
Dibromomethane	5	NA	NA	NA	5 U	NA	NA	NA	50 U
Dichlorodifluoromethane	5	NA	NA	NA	5 U	NA	NA	NA	50 U
Ethyl ether	NS	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Ethylbenzene	5	0.28 U	0.5 U	0.87 U	2.5 U	2.8 U	10 U	1.7 U	25 U
Hexachlorobutadiene	0.5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Isopropylbenzene	5	0.21 U	0.5 U	0.85 U	2.5 U	**8.7** J	10 U	2.6 J	25 U
m&p-Xylene	5	0.34 U	1 U	1.7 U	2.5 U	**14** J	20 U	3.3 U	25 U
Methyl tert butyl ether	10	0.17 U	1 U	0.17 U	2.5 U	1.7 U	20 U	0.34 U	25 U
Methylene chloride	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Naphthalene	10	1.6 U	2.5 U	0.34 U	2.5 U	**1100**	**530**	**220**	**300**
n-Butylbenzene	5	0.43 U	0.5 U	0.67 U	2.5 U	4.3 U	10 U	1.3 U	25 U
n-Propylbenzene	5	0.21 U	0.5 U	0.62 U	2.5 U	**16** J	10 U	2.7 J	25 U
o-Chlorotoluene	5	NA	NA	NA	2.5 U		NA	NA	25 U
o-Xylene	5	0.15 U	1 U	0.66 U	2.5 U	**10** J	20 U	2.4 J	25 U
p-Chlorotoluene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
p-Isopropyltoluene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
sec-Butylbenzene	5	0.28 U	0.5 U	0.79 U	2.5 U	**7.1** J	10 U	2.5 J	25 U
Styrene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
tert-Butylbenzene	5	0.18 U	2.5 U	0.75 U	2.5 U	1.8 U	50 U	1.5 U	25 U
Tetrachloroethene	5	NA	NA	NA	0.5 U	NA	NA	NA	5 U
Toluene	5	1 J	3.4	0.72 U	2.5 U	**14** J	15 U	1.4 U	25 U
trans-1,2-Dichloroethene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
trans-1,3-Dichloropropene	NS	NA	NA	NA	0.5 U	NA	NA	NA	5 U
trans-1,4-Dichloro-2-butene	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Trichloroethene	5	NA	NA	NA	0.5 U	NA	NA	NA	5 U
Trichlorofluoromethane	5	NA	NA	NA	2.5 U	NA	NA	NA	25 U
Vinyl acetate	NS	NA	NA	NA	5 U	NA	NA	NA	50 U
Vinyl chloride	2	NA	NA	NA	1 U	NA	NA	NA	10 U

Table 13
606 West 57th Street
New York, New York
Groundwater Sampling Results 2008-2013
Volatile Organic Compounds

Client ID	NYSDEC	MW-3				MW-4			FB
Lab Sample ID	Class GA	220-3927-3	L0905412-03	220-10698-3	L1321447-03	220-3927-4	L0905412-04	220-10698-4	220-3927-5
Date Sampled	Ambient	1/16/2008	4/29/2009	11/12/2009	10/23/2013	1/16/2008	4/29/2009	11/12/2009	1/16/2008
Dilution	Standard	1	1	1	1	1	1	1	1
µg/L	µg/L								
1,1,1,2-Tetrachloroethane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,1,1-Trichloroethane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	5	NA	NA	NA	0.5 U	NA	NA	NA	NA
1,1,2-Trichloroethane	1	NA	NA	NA	1.5 U	NA	NA	NA	NA
1,1-Dichloroethane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,1-Dichloroethene	5	NA	NA	NA	0.5 U	NA	NA	NA	NA
1,1-Dichloropropene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,2,3-Trichlorobenzene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,2,3-Trichloropropane	0.04	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,2,4,5-Tetramethylbenzene	5	NA	NA	NA	2 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5	0.14 U	2.5 U	0.64 U	2.5 U	0.14 U	2.5 U	0.64 U	0.14 U
1,2-Dibromo-3-chloropropane	0.04	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,2-Dibromoethane	0.0006	NA	NA	NA	2 U	NA	NA	NA	NA
1,2-Dichlorobenzene	3	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,2-Dichloroethane	0.6	NA	NA	NA	0.5 U	NA	NA	NA	NA
1,2-Dichloropropane	1	NA	NA	NA	1 U	NA	NA	NA	NA
1,3,5-Trimethylbenzene	5	0.21 U	2.5 U	0.53 U	2.5 U	0.21 U	2.5 U	0.53 U	0.21 U
1,3-Dichlorobenzene	3	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,3-Dichloropropane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,4-Dichlorobenzene	3	NA	NA	NA	2.5 U	NA	NA	NA	NA
1,4-Diethylbenzene	NS	NA	NA	NA	2 U	NA	NA	NA	NA
1,4-Dioxane	NS	NA	NA	NA	250 U	NA	NA	NA	NA
2,2-Dichloropropane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
2-Butanone	50	NA	NA	NA	5 U	NA	NA	NA	NA
2-Hexanone	50	NA	NA	NA	5 U	NA	NA	NA	NA
4-Ethyltoluene	NS	NA	NA	NA	2 U	NA	NA	NA	NA
4-Isopropyltoluene	5	0.26 U	0.5 U	0.81 U	NA	0.26 U	0.5 U	0.81 U	0.26 U
4-Methyl-2-pentanone	NS	NA	NA	NA	5 U	NA	NA	NA	NA
Acetone	50	NA	NA	NA	5 U	NA	NA	NA	NA
Acrylonitrile	5	NA	NA	NA	5 U	NA	NA	NA	NA
Benzene	1	0.41 J	0.5 U	0.74 U	0.5 U	0.23 U	0.5 U	0.74 U	0.23 U
Bromobenzene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
Bromochloromethane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
Bromodichloromethane	50	NA	NA	NA	0.5 U	NA	NA	NA	NA
Bromoform	50	NA	NA	NA	2 U	NA	NA	NA	NA
Bromomethane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
Carbon disulfide	60	NA	NA	NA	5 U	NA	NA	NA	NA
Carbon tetrachloride	5	NA	NA	NA	0.5 U	NA	NA	NA	NA
Chlorobenzene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
Chloroethane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
Chloroform	7	NA	NA	NA	2.5 U	NA	NA	NA	NA
Chloromethane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
cis-1,2-Dichloroethene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
cis-1,3-Dichloropropene	NS	NA	NA	NA	0.5 U	NA	NA	NA	NA
Dibromochloromethane	50	NA	NA	NA	0.5 U	NA	NA	NA	NA
Dibromomethane	5	NA	NA	NA	5 U	NA	NA	NA	NA
Dichlorodifluoromethane	5	NA	NA	NA	5 U	NA	NA	NA	NA
Ethyl ether	NS	NA	NA	NA	2.5 U	NA	NA	NA	NA
Ethylbenzene	5	0.28 U	0.5 U	0.87 U	2.5 U	0.28 U	0.5 U	0.87 U	0.28 U
Hexachlorobutadiene	0.5	NA	NA	NA	2.5 U	NA	NA	NA	NA
Isopropylbenzene	5	0.21 U	0.5 U	0.85 U	2.5 U	0.21 U	0.5 U	0.85 U	0.21 U
m&p-Xylene	5	0.34 U	1 U	1.7 U	2.5 U	0.34 U	1 U	1.7 U	0.34 U
Methyl tert butyl ether	10	0.17 U	1 U	0.17 U	2.5 U	0.17 U	1 U	0.17 U	0.17 U
Methylene chloride	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
Naphthalene	10	1.6 U	2.5 U	0.34 U	0.92 J	1.6 U	2.5 U	0.34 U	1.6 U
n-Butylbenzene	5	0.43 U	0.5 U	0.67 U	2.5 U	0.43 U	0.5 U	0.67 U	0.43 U
n-Propylbenzene	5	0.21 U	0.5 U	0.62 U	2.5 U	0.21 U	0.5 U	0.62 U	0.21 U
o-Chlorotoluene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
o-Xylene	5	0.15 U	1 U	0.66 U	2.5 U	0.15 U	1 U	0.66 U	0.15 U
p-Chlorotoluene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
p-Isopropyltoluene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
sec-Butylbenzene	5	0.76 J	0.5 U	0.79 U	2.5 U	0.28 U	0.5 U	0.79 U	0.28 U
Styrene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
tert-Butylbenzene	5	0.18 U	2.5 U	0.75 U	2.5 U	0.18 U	2.5 U	0.75 U	0.18 U
Tetrachloroethene	5	NA	NA	NA	0.5 U	NA	NA	NA	NA
Toluene	5	0.29 J	0.75 U	0.72 U	2.5 U	0.09 U	0.75 U	0.72 U	0.09 U
trans-1,2-Dichloroethene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
trans-1,3-Dichloropropene	NS	NA	NA	NA	0.5 U	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	0.5 U	NA	NA	NA	NA
Trichlorofluoromethane	5	NA	NA	NA	2.5 U	NA	NA	NA	NA
Vinyl acetate	NS	NA	NA	NA	5 U	NA	NA	NA	NA
Vinyl chloride	2	NA	NA	NA	1 U	NA	NA	NA	NA

Table 13
606 West 57th Street
New York, New York
Groundwater Sampling Results 2008-2013
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled Dilution µg/L	NYSDEC Class GA Ambient Standard µg/L	EB L1321447-04 10/23/2013 1	TB 220-3927-6 1/16/2008 1	TB L1321447-05 10/23/2013 1
1,1,1,2-Tetrachloroethane	5	2.5 U	NA	2.5 U
1,1,1-Trichloroethane	5	2.5 U	NA	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	NA	0.5 U
1,1,2-Trichloroethane	1	1.5 U	NA	1.5 U
1,1-Dichloroethane	5	2.5 U	NA	2.5 U
1,1-Dichloroethene	5	0.5 U	NA	0.5 U
1,1-Dichloropropene	5	2.5 U	NA	2.5 U
1,2,3-Trichlorobenzene	5	2.5 U	NA	2.5 U
1,2,3-Trichloropropane	0.04	2.5 U	NA	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U	NA	2 U
1,2,4-Trichlorobenzene	5	2.5 U	NA	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U	0.14 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	NA	2.5 U
1,2-Dibromoethane	0.0006	2 U	NA	2 U
1,2-Dichlorobenzene	3	2.5 U	NA	2.5 U
1,2-Dichloroethane	0.6	0.5 U	NA	0.5 U
1,2-Dichloropropane	1	1 U	NA	1 U
1,3,5-Trimethylbenzene	5	2.5 U	0.21 U	2.5 U
1,3-Dichlorobenzene	3	2.5 U	NA	2.5 U
1,3-Dichloropropane	5	2.5 U	NA	2.5 U
1,4-Dichlorobenzene	3	2.5 U	NA	2.5 U
1,4-Diethylbenzene	NS	2 U	NA	2 U
1,4-Dioxane	NS	250 U	NA	250 U
2,2-Dichloropropane	5	2.5 U	NA	2.5 U
2-Butanone	50	5 U	NA	5 U
2-Hexanone	50	5 U	NA	5 U
4-Ethyltoluene	NS	2 U	NA	2 U
4-Isopropyltoluene	5	NA	0.26 U	NA
4-Methyl-2-pentanone	NS	5 U	NA	5 U
Acetone	50	5 U	NA	5 U
Acrylonitrile	5	5 U	NA	5 U
Benzene	1	0.5 U	0.23 U	0.5 U
Bromobenzene	5	2.5 U	NA	2.5 U
Bromochloromethane	5	2.5 U	NA	2.5 U
Bromodichloromethane	50	0.5 U	NA	0.5 U
Bromoform	50	2 U	NA	2 U
Bromomethane	5	2.5 U	NA	2.5 U
Carbon disulfide	60	5 U	NA	5 U
Carbon tetrachloride	5	0.5 U	NA	0.5 U
Chlorobenzene	5	2.5 U	NA	2.5 U
Chloroethane	5	2.5 U	NA	2.5 U
Chloroform	7	2.5 U	NA	2.5 U
Chloromethane	5	2.5 U	NA	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	NA	2.5 U
cis-1,3-Dichloropropene	NS	0.5 U	NA	0.5 U
Dibromochloromethane	50	0.5 U	NA	0.5 U
Dibromomethane	5	5 U	NA	5 U
Dichlorodifluoromethane	5	5 U	NA	5 U
Ethyl ether	NS	2.5 U	NA	2.5 U
Ethylbenzene	5	2.5 U	0.28 U	2.5 U
Hexachlorobutadiene	0.5	2.5 U	NA	2.5 U
Isopropylbenzene	5	2.5 U	0.21 U	2.5 U
m&p-Xylene	5	2.5 U	0.34 U	2.5 U
Methyl tert butyl ether	10	2.5 U	0.17 U	2.5 U
Methylene chloride	5	2.5 U	NA	2.5 U
Naphthalene	10	2.5 U	1.6 U	2.5 U
n-Butylbenzene	5	2.5 U	0.43 U	2.5 U
n-Propylbenzene	5	2.5 U	0.21 U	2.5 U
o-Chlorotoluene	5	2.5 U	NA	2.5 U
o-Xylene	5	2.5 U	0.15 U	2.5 U
p-Chlorotoluene	5	2.5 U	NA	2.5 U
p-Isopropyltoluene	5	2.5 U	NA	2.5 U
sec-Butylbenzene	5	2.5 U	0.28 U	2.5 U
Styrene	5	2.5 U	NA	2.5 U
tert-Butylbenzene	5	2.5 U	0.18 U	2.5 U
Tetrachloroethene	5	0.5 U	NA	0.5 U
Toluene	5	2.5 U	0.09 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	NA	2.5 U
trans-1,3-Dichloropropene	NS	0.5 U	NA	0.5 U
trans-1,4-Dichloro-2-butene	5	2.5 U	NA	2.5 U
Trichloroethene	5	0.5 U	NA	0.5 U
Trichlorofluoromethane	5	2.5 U	NA	2.5 U
Vinyl acetate	NS	5 U	NA	5 U
Vinyl chloride	2	1 U	NA	1 U

Table 14
606 West 57th Street
New York, New York
Groundwater Sampling Results 2008-2013
Semivolatile Organic Compounds

Client ID	NYSDEC	MW-1				MW-2			
Lab Sample ID	Class GA	220-3927-1	L0905412-01	220-10698-1	L1321447-01	220-3927-2	L0905412-02	220-10698-2	L1321447-02
Date Sampled	Ambient	1/16/2008	4/29/2009	11/12/2009	10/23/2013	1/16/2008	4/29/2009	11/12/2009	10/23/2013
Dilution	Standard	1	1	1	1	10	1	1	1/40 †
µg/L	µg/L								
1,2,4,5-Tetrachlorobenzene	5	NA	NA	NA	10 U	NA	NA	NA	11 U
1,2,4-Trichlorobenzene	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
1,2-Dichlorobenzene	3	NA	NA	NA	2 U	NA	NA	NA	2.2 U
1,3-Dichlorobenzene	3	NA	NA	NA	2 U	NA	NA	NA	2.2 U
1,4-Dichlorobenzene	3	NA	NA	NA	2 U	NA	NA	NA	2.2 U
2,4,5-Trichlorophenol	NS	NA	NA	NA	5 U	NA	NA	NA	5.6 U
2,4,6-Trichlorophenol	NS	NA	NA	NA	5 U	NA	NA	NA	5.6 U
2,4-Dichlorophenol	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
2,4-Dimethylphenol	50	NA	NA	NA	5 U	NA	NA	NA	5.6 U
2,4-Dinitrophenol	10	NA	NA	NA	20 U	NA	NA	NA	22 U
2,4-Dinitrotoluene	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
2,6-Dinitrotoluene	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
2-Chloronaphthalene	10	NA	NA	NA	0.2 U	NA	NA	NA	8.9 U
2-Chlorophenol	NS	NA	NA	NA	2 U	NA	NA	NA	2.2 U
2-Methylnaphthalene	NS	NA	NA	NA	0.2 U	NA	NA	NA	110
2-Methylphenol	NS	NA	NA	NA	5 U	NA	NA	NA	5.6 U
2-Nitroaniline	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
2-Nitrophenol	NS	NA	NA	NA	10 U	NA	NA	NA	11 U
3,3'-Dichlorobenzidine	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
3-Methylphenol/4-Methylphenol	NS	NA	NA	NA	5 U	NA	NA	NA	5.6 U
3-Nitroaniline	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
4,6-Dinitro-o-cresol	NS	NA	NA	NA	10 U	NA	NA	NA	11 U
4-Bromophenyl phenyl ether	NS	NA	NA	NA	2 U	NA	NA	NA	2.2 U
4-Chloroaniline	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
4-Chlorophenyl phenyl ether	NS	NA	NA	NA	2 U	NA	NA	NA	2.2 U
4-Nitroaniline	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
4-Nitrophenol	NS	NA	NA	NA	10 U	NA	NA	NA	11 U
Acenaphthene	20	0.63 J	0.2 U	0.36 U	0.2 U	**26** J	**28**	**28**	**110**
Acenaphthylene	NS	NA	NA	NA	0.2 U	NA	NA	NA	2.3 J
Acetophenone	NS	NA	NA	NA	5 U	NA	NA	NA	5.6 U
Anthracene	50	0.51 J	0.2 U	0.46 J	0.09 J	7.5 J	4	3.9 J	14
Benzo[a]anthracene	0.002	0.44 U	0.2 U	**0.49** J	0.2 U	4.4 U	**0.75**	**0.48** J	**3.3** J
Benzo[a]pyrene	ND	0.32 U	0.2 U	0.40 U	0.2 U	3.2 U	**0.31**	0.38 U	8.9 U
Benzo[b]fluoranthene	0.002	0.45 U	0.2 U	0.41 U	0.2 U	4.5 U	**0.42**	0.40 U	8.9 U
Benzo[g,h,i]perylene	NS	0.4 U	0.2 U	0.41 U	0.2 U	4 U	0.29 U	0.40 U	8.9 U
Benzo[k]fluoranthene	0.002	0.29 U	0.2 U	0.46 U	0.2 U	2.9 U	**0.16** J	0.44 U	8.9 U
Benzoic Acid	NS	NA	NA	NA	50 U	NA	NA	NA	56 U
Benzyl Alcohol	NS	NA	NA	NA	2 U	NA	NA	NA	2.2 U
Biphenyl	5	NA	NA	NA	2 U	NA	NA	NA	3.4
Bis(2-chloroethoxy)methane	5	NA	NA	NA	5 U	NA	NA	NA	5.6 U
Bis(2-chloroethyl)ether	1	NA	NA	NA	2 U	NA	NA	NA	2.2 U
Bis(2-chloroisopropyl)ether	NS	NA	NA	NA	2 U	NA	NA	NA	2.2 U
Bis(2-Ethylhexyl)phthalate	5	NA	NA	NA	3 U	NA	NA	NA	3.3 U
Butyl benzyl phthalate	50	NA	NA	NA	5 U	NA	NA	NA	5.6 U
Carbazole	NS	NA	NA	NA	2 U	NA	NA	NA	24
Chrysene	0.002	0.4 U	0.2 U	**0.47** J	0.2 U	4 U	**0.42**	**0.46** J	**2.7** J
Dibenz(a,h)anthracene	NS	0.39 U	0.2 U	0.44 U	0.2 U	3.9 U	0.29 U	0.42 U	8.9 U
Dibenzofuran	NS	NA	NA	NA	2 U	NA	NA	NA	24
Diethyl phthalate	50	NA	NA	NA	5 U	NA	NA	NA	5.6 U
Dimethyl phthalate	50	NA	NA	NA	5 U	NA	NA	NA	5.6 U
Di-n-butylphthalate	50	NA	NA	NA	5 U	NA	NA	NA	5.6 U
Di-n-octylphthalate	50	NA	NA	NA	5 U	NA	NA	NA	5.6 U
Fluoranthene	50	0.54 J	0.62	1.1 J	0.15 J	5.2 J	4.2	2.6 J	15
Fluorene	50	1.1 J	0.2 U	0.30 U	0.06 J	30 J	23	17	**57**
Hexachlorobenzene	0.04	NA	NA	NA	0.8 U	NA	NA	NA	36 U
Hexachlorobutadiene	0.5	NA	NA	NA	0.5 U	NA	NA	NA	22 U
Hexachlorocyclopentadiene	5	NA	NA	NA	20 U	NA	NA	NA	22 U
Hexachloroethane	5	NA	NA	NA	0.8 U	NA	NA	NA	36 U
Indeno[1,2,3-cd]pyrene	0.002	0.51 U	0.2 U	0.32 U	0.2 U	5.1 U	0.29 U	0.31 U	8.9 U
Isophorone	50	NA	NA	NA	5 U	NA	NA	NA	5.6 U
Naphthalene	10	0.59 J	0.2 U	0.34 U	0.15 J	**550**	**340**	**160**	**330**
Nitrobenzene	0.4	NA	NA	NA	2 U	NA	NA	NA	2.2 U
NitrosoDiPhenylAmine(NDPA)/DPA	50	NA	NA	NA	2 U	NA	NA	NA	2.2 U
n-Nitrosodi-n-propylamine	NS	NA	NA	NA	5 U	NA	NA	NA	5.6 U
P-Chloro-M-Cresol	NS	NA	NA	NA	2 U	NA	NA	NA	2.2 U
Pentachlorophenol	NS	NA	NA	NA	0.8 U	NA	NA	NA	36 U
Phenanthrene	50	0.96 J	0.73	1.5 J	0.13 J	32 J	20	17	**61**
Phenol	NS	NA	NA	NA	5 U	NA	NA	NA	5.6 U
Pyrene	50	0.66 J	0.67	1.8 J	0.13 J	4 J	3.2	3.1 J	12

Note: † = Dilution rates vary.

Table 14
606 West 57th Street
New York, New York
Groundwater Sampling Results 2008-2013
Semivolatile Organic Compounds

Client ID	NYSDEC	MW-3				MW-4*		EB	FB
Lab Sample ID	Class GA	220-3927-3	L0905412-03	220-10698-3	L1321447-03	L0905412-04	220-10698-4	L1321447-04	220-3927-5
Date Sampled	Ambient	1/16/2008	4/29/2009	11/12/2009	10/23/2013	4/29/2009	11/12/2009	10/23/2013	1/16/2008
Dilution	Standard	1	1	1	1	1	1	1	1
µg/L	µg/L								
1,2,4,5-Tetrachlorobenzene	5	NA	NA	NA	10 U	NA	NA	10 U	NA
1,2,4-Trichlorobenzene	5	NA	NA	NA	5 U	NA	NA	5 U	NA
1,2-Dichlorobenzene	3	NA	NA	NA	2 U	NA	NA	2 U	NA
1,3-Dichlorobenzene	3	NA	NA	NA	2 U	NA	NA	2 U	NA
1,4-Dichlorobenzene	3	NA	NA	NA	2 U	NA	NA	2 U	NA
2,4,5-Trichlorophenol	NS	NA	NA	NA	5 U	NA	NA	5 U	NA
2,4,6-Trichlorophenol	NS	NA	NA	NA	5 U	NA	NA	5 U	NA
2,4-Dichlorophenol	5	NA	NA	NA	5 U	NA	NA	5 U	NA
2,4-Dimethylphenol	50	NA	NA	NA	5 U	NA	NA	5 U	NA
2,4-Dinitrophenol	10	NA	NA	NA	20 U	NA	NA	20 U	NA
2,4-Dinitrotoluene	5	NA	NA	NA	5 U	NA	NA	5 U	NA
2,6-Dinitrotoluene	5	NA	NA	NA	5 U	NA	NA	5 U	NA
2-Chloronaphthalene	10	NA	NA	NA	0.2 U	NA	NA	0.2 U	NA
2-Chlorophenol	NS	NA	NA	NA	2 U	NA	NA	2 U	NA
2-Methylnaphthalene	NS	NA	NA	NA	0.2 U	NA	NA	0.2 U	NA
2-Methylphenol	NS	NA	NA	NA	5 U	NA	NA	5 U	NA
2-Nitroaniline	5	NA	NA	NA	5 U	NA	NA	5 U	NA
2-Nitrophenol	NS	NA	NA	NA	10 U	NA	NA	10 U	NA
3,3'-Dichlorobenzidine	5	NA	NA	NA	5 U	NA	NA	5 U	NA
3-Methylphenol/4-Methylphenol	NS	NA	NA	NA	5 U	NA	NA	5 U	NA
3-Nitroaniline	5	NA	NA	NA	5 U	NA	NA	5 U	NA
4,6-Dinitro-o-cresol	NS	NA	NA	NA	10 U	NA	NA	10 U	NA
4-Bromophenyl phenyl ether	NS	NA	NA	NA	2 U	NA	NA	2 U	NA
4-Chloroaniline	5	NA	NA	NA	5 U	NA	NA	5 U	NA
4-Chlorophenyl phenyl ether	NS	NA	NA	NA	2 U	NA	NA	2 U	NA
4-Nitroaniline	5	NA	NA	NA	5 U	NA	NA	5 U	NA
4-Nitrophenol	NS	NA	NA	NA	10 U	NA	NA	10 U	NA
Acenaphthene	20	0.75 J	0.19 U	0.34 U	0.2 U	0.2 U	0.33 U	0.2 U	0.37 U
Acenaphthylene	NS	NA	NA	NA	0.2 U	NA	NA	0.2 U	NA
Acetophenone	NS	NA	NA	NA	5 U	NA	NA	5 U	NA
Anthracene	50	0.32 U M	0.19 U	0.32 U	0.2 U	0.2 U	0.31 U	0.2 U	0.34 U
Benzo[a]anthracene	0.002	0.44 U	0.19 U	0.33 U	0.2 U	0.2 U	0.32 U	0.2 U	0.47 U
Benzo[a]pyrene	ND	0.32 U	0.19 U	0.39 U	0.2 U	0.2 U	0.37 U	0.2 U	0.34 U
Benzo[b]fluoranthene	0.002	0.45 U	0.19 U	0.40 U	0.2 U	0.2 U	0.38 U	0.2 U	0.48 U
Benzo[g,h,i]perylene	NS	0.4 U	0.19 U	0.40 U	0.2 U	0.2 U	0.38 U	0.2 U	0.42 U
Benzo[k]fluoranthene	0.002	0.29 U	0.19 U	0.44 U	0.2 U	0.2 U	0.42 U	0.2 U	0.31 U
Benzoic Acid	NS	NA	NA	NA	50 U	NA	NA	50 U	NA
Benzyl Alcohol	NS	NA	NA	NA	2 U	NA	NA	2 U	NA
Biphenyl	5	NA	NA	NA	2 U	NA	NA	2 U	NA
Bis(2-chloroethoxy)methane	5	NA	NA	NA	5 U	NA	NA	5 U	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	2 U	NA	NA	2 U	NA
Bis(2-chloroisopropyl)ether	NS	NA	NA	NA	2 U	NA	NA	2 U	NA
Bis(2-Ethylhexyl)phthalate	5	NA	NA	NA	3 U	NA	NA	3 U	NA
Butyl benzyl phthalate	50	NA	NA	NA	5 U	NA	NA	5 U	NA
Carbazole	NS	NA	NA	NA	2 U	NA	NA	2 U	NA
Chrysene	0.002	0.4 U	0.19 U	0.28 U	0.2 U	0.2 U	0.26 U	0.2 U	0.42 U
Dibenz(a,h)anthracene	NS	0.39 U	0.19 U	0.42 U	0.2 U	0.2 U	0.40 U	0.2 U	0.41 U
Dibenzofuran	NS	NA	NA	NA	2 U	NA	NA	2 U	NA
Diethyl phthalate	50	NA	NA	NA	5 U	NA	NA	5 U	NA
Dimethyl phthalate	50	NA	NA	NA	5 U	NA	NA	5 U	NA
Di-n-butylphthalate	50	NA	NA	NA	5 U	NA	NA	5 U	NA
Di-n-octylphthalate	50	NA	NA	NA	5 U	NA	NA	5 U	NA
Fluoranthene	50	0.51 U	0.19 U	0.34 U	0.2 U	0.37	0.33 U	0.2 U	0.55 U
Fluorene	50	1.2 J	0.19 U	0.29 U	0.2 U	0.2 U	0.27 U	0.2 U	0.37 U
Hexachlorobenzene	0.04	NA	NA	NA	0.8 U	NA	NA	0.8 U	NA
Hexachlorobutadiene	0.5	NA	NA	NA	0.5 U	NA	NA	0.5 U	NA
Hexachlorocyclopentadiene	5	NA	NA	NA	20 U	NA	NA	20 U	NA
Hexachloroethane	5	NA	NA	NA	0.8 U	NA	NA	0.8 U	NA
Indeno[1,2,3-cd]pyrene	0.002	0.51 U	0.19 U	0.31 U	0.2 U	0.2 U	0.29 U	0.2 U	0.54 U
Isophorone	50	NA	NA	NA	5 U	NA	NA	5 U	NA
Naphthalene	10	0.47 U	0.19 U	0.33 U	0.12 J	0.2 U	0.32 U	0.16 J	0.49 U
Nitrobenzene	0.4	NA	NA	NA	2 U	NA	NA	2 U	NA
NitrosoDiPhenylAmine(NDPA)/DPA	50	NA	NA	NA	2 U	NA	NA	2 U	NA
n-Nitrosodi-n-propylamine	NS	NA	NA	NA	5 U	NA	NA	5 U	NA
P-Chloro-M-Cresol	NS	NA	NA	NA	2 U	NA	NA	2 U	NA
Pentachlorophenol	NS	NA	NA	NA	0.8 U	NA	NA	0.8 U	NA
Phenanthrene	50	0.78 J	0.19 U	0.31 U	0.2 U	0.2 U	0.29 U	0.2 U	0.3 U
Phenol	NS	NA	NA	NA	5 U	NA	NA	5 U	NA
Pyrene	50	0.4 U	0.19 U	0.37 U	0.2 U	0.25	0.35 U	0.2 U	0.43 U

Note: † = Dilution rates vary.

* Not analyzed for SVOCs in January 2008 due to a poor groundwater recharge rate.

Tables 13 & 14
606 West 57th Street
New York, New York
Groundwater Sampling Results
Notes

GENERAL

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

M : Manually integrated compound.

NA : Not analyzed.

Exceedences are highlighted in bold font.

NY STARS : New York State Department of Environmental Conservation Spill Technology and Remediation Series (STARS) Memo#1.

µg/L : micrograms per Liter = parts per billion (ppb)

Table 15
606 W. 57th Street
New York, NY
Soil Vapor Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled Dilution µg/m³	NYSDOH 2006 Soil Vapor Intrusion Air Guideline Value µg/m³	NYSDOH 2006 Soil Vapor Intrusion Matrix µg/m3	AA-1 L1409540-01 5/5/2014 1	SV-1 L1409540-02 5/5/2014 2.5	SV-2 L1409540-03 5/5/2014 1	SV-3 L1409540-04 5/5/2014 1
1,1,1-Trichloroethane	NS	100	1.09 U	2.73 U	1.09 U	1.09 U
1,1,2,2-Tetrachloroethane	NS	NS	1.37 U	3.43 U	1.37 U	1.37 U
1,1,2-Trichloroethane	NS	NS	1.09 U	2.73 U	1.09 U	1.09 U
1,1-Dichloroethane	NS	NS	0.809 U	2.02 U	0.809 U	0.809 U
1,1-Dichloroethene	NS	NS	0.793 U	1.98 U	0.793 U	0.793 U
1,2,4-Trichlorobenzene	NS	NS	1.48 U	3.71 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	NS	NS	0.983 U	2.46 U	1.89	2.52
1,2-Dibromoethane	NS	NS	1.54 U	3.84 U	1.54 U	1.54 U
1,2-Dichlorobenzene	NS	NS	1.2 U	3.01 U	1.2 U	1.2 U
1,2-Dichloroethane	NS	NS	0.809 U	2.02 U	0.809 U	0.809 U
1,2-Dichloropropane	NS	NS	0.924 U	2.31 U	0.924 U	0.924 U
1,3,5-Trimethylbenzene	NS	NS	0.983 U	2.46 U	0.983 U	0.983 U
1,3-Butadiene	NS	NS	0.442 U	1.11 U	2.5	0.965
1,3-Dichlorobenzene	NS	NS	1.2 U	3.01 U	1.2 U	1.2 U
1,4-Dichlorobenzene	NS	NS	1.2 U	3.01 U	1.2 U	1.2 U
1,4-Dioxane	NS	NS	0.721 U	1.8 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	NS	NS	1.45	2.34 U	9.95	81.7
2-Butanone	NS	NS	0.59 U	21.1	7.79	12.2
2-Hexanone	NS	NS	0.82 U	2.05 U	0.82 U	0.82 U
3-Chloropropene	NS	NS	0.626 U	1.57 U	0.626 U	0.626 U
4-Ethyltoluene	NS	NS	0.983 U	2.46 U	0.983 U	0.983 U
4-Methyl-2-pentanone	NS	NS	0.82 U	9.22	5.49	6.23
Acetone	NS	NS	2.61	203	197	131
Benzene	NS	NS	1.07	4.86	8.72	9.74
Benzyl chloride	NS	NS	1.04 U	2.59 U	1.04 U	1.04 U
Bromodichloromethane	NS	NS	1.34 U	3.35 U	1.34 U	1.34 U
Bromoform	NS	NS	2.07 U	5.17 U	2.07 U	2.07 U
Bromomethane	NS	NS	0.777 U	1.94 U	0.777 U	0.777 U
Carbon disulfide	NS	NS	0.623 U	1.84	20.1	10.7
Carbon tetrachloride	NS	5	1.26 U	3.15 U	1.26 U	1.26 U
Chlorobenzene	NS	NS	0.921 U	2.3 U	0.921 U	0.921 U
Chloroethane	NS	NS	0.528 U	1.32 U	0.528 U	0.528 U
Chloroform	NS	NS	0.977 U	3.74	0.977 U	0.977 U
Chloromethane	NS	NS	0.977	1.03 U	2.13	0.82
cis-1,2-Dichloroethene	NS	NS	0.793 U	1.98 U	0.793 U	0.793 U
cis-1,3-Dichloropropene	NS	NS	0.908 U	2.27 U	0.908 U	0.908 U
Cyclohexane	NS	NS	0.688 U	25.2	2.91	3.29
Dibromochloromethane	NS	NS	1.7 U	4.26 U	1.7 U	1.7 U
Dichlorodifluoromethane	NS	NS	1.35	2.47 U	1.21	0.989 U
Ethanol	NS	NS	11.8	74.2	126	109
Ethyl Acetate	NS	NS	1.8 U	4.5 U	1.8 U	1.8 U
Ethylbenzene	NS	NS	0.869 U	2.27	2.12	3.38
Freon-113	NS	NS	1.53 U	3.83 U	1.53 U	1.53 U
Freon-114	NS	NS	1.4 U	3.49 U	1.4 U	1.4 U
Heptane	NS	NS	0.82 U	193	4.51	9.02
Hexachlorobutadiene	NS	NS	2.13 U	5.33 U	2.13 U	2.13 U
Isopropanol	NS	NS	1.3	11.9	19.8	15.7
Methyl tert butyl ether	NS	NS	0.721 U	1.8 U	1.8	0.721 U
Methylene chloride	60	NS	3.47 U	8.69 U	3.47 U	3.47 U
n-Hexane	NS	NS	2.28	26.5	8.78	22.7
o-Xylene	NS	NS	0.869 U	2.17 U	1.78	2.8
p/m-Xylene	NS	NS	1.74 U	5.86	6.17	9.82
Styrene	NS	NS	0.852 U	2.13 U	0.852 U	0.852 U
Tertiary butyl Alcohol	NS	NS	1.52 U	4.49	12.3	2.59
Tetrachloroethene	30	100	1.36 U	18.3	1.36 U	1.36 U
Tetrahydrofuran	NS	NS	0.59 U	1.47 U	0.59 U	0.59 U
Toluene	NS	NS	2.56	22.3	15.2	24
trans-1,2-Dichloroethene	NS	NS	0.793 U	1.98 U	0.793 U	0.793 U
trans-1,3-Dichloropropene	NS	NS	0.908 U	2.27 U	0.908 U	0.908 U
Trichloroethene	5	5	1.07 U	2.69 U	1.07 U	1.07 U
Trichlorofluoromethane	NS	NS	1.12 U	2.81 U	1.12 U	1.12 U
Vinyl bromide	NS	NS	0.874 U	2.19 U	0.874 U	0.874 U
Vinyl chloride	NS	NS	0.511 U	1.28 U	0.511 U	0.511 U

Table 15
606 W. 57th Street
New York, NY
Soil Vapor Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled Dilution µg/m³	NYSDOH 2006 Soil Vapor Intrusion Air Guideline Value µg/m³	NYSDOH 2006 Soil Vapor Intrusion Matrix µg/m3	SV-4 L1409540-05 5/5/2014 1	SV-5 L1409540-06 5/5/2014 1	SV-6 L1409540-07 5/5/2014 1	SV-7 L1409540-08 5/5/2014 2.5
1,1,1-Trichloroethane	NS	100	1.09 U	32.5	1.09 U	2.73 U
1,1,2,2-Tetrachloroethane	NS	NS	1.37 U	1.37 U	1.37 U	3.43 U
1,1,2-Trichloroethane	NS	NS	1.09 U	1.09 U	1.09 U	2.73 U
1,1-Dichloroethane	NS	NS	0.809 U	0.809 U	0.809 U	2.02 U
1,1-Dichloroethene	NS	NS	0.793 U	0.793 U	0.793 U	1.98 U
1,2,4-Trichlorobenzene	NS	NS	1.48 U	1.48 U	1.48 U	3.71 U
1,2,4-Trimethylbenzene	NS	NS	1.08	2.33	1.97	2.46 U
1,2-Dibromoethane	NS	NS	1.54 U	1.54 U	1.54 U	3.84 U
1,2-Dichlorobenzene	NS	NS	1.2 U	1.2 U	1.2 U	3.01 U
1,2-Dichloroethane	NS	NS	0.809 U	0.809 U	0.809 U	2.02 U
1,2-Dichloropropane	NS	NS	0.924 U	0.924 U	0.924 U	2.31 U
1,3,5-Trimethylbenzene	NS	NS	0.983 U	0.983 U	0.983 U	2.46 U
1,3-Butadiene	NS	NS	0.442 U	0.442 U	0.442 U	1.11 U
1,3-Dichlorobenzene	NS	NS	1.2 U	1.2 U	1.2 U	3.01 U
1,4-Dichlorobenzene	NS	NS	1.2 U	1.2 U	1.2 U	3.01 U
1,4-Dioxane	NS	NS	0.721 U	0.721 U	0.721 U	1.8 U
2,2,4-Trimethylpentane	NS	NS	7.33	0.934 U	0.934 U	2.34 U
2-Butanone	NS	NS	4.6	38.9	36.6	49
2-Hexanone	NS	NS	0.82 U	0.82 U	0.82 U	2.05 U
3-Chloropropene	NS	NS	0.626 U	0.626 U	0.626 U	1.57 U
4-Ethyltoluene	NS	NS	0.983 U	0.983 U	0.983 U	2.46 U
4-Methyl-2-pentanone	NS	NS	4.51	6.64	3.66	7.87
Acetone	NS	NS	221	456	620	1850
Benzene	NS	NS	5.43	5.65	4.95	7.41
Benzyl chloride	NS	NS	1.04 U	1.04 U	1.04 U	2.59 U
Bromodichloromethane	NS	NS	1.34 U	1.34 U	1.34 U	3.35 U
Bromoform	NS	NS	2.07 U	2.07 U	2.07 U	5.17 U
Bromomethane	NS	NS	0.777 U	0.777 U	0.777 U	1.94 U
Carbon disulfide	NS	NS	0.623 U	1.06	2.55	4.11
Carbon tetrachloride	NS	5	1.26 U	1.69	1.26 U	3.15 U
Chlorobenzene	NS	NS	0.921 U	0.921 U	0.921 U	2.3 U
Chloroethane	NS	NS	0.528 U	0.528 U	0.528 U	1.32 U
Chloroform	NS	NS	0.977 U	4.23	0.977 U	2.44 U
Chloromethane	NS	NS	0.516	0.413 U	0.525	1.18
cis-1,2-Dichloroethene	NS	NS	0.793 U	0.793 U	0.793 U	1.98 U
cis-1,3-Dichloropropene	NS	NS	0.908 U	0.908 U	0.908 U	2.27 U
Cyclohexane	NS	NS	2.36	2.15	3.25	3.65
Dibromochloromethane	NS	NS	1.7 U	1.7 U	1.7 U	4.26 U
Dichlorodifluoromethane	NS	NS	1.19	0.989 U	1.91	2.47 U
Ethanol	NS	NS	139	52.8	32.6	322
Ethyl Acetate	NS	NS	1.8 U	1.8 U	1.8 U	4.5 U
Ethylbenzene	NS	NS	1.4	3.82	4.28	2.17 U
Freon-113	NS	NS	1.53 U	1.53 U	1.53 U	3.83 U
Freon-114	NS	NS	1.4 U	1.4 U	1.4 U	3.49 U
Heptane	NS	NS	3.3	19.6	21.7	16.2
Hexachlorobutadiene	NS	NS	2.13 U	2.13 U	2.13 U	5.33 U
Isopropanol	NS	NS	14.8	9.37	5.9	28.8
Methyl tert butyl ether	NS	NS	0.721 U	0.721 U	0.721 U	1.8 U
Methylene chloride	60	NS	3.47 U	3.47 U	3.47 U	8.69 U
n-Hexane	NS	NS	5.71	6.66	5.6	14.6
o-Xylene	NS	NS	1.18	2.9	2.81	2.17 U
p/m-Xylene	NS	NS	3.76	10.4	10.2	4.95
Styrene	NS	NS	0.852 U	0.852 U	0.852 U	2.13 U
Tertiary butyl Alcohol	NS	NS	2.82	3.82	3.82	8.97
Tetrachloroethene	30	100	1.36 U	26.6	30.5	6.66
Tetrahydrofuran	NS	NS	0.59 U	1.09	0.59 U	1.47 U
Toluene	NS	NS	10.2	61.4	50.9	25
trans-1,2-Dichloroethene	NS	NS	0.793 U	0.793 U	0.793 U	1.98 U
trans-1,3-Dichloropropene	NS	NS	0.908 U	0.908 U	0.908 U	2.27 U
Trichloroethene	5	5	2.18	1.07 U	1.07 U	2.69 U
Trichlorofluoromethane	NS	NS	1.31	1.2	1.37	2.81 U
Vinyl bromide	NS	NS	0.874 U	0.874 U	0.874 U	2.19 U
Vinyl chloride	NS	NS	0.511 U	0.511 U	0.511 U	1.28 U

Table 15
606 W. 57th Street
New York, NY
Soil Vapor Analytical Results
Notes

GENERAL

NS : No cleanup objective listed.

U : The analyte was not detected at the indicated concentration.

Exceedences of NYSDOH Soil Vapor Intrusion Air Guidance Value are highlighted in bold font.

SOIL VAPOR

$\mu g/m^3$: micrograms per cubic meter of air

NYSDOH Soil Vapor Intrusion Air Guidance Value : NYSDOH Air Guideline Values (AGVs) presented in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document") with the updated AGV for PCE based on the September 2013 Fact Sheet for PCE.

NYSDOH Soil Vapor Intrusion Matrix : NYSDOH sub-slab vapor concentrations which may require monitoring or mitigation as presented in the Matrix 1 and Matrix 2 tables of the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document").

APPENDIX A

Development Plans

UNDER SEPARATE COVER

APPENDIX B

Boring Logs

AKRF, Inc.
Environmental Consultants

Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
	Location: West 57th Street	Weather: 70s Overcast	Drilling	
B-1	Drilling Method: geoprobe (remote)	Driller: Zebra	Start	Finish
	Sampling Method: 3' macrocore	Logged By: BD	Date: 10/3/2007	Date: 10/3/07
	Depth to Water:		Time: 1215	Time: 1245

Surface Conditions: 2" Concrete

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
	1				
	2	Dark brown SAND with trace brick, stone, and concrete (FILL)	0	No	B-1(1-3) @ 1225
	3				Slightly Moist
	4				
	5	Black/brown SAND, trace brick and stone (FILL)	0	No	
	6				Saturated
	7				
	8	Same as Above	0	No	
	9				
	10				
	11	Same as Above	0	No	
	12				
	13				
	14	Same as Above	0	No	
	15	END OF BORING @ 16' bgs			
	16				
	17				
	18				

Comments: Began approximately 10 feet below street level. Groundwater encountered approximately 5 feet below floor (approximately 15 feet below sidewalk grade). Soil sample collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

AKRF, Inc.
Environmental Consultants

Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
	Location: West 57th Street	Weather: 70s Overcast	Drilling	
B-2	Drilling Method: geoprobe (remote)	Driller: Zebra	Start	Finish
	Sampling Method: 3' macrocore	Logged By: BD	Date: 10/3/2007	Date: 10/3/07
	Depth to Water:		Time: 1310	Time: 1400

Surface Conditions: ASPHALT

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
0	1				
	2				
	3				
1.5'	4				
	5	Dark brown SAND with trace brick and stone (FILL)	0	No	B-2(4-6) @ 1320
	6				Saturated
1.5'	7				
	8	Brown/black SAND, trace stone	132	Petroleum-like Odor	
	9				
1.5'	10				
	11	Same as Above	121	Petroleum-like Odor	
	12				
1.5'	13				
	14	Brown SAND, trace stone	0	No	
	15	END OF BORING @ 16' bgs			
	16				
	17				
	18				

Comments: Began approximately 10 feet below street level. Groundwater encountered approximately 6 feet below floor (approximately 16 feet below sidewalk grade). Collected groundwater sample B/MW-2 @ 1400 . Soil and groundwater samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

AKRF, Inc.
Environmental Consultants

Soil Boring Log

Boring No:				
B-3	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
	Location: West 57th Street	Weather: 70s Overcast	Drilling	
	Drilling Method: geoprobe (remote)	Driller: Zebra	Start	Finish
	Sampling Method: 3' macrocore	Logged By: BD	Date: 10/3/2007	Date: 10/3/07
	Depth to Water:		Time: 1110	Time:

Surface Conditions: 2" Concrete Slab

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
6"	1	Brown SAND, trace stone and concrete (FILL)			
	2		1.6	No	Not enough recovery in macrocore to collect a sample
	3				
12"	4	Same as Above			Slightly moist
	5		0	No	B-3(3-5) @ 1124
	6				Saturated
0	7	No Recovery			
	8		0	No	
	9				
18"	10	Dark brown/black SAND, some stone			
	11		0	No	
	12				
18"	13	Same as Above			
	14		0	No	
	15	END OF BORING @ 16' bgs			
	16				
	17				
	18				

Comments: Began approximately 10 feet below street level. Groundwater encountered approximately 5 feet below floor (approximately 15 feet below sidewalk grade. Collected groundwater sample, B/MW03 @ 1145. Soil and groundwater samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

AKRF, Inc.

Environmental Consultants

Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
	Location: West 57th Street	Weather:	Drilling	
B-4	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/1/2007	Date: 10/1/07
	Depth to Water:		Time: 1120	Time: 1150

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
34"	1	10" Greyish-white SAND and GRAVEL, some crushed concrete (FILL)	0	No	
	2	24" Dark brown fine-medium SAND, trace stone, trace silt	0.1	No	B-4 (1-2) @ 1150
	3		0.1	No	
	4		0.3	No	
24"	5	Dark brown SILT, trace fine sand, trace clay	0.1	No	
	6		2.3	Very slight petroleum-like	
	7		2.7	odor	B-4(6-7) @ 11:55
	8		2.1	No	
24"	9	Dark brown/black medium-coarse SAND and GRAVEL, some silt	0	No	Saturated
	10		0	No	
	11		0	No	
	12		0	No	
34"	13	Same as Above	0	No	
	14		0	No	
	15		0	No	
	16	END OF BORING @ 16' bgs	0	No	
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Began approximately 10 feet below street level. Groundwater encountered approximately 8 feet below grade (approximately 18 feet below sidewalk grade). Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

AKRF, Inc.
Environmental Consultants

Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
B-5	Location: West 57th Street	Weather:	Drilling	
	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/1/2007	Date: 10/1/07
	Depth to Water:		Time: 1345	Time: 1405

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
44"	1	4" ASPHALT pieces	0	No	
	2	20" Brown SILT and SAND	0	No	B-5(1-2) @ 1409
	3	20" Dark brown/black sandy SILT, trace gravel	0	No	
	4		0	No	
36"	5	18" Dark brown/black clayey SILT, trace very fine sand	0	Petroleum-like Odor	
	6	18" Dark brown/black SAND and GRAVEL, some silt	0	Petroleum-like Odor	B-5(5-6) @ 1412
	7		0	Petroleum-like Odor	Moist
	8		0	Petroleum-like Odor	Saturated
24"	9	Dark brown/black SAND and GRAVEL, some silt	0	Petroleum-like Odor	
	10		0	Petroleum-like Odor	
	11		0	Petroleum-like Odor	
	12		0	Petroleum-like Odor	
0	13	No Recovery; All water			
	14				
	15				
	16	END OF BORING @ 16' bgs			
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Began boring at approximately 10 feet below street level. Groundwater encountered approximately 7 feet below grade (approximately 17 feet below sidewalk grade). Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

AKRF, Inc.

Environmental Consultants

Soil Boring Log

Boring No: B-6			
Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
Location: West 57th Street	Weather:	Drilling	
Drilling Method: geoprobe	Driller: Zebra	Start	Finish
Sampling Method: 4' macrocore	Logged By: ER	Date: 10/1/2007	Date: 10/1/07
Depth to Water:		Time: 1425	Time: 1440

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
34"	1	6" CONCRETE Pieces	0	No	B-6(1-2) @ 1435
	2	28" Brown SILT and SAND	0	No	
	3		0	No	
	4		0	No	
24"	5	Black/dark brown clayey SILT, trace very fine sand	0	petrleoum-like odor	
	6		0	petrleoum-like odor	B-6(5-6) @ 1440
	7		0	petrleoum-like odor	Moist
	8		0	petrleoum-like odor	
38"	9	Dark brown/black GRAVEL and SAND	0	petrleoum-like odor	Saturated
	10		0	petrleoum-like odor	
	11		0	No	
	12		0	No	
14"	13	Black very fine SAND, trace silt	0	No	
	14		0	No	
	15		0	No	
	16	END OF BORING @ 16' bgs	0	No	
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Began Boring at approximately 10 feet below street level. Groundwater encountered approximately 8 feet below grade (approximately 18 feet below sidewalk grade). Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

AKRF, Inc.

Environmental Consultants

Soil Boring Log

Boring No: B-7			
Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
Location: West 57th Street	Weather: 80s Sunny	Drilling	
Drilling Method: geoprobe	Driller: Zebra	Start	Finish
Sampling Method: 4' macrocore	Logged By: ER	Date: 10/5/2007	Date: 10/5/07
Depth to Water:		Time: 0725	Time: 0755

Surface Conditions: Concrete

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
34"	1	6" CONCRETE	0	No	
	2	14" Brown/Dark brown medium SAND and GRAVEL, trace stone, trace silt	0	No	B-7 (1-2) @ 0745
	3		0	No	
	4	14" Light brown very fine SAND	0	No	Moist
34"	5	Dark grey coarse SAND and GRAVEL, some stone	4	No	
	6		14.9	Petroleum like odors	B-7 (5-6) @ 0750
	7		13.1	Petroleum like odors	Wet
	8		15.2	Petroleum like odors	
30"	9	Grey very fine SAND	7.1	No	Saturated
	10		3.2	No	
	11		3	No	
	12		0.8	No	
48"	13	24" Same as above	0	No	Wet
	14	10" Grey CLAY	0	No	
	15	24" Grey CLAY and very fine SAND	0	No	Slight moisture
	16	EOB @ 16 feet below basement floor	0	No	
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Began boring approximately 10 feet below street level. Groundwater encountered at approximately 6 feet below floor (approximately 16 feet below sidewalk grade). Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

AKRF, Inc.

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Soil Boring Log

Boring No:			
B-8	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1
	Location: West 57th Street	Weather:	Drilling
	Drilling Method: geoprobe	Driller: Zebra	Start / Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/1/2007 / Date: 10/1/07
	Depth to Water:		Time: 1240 / Time: 1255

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
30"	1	Dark brown sandy SILT, trace stone, trace wood fragments 3-4' bgs (FILL)	0.1	No	
	2		0.3	No	B-8(1-2) @ 1255
	3		0.1	No	
	4		0	No	
30"	5	Dark brown SAND, some silt, trace small stone and rock	1	No	B-8(5-6) @ 1300
	6		0.8	No	Moist
	7		0.8	No	Saturated
	8		1	No	
24"	9	18" Dark brown/black GRAVEL and SAND	1	No	
	10	6" Brown very fine SAND	1	No	
	11		0.8	No	
	12		0.8	No	
48"	13	Grey very fine SAND, some gravel	0.8	No	
	14		1	No	
	15		0.5	No	
	16	EOB @ 16 feet below basement floor	0.2	No	
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Began boring approximately 10' below street level. Groundwater encountered approximately 6 feet below floor (approximately 16 feet below sidewalk grade). Soil borings collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

AKRF, Inc.
Environmental Consultants

Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
	Location: West 57th Street	Weather:	Drilling	
B-9	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/1/2007	Date: 10/1/07
	Depth to Water:		Time: 1500	Time: 1530

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
40"	1	6" CONCRETE pieces 14" Brown fine SAND, some gravel and stone	0	No	
	2	12" Black very fine SAND and SILT 6" Tan/Brown fine-medium SAND	0	No	B-9(1-2) @ 1525
	3	2" Black fine SAND and SILT	0	No	
	4		0	Petroleum-like Odor	
34"	5	6" Tan/brown fine-medium SAND and GRAVEL	1.2	Petroleum-like Odor	
	6	28" Black very fine SAND, trace gravel	57.1	Petroleum-like Odor	
	7		143.2	Petroleum-like Odor	B-9(6-7) @ 1530
	8		58.7	Petroleum-like Odor	Moist
0"	9				
	10	No Recovery			
	11				
	12				
0"	13				
	14				
	15	No Recovery			
	16	END OF BORING AT 16' bgs			
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments:

Begin Boring at approximately 10' below street level. Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
B-10	Location: West 57th Street	Weather: 80s Sunny	Drilling	
	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/5/2007	Date: 10/5/07
	Depth to Water:		Time: 0800	Time: 0845

Surface Conditions: Concrete

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
9"	1	CONCRETE	0	No	
	2		0	No	
	3		0	No	
	4		0	No	
38"	5	Brown and grey medium SAND and GRAVEL, some stone	0.2	No	B-10 (4-5) @ 0840
	6		1.7	No	
	7		2.2	Slight petroleum like odor	B-10 (6-7) @ 0845
	8		1.1	Slight petroleum like odor	slight moisture
28"	9	Same as Above	0	No	
	10		0	No	
	11		0	No	Saturated
	12		0	No	
30"	13	Same as Above	0	No	
	14		0	No	
	15		0	No	
	16	EOB @ 16 feet below the basement floor	0	No	
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Began boring approximately 10 feet below street level. Groundwater encountered approximately 10 feet below grade (approximately 20 feet below sidewalk grade). Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
	Location: West 57th Street	Weather: 70s Overcast	Drilling	
B-11	Drilling Method: geoprobe (remote)	Driller: Zebra	Start	Finish
	Sampling Method: 3' macrocore	Logged By: BD	Date: 10/3/2007	Date: 10/3/07
	Depth to Water:		Time:	Time:

Surface Conditions: ASPHALT

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
	1	Dark brown sand with Mica schist, trace stone	0	No	
	2		0	No	B-11(1-3) @ 0930
	3		0	No	
	4	Dark grey sand, trace stone		No	
	5		236	Strong Petroleum-Like	B-11(4-6) @ 1000
	6			Odor	
	7	REFUSAL @ 7.5' bgs	233	Strong Petroleum-like	
	8			Odor	
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				

Comments: Began boring approximately 10 feet below street level. Macro-core refusal at 7.5 feet below the basement floor. Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
	Location: West 57th Street	Weather: 70s Overcast	Drilling	
B-12	Drilling Method: geoprobe (remote)	Driller: Zebra	Start	Finish
	Sampling Method: 3' macrocore	Logged By: BD	Date: 10/3/2007	Date: 10/3/07
	Depth to Water:		Time: 0815	Time: 0900

Surface Conditions: ASPHALT

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
24"	1	Dark brown SAND and MICA SCHIST, trace brick and stone (FILL)	0	No	
	2		0	No	B-12(1-3) @ 0830
	3		0	No	Slightly Moist
24"	4	Same as Above	0	No	
	5		0	No	
	6		0	No	
12"	7	Same as Above	0	No	
	8		0	No	Moist
	9		0	No	
	10	Same as Above	0	No	Very Moist
	11		0	No	B-12(10-12) @ 0900
	12		0	No	Saturated
	13	Same as Above; black @ 13.5' bgs	0	No	
	14	REFUSAL @ 14' bgs	0	No	
	15				
	16				
	17				
	18				

Comments: Began boring approximately 10 feet below street level. Groundwater encountered approximately 11 feet below floor (approximately 21 feet below sidewalk grade. Macro-core refusal at 14 feet below basement floor. Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
B-13	Location: West 57th Street	Weather: 70s Overcast	Drilling	
	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/3/2007	Date: 10/3/07
	Depth to Water:		Time: 1205	Time: 1230

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
24"	1	2" ROCK and CONCRETE	0	No	
	2	16" Brown/black medium SAND and SILT	0	No	
	3	3" BENTONITE and CLAY (FILL)	0	No	B-13(2-3) @ 1250
	4	3" Brown/black medium SAND and SILT	0	No	
48"	5	Light brown SAND and SILT, trace stone	0	No	
	6		0	No	
	7		0	No	
	8	REFUSAL @ 8' bgs	0	No	
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Refusal at 8' below grade. Soil samples collected for for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
B-14	Location: West 57th Street	Weather: 80s sunny	Drilling	
	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/5/2007	Date: 10/5/07
	Depth to Water:		Time: 1100	Time: 1230

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
6"	1	CONCRETE and LARGE ROCK	0	No	
	2	REFUSAL @ 2 feet below grade	0	No	Not enough material to collect sample
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Refusal at 2' below grade.

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Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
B-15	Location: West 57th Street	Weather: 70s Sunny	Drilling	
	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/3/2007	Date: 10/3/07
	Depth to Water:		Time: 1300	Time: 1320

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
28"	1	3" CONCRETE	0	No	
	2	18" Light brown medium SAND, GRAVEL, and STONE	0	No	
	3	5" Dark brown/black sandy SILT	0	No	
	4	2" Red/orange medium SAND and STONE	0	No	B-15(3-4) @ 13:20
48"	5	24" Grey and light brown fine SAND, some stone, trace silt	0	No	
	6	24" Yellowish brown very fine SAND	0	No	
	7		0	No	
	8		0	No	
48"	9	12" Yellowish brown very fine SAND	0	No	
	10	36" Dark brown medium SAND and GRAVEL, some silt, trace clay	0	No	
	11		0	No	
	12		0	No	
11"	13	Dark brown fine SAND, some silt	0	No	
	14		0	No	
	15		0	No	
	16		0	No	B-15(12-16) @ 1325
0	17	No Recovery	0	No	Saturated
	18		0	No	
	19		0	No	
	20	END OF BORING @ 20' bgs	0	No	
	21				
	22				
	23				
	24				

Comments: Groundwater encountered approximately 16 feet below grade. Collected groundwater sample B/MW-15 @ 13:45. Soil and groundwater samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
B-16	Location: West 57th Street	Weather: 80s Sunny	Drilling	
	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/5/2007	Date: 10/5/07
	Depth to Water:		Time: 1200	Time: 1220

Surface Conditions: Concrete

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
	1	4" CONCRETE	0	No	
9"	2	16" Brown medium SAND and GRAVEL, some stone	0	No	B-16 (2-4) @ 1220
	3		0	No	
	4	REFUSAL @ 4 feet below grade	0	No	
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Macro-core refusal @ 4 feet below street level. Soil sample collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No: B-17			
Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
Location: West 57th Street	Weather: 70s Overcast	Drilling	
Drilling Method: geoprobe	Driller: Zebra	Start	Finish
Sampling Method: 4' macrocore	Logged By: ER	Date: 10/3/2007	Date: 10/3/07
Depth to Water:		Time: 0800	Time: 0830

Surface Conditions: ASPHALT

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
24'	1	12" CONCRETE	0	No	
	2	12" Dark brown fine SAND and large STONE, trace silt	0	No	
	3		0	No	B-17(2-3) @ 0835
	4		0	No	
18"	5	8" Dark brown fine SAND and GRAVEL, trace silt	0	No	
	6	10" Large STONE	0	No	
	7	REFUSAL @ 6' bgs			
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Difficulty advancing through thick concrete and rebar below asphalt. Macro-core refusal @ 6 feet below street level. Soil sample collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:			
B-18	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1
	Location: West 57th Street	Weather: 70s Overcast	Drilling
	Drilling Method: geoprobe	Driller: Zebra	Start / Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/3/2007 / Date: 10/3/07
	Depth to Water:		Time: 0900 / Time: 1025

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
40"	1	2" CONCRETE	0	No	
	2	8" Dark brown/black fine SAND, trace silt	0	No	B-18(1-2) @ 1025
	3	15" Orange-brown fine SAND, trace silt	0	No	
	4	15" Yellowish brown fine SAND, trace silt	0	No	
44"	5	30" Yellowish brown fine SAND, trace silt	0	No	
	6	14" Reddish brown fine SAND, trace silt	0	No	
	7		0	No	
	8		0	No	
48"	9	6" Yellowish brown fine SAND, trace silt	0	No	
	10	18" Light brown fine SAND	0	No	
	11	24" Brown fine SAND, some silt, some gravel, trace wood	0	No	
	12		0	No	
30"	13	5" Greenish grey very fine sand, trace silt	0	No	
	14	8" Orange-Brown very fine SAND, trace silt	0	No	
	15	5" Greenish grey very fine SAND, trace silt	0	No	
	16	12" Orange brown fine SAND, some silt	0	No	
32"	17	18" Light brown SILT, some very fine sand, trace clay	0	No	B-18(16-17) @ 1030
	18	14" Brown medium SAND and weathered ROCK at the bottom	0	No	Moist
	19		0	No	
	20		0	No	Dry
20"	21		0	No	
	22	Weathered Rock (schist)	0	No	
	23		0	No	
	24	END OF BORING @ 24' bgs	0	No	

Comments: Difficulty pushing through concrete slab below asphalt. Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:				
B-19	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
	Location: West 57th Street	Weather: 70s Overcast	Drilling	
	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/3/2007	Date: 10/3/07
	Depth to Water:		Time: 1045	Time: 1140

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
34"	1	4" CONCRETE	0	No	
	2	12" Greenish grey very fine SAND, some clay	0	No	B-19(2-3) @ 1142
	3	14" Reddish brown very fine SAND, trace silt, trace stone	0	No	
	4	4" Yellowish brown very fine SAND	0	No	
34"	5	4" ROCK and granulated/crushed CONCRETE (possible pavement sluff)	0	No	
	6	12" Greenish/yellowish grey very fine SAND, some silt	0	No	
	7	12" Reddish brown very fine SAND, trace silt and stone	0	No	
	8	8" Weathered ROCK (SCHIST), some silt	0	No	
39"	9	13" Reddish brown fine-medium SAND and SILT	0	No	
	10	4" Weathered rock (schist) and medium sand	0	No	
	11	22" Reddish brown fine-medium sand and silt, trace stone	0	No	
	12		0	No	
34"	13	Reddish brown fine-medium SAND and SILT, trace stone	0	No	
	14		0	No	
	15		0	No	
	16		0	No	
48"	17	30" Same as Above	0	No	
	18	18" Grey fine SAND, some silt, trace clay	0	No	
	19		0	No	
	20		8.9	Slight petroleum like odor	B-19(19-20) @ 1145
20"	21	Grey CLAY, some stone	0	No	Very Moist
	22		0	No	Wet
	23		0	No	
	24	END OF BORING @ 24' bgs	0	No	

Comments: Concrete slab below asphalt; tough pushing through. Groundwater encountered approximately 21 foot below grade. Soil samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
B-20	Location: West 57th Street	Weather: 80s Sunny	Drilling	
	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: 4' macrocore	Logged By: ER	Date: 10/5/2007	Date: 10/5/07
	Depth to Water:		Time: 0855	Time: 0905

Surface Conditions: ASPHALT

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
	1	3" CONCRETE	0	No	
24"	2	16" Brown medium SAND and GRAVEL	0	No	B-20 (1-3) @ 0905
	3	1" Large STONE	0	No	
	4	REFUSAL @ 4 feet below grade	0	No	
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: First attempt - Refusal at 5' below grade; moved to location 7 feet away for a second attempt. Second attempt - Refusal @ 4' bgs. Soil sample collected for analysis forVOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No: B-21			
Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
Location: West 57th Street	Weather: 80s Sunny	Drilling	
Drilling Method: geoprobe	Driller: Zebra	Start	Finish
Sampling Method: macrocore	Logged By: ER	Date: 10/5/2007	Date: 10/5/07
Depth to Water:		Time: 0855	Time: 0905

Surface Conditions: ASPHALT

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
24"	1	5" CONCRETE	0	No	
	2	19" Brown fine SAND, GRAVEL and STONE	0	No	
	3		0	No	B-21 (2-3) @ 0915
	4		0	No	
5"	5	Brown fine SAND, GRAVEL, and STONE	0	No	
	6	REFUSAL @ 5 feet below grade			
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Macro-core refusal @ 5 feet below street level. Soil sample collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No:	Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
	Location: West 57th Street	Weather:	Drilling	
B-22	Drilling Method: geoprobe	Driller: Zebra	Start	Finish
	Sampling Method: macrocore	Logged By: ER	Date: 10/1/2007	Date: 10/1/07
	Depth to Water:		Time: 0915	Time: 1000

Surface Conditions: CONCRETE

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
	1		0	No	
0"	2	NO RECOVERY	0	No	
	3		0	No	
	4		0	No	
	5	6" Brown medium SAND, some stone	0	No	B-22(4-5) @ 9:40
40"	6	26" Dark brown sandy SILT	0	No	
	7	8" dark brown medium SAND, trace silt and clay, trace stone	0	No	
	8		0	No	
	9	6" Brown fine-medium SAND	0	No	B-22(8-9) @ 10:05
30"	10	24" Dark brown SILT, some clay, trace fine sand, wood chips at bottom (possible FILL)	0	No	Moist
	11		0	No	
	12		0	No	Moist
	13	10" Dark brown/black SAND and SILT	0	No	
38"	14	20" Brown SAND and SILT	0	No	Very Saturated
	15	8" Dark brown/black very fine SAND	0	No	
	16		0	No	Moist
	17		0	No	
30"	18	Black SAND, GRAVEL, and STONE	0	No	
	19		0	No	Wet
	20		0	No	
	21	26" Same as above	0	No	Saturated
30"	22	4" reddish orange STONE and ROCK	0	No	
	23	END OF BORING @ 24' bgs	0	No	
	24		0	No	

Comments: Groundwater encountered approximately 13 feet below grade. Set PVC to collect groundwater sample. Collected B/MW-22 @ 10:15; slight petroleum-like odor. Soil and groundwater samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

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Soil Boring Log

Boring No: B-23			
Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
Location: West 57th Street	Weather: 80s sunny	Drilling	
Drilling Method: geoprobe	Driller: Zebra	Start	Finish
Sampling Method: 4' macrocore	Logged By: ER	Date: 10/5/2007	Date: 10/5/07
Depth to Water:		Time: 0930	Time: 0950

Surface Conditions: Asphalt

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
18"	1	Brown fine SAND, some large rock	0	No	
	2		0	No	
	3		0	No	B-23 (1-3) @ 0940
	4		0	No	
38"	5	Brown fine-medium SAND, some gravel, trace silt	0	No	
	6		0	No	
	7		0	No	
	8		0	No	
24"	9		0	No	
	10	Same as above OYSTER SHELLS at 9-9.5 feet bgs	0	No	
	11	REFUSAL @ 10 feet below grade due to large rock			
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Macro-core refusal @ 10 feet below street level. Soil sample collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

AKRF, Inc.
Environmental Consultants

Soil Boring Log

Boring No: B-24			
Job Number: 10886	Client: Avalon Bay	Sheet 1 of 1	
Location: West 57th Street	Weather: 80s Sunny	Drilling	
Drilling Method: geoprobe	Driller: Zebra	Start	Finish
Sampling Method: 4' macrocore	Logged By: ER	Date: 10/5/2007	Date: 10/5/07
Depth to Water:		Time: 1235	Time: 1300

Surface Conditions: Concrete

Recovery	Depth	Soil Description	PID	Staining/Odors	Sample ID/Comments
38"	1	6" CONCRETE	0	No	
	2	32" Greyish black and dark brown medium SAND and GRAVEL	0	No	
	3		0	No	
	4		0	No	
40"	5	Grey fine SAND	0	No	B-24 (4-5) @ 1255
	6		0	No	Wet
	7		0	No	Saturated
	8		0	No	
38"	9	Grey fine SAND, trace clay	0	No	
	10		0	No	
	11		0	No	
	12		0	No	
40"	13	Grey fine SAND	0	No	
	14		0	No	
	15		0	No	
	16	EOB @ 16 feet below the basement floor	0	No	
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				

Comments: Began boring approximately 10 feet below street level. Groundwater encountered approximately five feet below floor (approximately 15 feet below sidewalk grade). Set PVC pipe to collect groundwater sample - B/MW-24 collected @ 1310. Soil and groundwater samples collected for analysis for VOCs, SVOCs, pesticides, PCBs and metals.

APPENDIX C

Sampling Logs

GROUNDWATER FIELD SAMPLING RECORD
AKRF, INC

GENERAL INFORMATION:

PROJECT NAME:	835 11th Avenue	**DATE:**	11/12/2009
JOB #:	10886	**WELL DIAMETER:**	2"
WELL #:	MW-1	**LOCATION:**	north of building
WELL PERMIT #:		**WEATHER:**	cloudy, 60F

I. INITIAL MEASUREMENTS:

PID/FID (ppm):	0	**TOTAL WELL DEPTH (ft.):**	18.42
FREE PRODUCT (inches):	none	**DEPTH TO WATER (ft.):**	15.76
pH:	NA	**WATER COLUMN HEIGHT:**	2.66
TEMPERATURE (C / F):	NA	**CONVERSION FACTOR:**	0.1632
SPEC. COND. (umhos/cm):	NA	**GALLONS IN WELL:**	0.43
TDS:	NA	**TO PURGE (gals.):**	1.30
TURBIDITY:	2.38 NTU		

II. WELL EVACUATION:

METHOD (check one):

Submersible Pump:	
Peristaltic Pump:	
Hand Bailer:	X
Whaler Pump:	
Other (describe):	

CONVERSION FACTOR: (check one):

GALS./LINEAR FT.	WELL DIAM	
0.1632	2"	X
0.6528	4"	
1.4688	6"	

PURGE START:	8:25	**pH:**	NA
PURGE STOP:	9:10	**TEMPERATURE (C / F):**	NA
PURGING TIME (min):	45	**SPEC. COND. (umhos/cm):**	NA
PURGE RATE (gals/min):		**TDS:**	NA
GALLONS PURGED:	approx. 1.3	**TURBIDITY:**	212 NTU
		RECHARGE RATE (gals/min):	

III. SAMPLING:

WITHDRAWAL (check one):

PUMP (describe):	
BAILER (describe):	X

pH:	NA
TEMPERATURE (C / F):	NA
SPEC COND. (umhos/cm):	NA
TDS:	NA
TURBIDITY:	199 NTU

SAMPLE START TIME:	9:15
SAMPLE STOP TIME:	10:02
SAMPLE ID #:	MW-1 (11/12)
FIELD BLANK/ TRIP BLANK #:	
NO. OF CONTAINERS:	4
PHYSICAL APPEARANCE:	slightly cloudy
ODOR:	none
REFRIGERATED/TIME:	10:05

COMMENTS:

PROJECT MANAGER:	MG
FIELD STAFF:	AK

GROUNDWATER FIELD SAMPLING RECORD
AKRF, INC

GENERAL INFORMATION:

PROJECT NAME:	835 11th Avenue	**DATE:**	11/12/2009
JOB #:	10886	**WELL DIAMETER:**	2"
WELL #:	MW-2	**LOCATION:**	west of building
WELL PERMIT #:		**WEATHER:**	cloudy, 60F

I. INITIAL MEASUREMENTS:

PID/FID (ppm):	0	**TOTAL WELL DEPTH (ft.):**	22.20
FREE PRODUCT (inches):	none	**DEPTH TO WATER (ft.):**	17.96
pH:	NA	**WATER COLUMN HEIGHT:**	4.24
TEMPERATURE (C / F):	NA	**CONVERSION FACTOR:**	0.1632
SPEC. COND. (umhos/cm):	NA	**GALLONS IN WELL:**	0.69
TDS:	NA	**TO PURGE (gals.):**	2.08
TURBIDITY:	52.3 NTU		

II. WELL EVACUATION:

METHOD (check one):

Submersible Pump:	
Peristaltic Pump:	
Hand Bailer:	X
Whaler Pump:	
Other (describe):	

CONVERSION FACTOR: (check one):

GALS./LINEAR FT.	WELL DIAM	
0.1632	2"	X
0.6528	4"	
1.4688	6"	

PURGE START:	11:45	**pH:**	NA
PURGE STOP:	12:10	**TEMPERATURE (C / F):**	NA
PURGING TIME (min):	25 min	**SPEC. COND. (umhos/cm):**	NA
PURGE RATE (gals/min):		**TDS:**	NA
GALLONS PURGED:	approx. 2.1	**TURBIDITY:**	out of range
		RECHARGE RATE (gals/min):	

III. SAMPLING:

WITHDRAWAL (check one):

PUMP (describe):	
BAILER (describe):	X

pH:	NA
TEMPERATURE (C / F):	NA
SPEC COND. (umhos/cm):	NA
TDS:	NA
TURBIDITY:	109.3 NTU

SAMPLE START TIME:	12:15
SAMPLE STOP TIME:	12:40
SAMPLE ID #:	MW-2 (11/12)
FIELD BLANK/ TRIP BLANK #:	
NO. OF CONTAINERS:	4
PHYSICAL APPEARANCE:	cloudy
ODOR:	slight petroleum-like
REFRIGERATED/TIME:	12:45

COMMENTS:
Slight petroleum-like odor and sheen on purge water and sample, but no free product.

PROJECT MANAGER:	MG
FIELD STAFF:	AK

GROUNDWATER FIELD SAMPLING RECORD
AKRF, INC

GENERAL INFORMATION:

PROJECT NAME:	835 11th Avenue	**DATE:**	11/12/2009
JOB #:	10886	**WELL DIAMETER:**	2"
WELL #:	MW-3	**LOCATION:**	east of building
WELL PERMIT #:		**WEATHER:**	light rain, 60F

I. INITIAL MEASUREMENTS:

PID/FID (ppm):	0	**TOTAL WELL DEPTH (ft.):**	22.30
FREE PRODUCT (inches):	none	**DEPTH TO WATER (ft.):**	16.20
pH:	NA	**WATER COLUMN HEIGHT:**	6.10
TEMPERATURE (C / F):	NA	**CONVERSION FACTOR:**	0.1632
SPEC. COND. (umhos/cm):	NA	**GALLONS IN WELL:**	1.00
TDS:	NA	**TO PURGE (gals.):**	3.00
TURBIDITY:	1.34 NTU		

II. WELL EVACUATION:

METHOD (check one):

Submersible Pump:	
Peristaltic Pump:	
Hand Bailer:	X
Whaler Pump:	
Other (describe):	

CONVERSION FACTOR: (check one):

GALS./LINEAR FT.	WELL DIAM	
0.1632	2"	X
0.6528	4"	
1.4688	6"	

PURGE START:	10:20	**pH:**	NA
PURGE STOP:	10:40	**TEMPERATURE (C / F):**	NA
PURGING TIME:	20 min	**SPEC. COND. (umhos/cm):**	NA
PURGE RATE (gals/min):		**TDS:**	NA
GALLONS PURGED:	approx. 3.0	**TURBIDITY:**	281 NTU
		RECHARGE RATE (gals/min):	

III. SAMPLING:

WITHDRAWAL (check one):

PUMP (describe):	
BAILER (describe):	X

pH:	NA
TEMPERATURE (C / F):	NA
SPEC COND. (umhos/cm):	NA
TDS:	NA
TURBIDITY:	135 NTU

SAMPLE START TIME:	10:50
SAMPLE STOP TIME:	11:10
SAMPLE ID #:	MW-3 (11/12)
FIELD BLANK/ TRIP BLANK #:	
NO. OF CONTAINERS:	4
PHYSICAL APPEARANCE:	slightly cloudy
ODOR:	none
REFRIGERATED/TIME:	11:15

COMMENTS:

PROJECT MANAGER:	MG
FIELD STAFF:	AK

GROUNDWATER FIELD SAMPLING RECORD
AKRF, INC

GENERAL INFORMATION:

PROJECT NAME:	835 11th Avenue	**DATE:**	11/12/2009
JOB #:	10886	**WELL DIAMETER:**	2"
WELL #:	MW-4	**LOCATION:**	south of building
WELL PERMIT #:		**WEATHER:**	light rain, 60F

I. INITIAL MEASUREMENTS:

PID/FID (ppm):	0	**TOTAL WELL DEPTH (ft.):**	19.30
FREE PRODUCT (inches):	none	**DEPTH TO WATER (ft.):**	18.06
pH:	NA	**WATER COLUMN HEIGHT:**	1.24
TEMPERATURE (C / F):	NA	**CONVERSION FACTOR:**	0.1632
SPEC. COND. (umhos/cm):	NA	**GALLONS IN WELL:**	0.20
TDS:	NA	**TO PURGE (gals.):**	0.61
TURBIDITY:	9.23 NTU		

II. WELL EVACUATION:

METHOD (check one):

Submersible Pump:	
Peristaltic Pump:	
Hand Bailer:	X
Whaler Pump:	
Other (describe):	

CONVERSION FACTOR: (check one):

GALS./LINEAR FT.	WELL DIAM	
0.1632	2"	X
0.6528	4"	
1.4688	6"	

PURGE START:	13:25	**pH:**	NA
PURGE STOP:	13:40	**TEMPERATURE (C / F):**	NA
PURGING TIME (min):	15	**SPEC. COND. (umhos/cm):**	NA
PURGE RATE (gals/min):		**TDS:**	NA
GALLONS PURGED:	approx. 0.6	**TURBIDITY:**	155.6 NTU
		RECHARGE RATE (gals/min):	

III. SAMPLING:

WITHDRAWAL (check one):

PUMP (describe):	
BAILER (describe):	X

pH:	NA
TEMPERATURE (C / F):	NA
SPEC COND. (umhos/cm):	NA
TDS:	NA
TURBIDITY:	269 NTU

SAMPLE START TIME:	13:45
SAMPLE STOP TIME:	14:10
SAMPLE ID #:	MW-4 (11/12)
FIELD BLANK/ TRIP BLANK #:	
NO. OF CONTAINERS:	4
PHYSICAL APPEARANCE:	slightly cloudy
ODOR:	none
REFRIGERATED/TIME:	14:15

COMMENTS:

PROJECT MANAGER:	MG
FIELD STAFF:	AK

Well Sampling Log

Job No:	**11402**	**Client:** TF Cornerstone	**Well No:**
Project Location:	W 57th Street	**Sampled By:** C.Richard/M.Balletta	**MW-1**
Date:	**10/23/2013**	**Sampling Time:** 13:30	
PID at surface:	0.0 ppm		

Total Depth:	18.00 ft. below top of casing	**Water Column (** 2.29 feet	*= 0.163 * WC for 2" wells
Depth to Water:	15.71 ft. below top of casing	**Well Volume*:** 0.37 gallons	*= 0.653 * WC for 4" wells
Depth to Product:	none detected ft. below top of casing	**Volume Purged:** appx 1 liter	*= 1.469 * WC for 6" wells
Depth to top of screen:	8.00 ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	18.00 ft. below top of casing	**Purging Device (pump type):**	
Approx. Pump Intake:	17-17.5 ft. below top of casing	QED Low flow bladder pump	

Time	**Depth to Water** (Ft.)	**Temp** (^{o}C)	**Conductivity** (mS/cm)	**DO** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
920	15.71	17.89	5.08	4.09	6.83	173.0	23	slight petroleum-like odor, well pumped dry after 10 minutes
925	16.48	19.66	4.76	3.75	7.37	158.0	134	
930	NA	22.61	4.57	5.61	7.58	140.0	NA	
Stabilization Criteria:			**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOCs, SVOCs

Well Sampling Log

Job No:	**11402**	**Client:**	TF Cornerstone
Project Location:	W 57th Street	**Sampled By:**	C.Richard/M.Balletta
Date:	**10/23/2013**	**Sampling Time:**	14:30
PID at surface:	0.0 ppm		

Well No: **MW-2**

Total Depth:	21.70 ft. below top of casing	**Water Column (**	2.5 feet	*= 0.163 * WC for 2" wells
Depth to Water:	19.12 ft. below top of casing	**Well Volume*:**	0.41 gallons	*= 0.653 * WC for 4" wells
Depth to Product:	NA ft. below top of casing	**Volume Purged:**	1 liter	*= 1.469 * WC for 6" wells
Depth to top of screen:	12.00 ft. below top of casing	**Well Diam.:**	2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	22.00 ft. below top of casing	**Purging Device (pump type):**	QED Low flow bladder pump	
Approx. Pump Intake:	21-21.5 ft. below top of casing			

Time	**Depth to Water** (Ft.)	**Temp** (^{o}C)	**Conductivity** (mS/cm)	**DO** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
1238	19.90	17.84	1.4	1.13	7.14	-102.0	374	slight sheen and slight petroleum-like odor, well pumped dry after 15 minutes
1243	20.81	18.29	1.39	0.80	6.86	-108.0	295	
1248	NA	18.29	1.39	0.65	6.79	-111.0	273	
Stabilization Criteria:			**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOCs, SVOCs

Well Sampling Log

Job No:	**11402**	**Client:** TF Cornerstone	**Well No:**
Project Location:	W 57th Street	**Sampled By:** C.Richard/M.Balletta	**MW-3**
Date:	**10/23/2013**	**Sampling Time:**	
PID at surface:	0.0 ppm		
Total Depth:	21.70 ft. below top of casing	**Water Column (** 4.5 feet	*= 0.163 * WC for 2" wells
Depth to Water:	17.20 ft. below top of casing	**Well Volume*:** 0.73 gallons	*= 0.653 * WC for 4" wells
Depth to Product:	NA ft. below top of casing	**Volume Purged:** 2 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen:	12.00 ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	22.00 ft. below top of casing	**Purging Device (pump type):**	
Approx. Pump Intake:	21-21.5 ft. below top of casing	QED Low flow bladder pump	

Time	Depth to Water (Ft.)	Temp (^{o}C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1030	17.30	17.51	6.1	1.65	7.64	133.0	NA	
1035	17.56	17.87	6.03	1.08	7.66	134.0	800	
1040	17.88	18.03	5.78	1.55	7.55	133.0	175	
1045	18.00	17.96	5.74	1.46	7.46	132.0	89.6	
1050	18.20	17.97	5.72	1.36	7.43	132.0	65.3	
1055	18.34	18.05	8.72	1.20	7.38	130.0	55.5	
1100	18.71	18.05	5.76	0.85	7.37	129.0	62.8	
1105	19.01	17.88	5.78	0.83	7.38	127.0	48.9	
1110	19.21	17.83	5.78	0.79	7.38	127.0	47.8	
Stabilization Criteria:			**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOCs, SVOCs

Well Sampling Log

Job No:	**11402**	**Client:** TF Cornerstone	**Well No:**
Project Location:	W 57th Street	**Sampled By:** C.Richard/M.Balletta	**MW-4**
Date:	**10/23/2013**	**Sampling Time:** NA	
PID at surface:	0.0 ppm		
Total Depth:	18.80 ft. below top of casing	**Water Column (** 0 feet	*= 0.163 * WC for 2" wells
Depth to Water:	none detected ft. below top of casing	**Well Volume*:** 0.00 gallons	*= 0.653 * WC for 4" wells
Depth to Product:	none detected ft. below top of casing	**Volume Purged:** 0 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen:	9.00 ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	19.00 ft. below top of casing	**Purging Device (pump type):**	
Approx. Pump Intake:	not sampled ft. below top of casing	none needed	

Time	**Depth to Water** (Ft.)	**Temp** (^{o}C)	**Conductivity** (mS/cm)	**DO** (mg/L)	**pH**	**ORP** (mV)	**Turbidity** (NTU)	**Comments** (problems, odor, sheen)
Well dry - Not sampled								
Stabilization Criteria:			**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

AKRF, Inc.
Environmental Consultants

Soil Vapor Sampling Log

Job No:	11402	**Client:**	TF Cornerstone
Project Location:	606 West 57th Street,Ny,Ny	**Sampled By:**	GB/JBS/BP
Date:	5-5-14		

Sample ID: AA-1

Canister ID: 334

Flow Controller ID: 0166

Purging

Time Started: NA

Time Stopped: NA

Vol. Purged: 1.0 liters

Flow Rate: 0.2 L/min

Laboratory Sample (Summa Canister)

Time Started:	1045	**Vacuum:**	-29.89 inHg
Time Stopped:	1245	**Vacuum:**	-5.63 inHg

Field Sample

PID Calibration: 0845

Time Started:

Time Stopped:

PID Reading:

He Reading

AKRF, Inc.

Environmental Consultants

Soil Vapor Sampling Log

Job No:	11402	**Client:**	TF Cornerstone
Project Location:	606 West 57th Street,Ny,Ny	**Sampled By:**	GB/JBS/BP
Date:	5-5-14		

Sample ID:	SV-1
Canister ID:	331
Flow Controller ID:	0067

Purging

Time Started:	0900	
Time Stopped:	0905	
Vol. Purged:	1.0	liters
Flow Rate:	0.2	L/min

Laboratory Sample (Summa Canister)

Time Started:	0910	**Vacuum:**	-30.49 inHg
Time Stopped:	1110	**Vacuum:**	-3.40 inHg

Field Sample

PID Calibration:	0845
Time Started:	0907
Time Stopped:	0908
PID Reading:	5.3 ppm
He Reading	100 pm

AKRF, Inc.

Environmental Consultants

Soil Vapor Sampling Log

Job No:	11402	**Client:**	TF Cornerstone
Project Location:	606 West 57th Street,Ny,Ny	**Sampled By:**	GB/JBS/BP
Date:	5-5-14		

Sample ID:	SV-2
Canister ID:	436
Flow Controller ID:	0283

Purging

Time Started:	0922
Time Stopped:	0927
Vol. Purged:	1.0 liters
Flow Rate:	0.2 L/min

Laboratory Sample (Summa Canister)

Time Started:	0930	**Vacuum:**	-29.75 inHg
Time Stopped:		**Vacuum:**	-4.70 inHg

Field Sample

PID Calibration:	0845
Time Started:	0927
Time Stopped:	0928
PID Reading:	7.4 ppm
He Reading	ND

AKRF, Inc.

Environmental Consultants

Soil Vapor Sampling Log

Job No:	11402	**Client:**	TF Cornerstone
Project Location:	606 West 57th Street,Ny,Ny	**Sampled By:**	GB/JBS/BP
Date:	5-5-14		

Sample ID:	SV-3
Canister ID:	413
Flow Controller ID:	0453

Purging

Time Started:	0940	
Time Stopped:	0945	
Vol. Purged:	1.0	liters
Flow Rate:	0.2	L/min

Laboratory Sample (Summa Canister)

Time Started:	0946	**Vacuum:**	-30.13 inHg
Time Stopped:		**Vacuum:**	-6.80 inHg

Field Sample

PID Calibration:	0845
Time Started:	0945
Time Stopped:	0946
PID Reading:	2.3 ppm
He Reading	ND

AKRF, Inc.

Environmental Consultants

Soil Vapor Sampling Log

Job No:	11402	**Client:**	TF Cornerstone
Project Location:	606 West 57th Street,Ny,Ny	**Sampled By:**	GB/JBS/BP
Date:	5-5-14		

Sample ID:	SV-4
Canister ID:	505
Flow Controller ID:	0378

Purging

Time Started:	1022	
Time Stopped:	1027	
Vol. Purged:	1.0	liters
Flow Rate:	0.2	L/min

Laboratory Sample (Summa Canister)

Time Started:	1030	**Vacuum:**	-29.79 inHg
Time Stopped:	1230	**Vacuum:**	-5.30 inHg

Field Sample

PID Calibration:	0845
Time Started:	1028
Time Stopped:	1029
PID Reading:	1.0 ppm
He Reading	ND

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Soil Vapor Sampling Log

Job No:	11402	**Client:**	TF Cornerstone
Project Location:	606 West 57th Street,Ny,Ny	**Sampled By:**	GB/JBS/BP
Date:	5-5-14		

Sample ID:	SV-5
Canister ID:	376
Flow Controller ID:	0391

Purging

Time Started:	1203	
Time Stopped:	1208	
Vol. Purged:	1.0	liters
Flow Rate:	0.2	L/min

Laboratory Sample (Summa Canister)

Time Started:	1209	**Vacuum:**	-30.27 inHg
Time Stopped:	1409	**Vacuum:**	-5.67 inHg

Field Sample

PID Calibration:	0845
Time Started:	1208
Time Stopped:	1209
PID Reading:	11.2 ppm
He Reading	ND

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Soil Vapor Sampling Log

Job No:	11402	**Client:**	TF Cornerstone
Project Location:	606 West 57th Street,Ny,Ny	**Sampled By:**	GB/JBS/BP
Date:	5-5-14		

Sample ID:	SV-6
Canister ID:	232
Flow Controller ID:	0150

Purging

Time Started:	1156	
Time Stopped:	1201	
Vol. Purged:	1.0	liters
Flow Rate:	0.2	L/min

Laboratory Sample (Summa Canister)

Time Started:	1202	**Vacuum:**	-30.32 inHg
Time Stopped:	1402	**Vacuum:**	-6.17 inHg

Field Sample

PID Calibration:	0845
Time Started:	1201
Time Stopped:	1202
PID Reading:	1.2 ppm
He Reading	875 ppm

AKRF, Inc.

Environmental Consultants

Soil Vapor Sampling Log

Job No:	11402	**Client:**	TF Cornerstone
Project Location:	606 West 57th Street,Ny,Ny	**Sampled By:**	GB/JBS/BP
Date:	5-5-14		

Sample ID:	SV-7
Canister ID:	549
Flow Controller ID:	0061

Purging

Time Started:	1145	
Time Stopped:	1150	
Vol. Purged:	1.0	liters
Flow Rate:	0.2	L/min

Laboratory Sample (Summa Canister)

Time Started:	1152	**Vacuum:**	-29.75 inHg
Time Stopped:	1352	**Vacuum:**	-1.84 inHg

Field Sample

PID Calibration:	0845
Time Started:	1150
Time Stopped:	1151
PID Reading:	1.7 ppm
He Reading	360 ppm

APPENDIX D

Laboratory Data Deliverables

UNDER SEPARATE COVER