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November 9, 2017

Michael Haggerty
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-1011

RE: Revised Remedial Investigation Work Plan
Third Avenue Yard (Site No. C224245)
222 First Street, Kings County, Brooklyn, New York

Dear Mr. Haggerty:

Enclosed for your review and approval is the Revised Remedial Investigation Work Plan (RIWP) for the Third Avenue Yard site based on your September 07, 2017 comments on the July 24, 2017 RIWP. The RIWP was prepared and submitted in accordance with the provisions of Brownfield Site Cleanup Agreement Index No. C224245-01-17.

Please feel free to contact me at 718-204-4252 should you have any questions or if you need any assistance during your review of this submittal.

Sincerely,

John Cole
Project Manager
EH&S, Remediation
Consolidated Edison Company of NY, Inc.

Attachments: Revised Remedial Investigation Work Plan for Third Avenue Yard

cc: S. Dewes (NYSDEC)
K. Mintzer (NYSDEC)
G. Rys (NYSDOH)
K. Klesh (Con Edison)
N. O'Halloran (Con Edison)
Correspondence File

REVISED REMEDIAL INVESTIGATION WORK PLAN

BROWNFIELDS CLEANUP PROGRAM (BCP)

THIRD AVENUE YARD SERVICE CENTER

222 FIRST STREET, BROOKLYN, NEW YORK

(NYSDEC BCP SITE NO: C224245)



CONSOLIDATED EDISON CO. OF NEW YORK, INC.

31-01 20th Avenue

Long Island City, NY 11105

Prepared by:

CON EDISON

NOVEMBER 2017

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List of Acronyms

BCP	Brownfield Cleanup Program
CAMP	Community Air Monitoring Plan
Con Edison	Consolidated Edison of New York LLC
cy	cubic yards
DER-10	Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation
DNAPL	Dense Non-Aqueous Phase Liquid
ft	feet
ft bgs	feet below ground surface
HAS	hollow stem auger
LNAPL	Light Non-Aqueous Phase Liquid
MGP	Manufacturing Gas Plant
NAD83	1983 North American Datum
NAVD88	North American Vertical Datum 1988
NYSDEC	New York State Department of Environmental Conservation
PAHs	Polycyclic aromatic hydrocarbons
PCBs	Polychlorinated Biphenyls
PDI	Pre-Design Investigation
Property	Third Avenue Yard
PSC	Public Service Commission
PVC	Poly Vinyl Chloride
RAWP	Remedial Action Work Plan

RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
rmsl	relative to mean sea level
SI	Site-wide Investigation
TCLP	Toxicity characteristic leaching procedure
TPH	Total petroleum hydrocarbon
TSCA	Toxic Substance Control Act
USCS	Unified Soil Classification System
USGS	United States Geological Survey
UST	Underground Storage Tanks
VEFR	Vacuum Enhanced Fluid Recovery
VOCs	Volatile Organic Compounds

1.0 Introduction

Consolidated Edison of New York LLC (Con Edison) has prepared the following work plan to implement a Remedial Investigation (RI) at the Third Avenue Yard (Property). The Property (40°40'28.83''North; 73°59'13.12'' West) is located in a commercial and industrial area in Brooklyn, New York (**Figure 1-1**) and is used as a 24 hour utility service center for regional operations. Con Edison submitted an application to enter into the New York State Brownfield Cleanup Program (BCP) on October 3, 2016 for this Property, and was accepted into the program and assigned the New York State Department of Environmental Conservation (NYSDEC) site number C224245. This work plan was developed in accordance with the DER-10, the NYSDEC Technical Guidance for Site Investigation and Remediation.

1.1 Remedial Investigation Objectives

This work plan provides a description of the RI activities that will be implemented at the Property. The primary objective of the additional assessment is to address existing data gaps identified from previous site investigations and/or site activities within the Property. The findings from the RI will be used to further characterize the nature and extent of contamination on the Property. The resulting information will be utilized to identify appropriate measures for future management of the Property. The following contaminants, which were previously identified in the subsurface at the Property during previous investigations and other site activities, will be the focus of this RI:

- Petroleum impacted soil related to former underground storage tanks (USTs);
- Polychlorinated Biphenyls (PCBs) in shallow soil beneath the paved parking lot;
- Elevated concentrations of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) potentially related to manufacturing gas plant (MGP) residue in soils and groundwater;
- Metals in site soils; and,
- Light non-aqueous phase liquid (LNAPL), VOCs, SVOCs, and PCBs in groundwater.

1.2 Scope of Work

In order to achieve the objectives outlined above, the RI will include the following field tasks:

- Verifying the absence of underground utilities at proposed boring locations;
- Advancement of 73 soil borings to depths ranging up to 35 feet below ground surface (ft bgs);
    - Collection of soil samples for analysis of: VOCs, SVOCs, metals, pesticides and PCBs;
- Installation of fourteen groundwater monitoring wells on-site and around the perimeter of the Property to evaluate potential off-site migration of contaminants in groundwater;
- Repair and/or re-installation of nine damaged monitoring wells within the Property boundary;
- Installation of five piezometers within the Property boundary to determine flow patterns around the dry wells during high flow events;
- Collection of groundwater samples for analysis of VOCs, SVOCS, metals, pesticides and PCBs;
- Collection of LNAPL samples from new wells (if present) for fingerprint analysis

- Gauging water and LNAPL levels in new and existing wells to develop a comprehensive site-wide groundwater flow map to determine a predominant direction of groundwater flow at the Property; and
- Surveying of all existing and new groundwater monitoring wells and soil sample locations.

The proposed investigation locations as described in Section 5 of this work plan were selected to augment existing soil and groundwater data to delineate the horizontal and vertical extent of previously identified contamination in soil and groundwater. Data and information collected as a result of these RI field activities will be documented in a RI Report. An operational Site history was developed for the 3rd Avenue Yard and its surrounding area using New York Telephone, public service commission (PSC) reports, historical maps (Sanborn maps and Atlas maps), aerial photographs, and information provided by Con Edison.

2.0 Site Location Description

2.1 Location and Current Land Use

The Property is located at 222 First Street, Brooklyn, New York and is situated approximately 900 feet (ft) east of the nearest reach of Gowanus Canal and approximately 500 ft northeast of the 4th Street turning basin. The Site occupies a city block (approximately 6.77 acres) and is bound to the north by 1st Street, to the south by 3rd Street, to the west by 3rd Avenue, and to the east by 4th Avenue. The Property is zoned M1-2 (industrial) and currently used by Con Edison as an active service center with various functional areas. Operations include indoor storage, pole/cable reel storage, operation of fleet fuel dispensing, auto repair garage, parking of fleet and staff vehicles, administrative offices, and flush truck area. The surrounding area is used for predominantly commercial/ light industrial operations.

2.2 Current Site Features

The Property layout is illustrated on **Figure 2-1**. The Property is completely fenced with gated access points on 3rd and 1st Streets and entirely covered by contiguous impervious surfaces consisting of buildings, asphalt pavement, concrete sidewalks and pads.

The five functional areas that occupy the majority of the Property area are shown in **Figure 2-2** and described briefly below and in **Table 2-1.**

i. **Stores Building**: Used for storage of equipment, material and supplies; covering approximately 32,000 square feet; located on the north corner of the Property along 3rd Avenue and 1st Street;

ii. **Operations and Transportation Building/New Facility Building**: Offices and a vehicle repair garage; covering approximately 70,000 square feet; located across the southeastern portion of the Property;

iii. **Pole/Cable Reel Storage Area**:Used for storage of equipment; open paved area of approximately 23,000 square feet; located southeast of the Stores building;

iv. **Flush Truck Facility**: Receives and processes water/sludge from manhole pump-outs; covering approximately 8,000 square feet; located on the south corner of the Property near the intersection of 4th Avenue and 3rd Street;

v. **Paved Parking Areas**: Asphalt paved remainder of the Property.

2.3 Past Use of Property

The chronology of the area of Brooklyn where the Property is currently located is summarized below.

- Prior to the mid-19th century, the area where the Property is located consisted of tidal marsh.
- By the mid-19th century, the portion of the marshland within the current site footprint was dammed to create Denton's Mill Pond. Based on historic topographic maps, the pond occupied the majority of the current Property footprint.
- During the 1850's to 1860's, the site (and the pond) was backfilled and leveled with dredge material generated during construction of the Gowanus Canal.
- During the period from the mid-1800s to approximately 1926, a series of baseball parks were constructed and operated on the site.
- In 1926, the ball park grandstands were converted into warehouse space.
- Between 1918 and the time the Site was acquired by Brooklyn Edison (predecessor to the Con Edison) in 1925, the site was used mainly for warehouse and trucking operations.
- Between 1925 to until the early 1960's, the site was used by two gasoline stations that were located at the northeastern and the southeastern portions of the Property.
- Between 1945 and 1947, the Site was re-graded and re-paved and in the late 1940s, the garage/warehouse on the western portion of the Site was extended to the north. This extension is now utilized as the current Stores Building.
- In 1947, a concrete pit was constructed on the southern corner of the Property for dewatering sludge recovered from Con Edison electric manholes/vaults. This pit was connected to the municipal sewer and was utilized until 1974 when it was decommissioned and the current Flush Truck facility was constructed in the same location.

3.0 Site Geography, Geology and Hydrogeology Background

3.1 Topography and Drainage

The local topography in the vicinity of the Property slopes gradually to the west towards the Gowanus Canal based on the United States Geological Survey (USGS) topographic map of the area (**Figure 1-1**). The Property surface is relatively flat and ranges in elevation from approximately 16 to 22 ft relative to mean sea level (rmsl) based on North American Vertical Datum 1988 (NAVD88). Based on the survey data of ground elevation at previous boring and monitoring well locations, the ground surface is highest around the center of the Property and generally slopes northwest towards 3rd Avenue.

Due to the topography and configuration of the Site, surface runoff from paved surfaces is captured in on-site catch basins which connect to the municipal storm sewer system or discharge into drywells located in the Demolition Area in the westernmost portion of the Property.

3.2 Site Geology

The land on which the subject property is located was created in the 1850s and 1860s during extensive backfilling of the Gowanus Creek drainage basin as part of the construction of the Gowanus

Canal. Two geologic cross sections of the Site were developed. Cross section locations are illustrated on **Figure 3-1** and the cross sections are illustrated on **Figure 3-2** and **Figure 3-3**.

Soil beneath the Property is comprised of fill material from below the asphalt to depths ranging from approximately 15 to 30 ft bgs or elevations of approximately 5 to -10 ft rmsl NAVD88. The fill is continuous across the Site and includes sand and silt, gravel, cobbles, concrete, brick, slag, cinders, coal fragments, glass, wood, shells, and metal. Fill material extends from the ground surface to as deep as 33 ft bgs (-13 ft rmsl NAVD88) near the center of the Site at MW-C10D. Fill material is frequently difficult to distinguish from underlying native sand and gravel unless it contains anthropogenic material or directly contacts the silt/clay and peat zone. Sand and gravel without anthropogenic material is present above the silt/clay and peat zone in some portions of the Site as illustrated on the cross sections (**Figures 3-2** and **3-3**).

Fill material overlies discontinuous layers of sand and gravel observed without anthropogenic material followed by a silt zone containing a discontinuous clay and peat layer. A sand and silt zone was encountered beneath the silt zone from approximately 44 ft bgs (-24 ft rmsl NAVD88) to a depth of at least 60 ft bgs. Bedrock was not encountered beneath the Site during the SI activities in 2015.

3.3 Site Hydrogeology

Based on water level measurements in shallow monitoring wells (i.e., screened in the fill layer across the water table), the depth to groundwater ranges from 7 to12 ft bgs. The depth to groundwater measured in the deep wells (i.e., screened in the deeper sand and gravel layer) ranges from 15 to 17 ft bgs.

Site-wide gauging events were performed in 2014 and 2015. Due to identification of damaged wells, the 2015 event was not as comprehensive as the 2014 event and only the results for the 2014 event is provided for shallow groundwater in **Figure 3-4** and for deep groundwater in **Figure 3-5**. The gauging data for the wells is provided in **Table 3-1**. The gauging results indicate that shallow groundwater flows in a northwestern direction across the Site. In 2014, the SI gauging events in the deep wells illustrate a somewhat radial flow pattern in the eastern two-thirds of the Site with flow indicated to the south, west, and northwest. Deep groundwater flow near 3rd Avenue appears to be to the north and to the west. Since only one site-wide event is available, further study of the groundwater flow is required.

4.0 Summary of Environmental Investigations

Extensive environmental investigation has been conducted at the Property, including an UST closure assessment in 1998 and a recent Site-Wide Investigation (SI) in 2015. As shown in **Figure 4-1**, more than a 100 soil borings were advanced and more than 40 groundwater monitoring wells were installed during the various site investigation phases. During these activities, over 140 soil samples and at least 80 groundwater samples were collected and sent to an analytical laboratory for analysis.

Based on analytical data for soil and groundwater samples collected from 1998 to present, VOCs, SVOCs, PCBs, metals and TPH were detected at elevated concentrations in at least one sample. The analytical results of the various investigations are shown in **Appendix A** and summaries of the major investigation activities are described in the following sections.

Under the BCP the 3rd Ave Yard Site is being managed in a holistic manner. Historically the investigations focused on the following areas and as shown in **Figure 4-2**:

- South UST Area: Area contained two 2,500 gallon gasoline and diesel fuel USTs ; located within the south central portion of the parking lot;
- Former North UST Area: Area previously contained gasoline and diesel USTs for storage and dispensing;
- Former Employee Parking Lot: Smaller asphalt parking lot used for personal vehicles; located on the east corner of the Property at the intersection of 4th Avenue and 1st Street;
- Demolition Area: Area where buildings were demolished; located on the west corner of the Property at the intersection of 3rd Avenue and 3rd Street.

4.1 Underground Storage Tank (UST) Related Activities

In 1998, four USTs in the Former North UST and South UST areas and 535 tons of petroleum impacted soils were excavated and post-excavation samples were collected and analyzed for toxicity characteristic leaching procedure (TCLP) VOCs and Resource Conservation and Recovery Act (RCRA) list of SVOCs to complete the UST closure process. The activities are detailed in the 2001 Site Characterization Report (Jacques Whitford Company, Inc., 2001). Elevated VOCs were observed in post-excavation soil samples and groundwater samples which warranted further soil excavation and the collection of supplemental post-excavation samples. Site characterization activities were conducted in December 2000 in the vicinity of the Former North UST Area and the South UST Area (each defined in **Figure 4-2**). A total of 17 soil borings and 13 groundwater monitoring wells were installed in these areas. Samples were analyzed for VOCs, SVOCs, and metals. Based on the findings of this Site Characterization, it was recommended that a formal groundwater monitoring program and a corrective action plan be implemented. Routine groundwater sampling began in 2004.

In 2002 and 2003 fourteen USTs were removed and three PCB areas were excavated within the Former Employee Parking Lot shown in **Figure 4-2**. The activities are detailed in the UST Closure, Investigation and Remediation Report (Jacques Whitford Company, Inc., 2004). Fifteen test pits were excavated as part of pre-construction activities to further characterize historic, low-level PCB concentrations in subsurface soil at the south side of the former employee parking lot. Approximately 7,155 cubic yards (cy) of soil were excavated and disposed of as non-hazardous waste and 860 cy as hazardous waste. The waste classification as hazardous was based on elevated concentrations of PCBs or lead, and/or benzene. Based on the analytical results for endpoint soil samples, the NYSDEC issued Con Edison a No Further Action letter in 2004 with respect to PCBs in soil and groundwater in this area.

In March 2005, Vacuum Enhanced Fluid Recovery (VEFR) was implemented as a corrective action at monitoring wells where LNAPL had been detected including a well in the South UST Area (MW-14S) and wells in the Former Employee Parking Lot. Thirty-one VEFR events (monthly and quarterly, post June 2008) were performed at the site. The VEFR activities were concluded in June 2011 in response to the absence of recoverable products.

Soil and groundwater delineation and groundwater monitoring (monthly gauging and quarterly sampling) has been conducted since 2004 within the Former North UST and South UST Areas. To date, nine monitoring wells including three off-site wells have been installed in these areas. These wells have been subjected to periodic groundwater sampling events with the latest rounds in September 2015 and May 2016. The results of these sampling events will be finalized and provided to the Department.

Three subsequent supplemental site investigation work plans were developed and implemented between 2010 and 2012. In accordance with the August 2010 Soil Delineation Work Plan Addendum, a total of eight soil borings in the South UST Area were advanced to delineate the extent of free-phase petroleum product and impacted soils around monitoring well MW-14S. Soil analytical results indicated the need for further delineation. Subsequently, a Remedial Alternative Evaluation and Remedial Action Work Plan (RAWP) was developed in February 2012 (AECOM, 2012), and a Pre-Design Investigation (PDI) was conducted to complete delineation (AECOM, 2013). The results of the PDI were reported to NYSDEC in February 2013 and the implementation of the RAWP is pending.

4.2 Demolition Area Work and Associated Investigations

In 2010, as part of Con Edison's redevelopment activities, three buildings located on the western side of the Property were demolished. During demolition, petroleum-impacted soil and free product were detected. An investigation to delineate and characterize the soil and groundwater was initiated in January 2011. The investigation was conducted in two areas referred to as the Open Excavation Area and the Drywell Area. Potential impacts to soil and groundwater were evaluated by excavating three test pits, advancing twelve soil borings and installing three monitoring wells. The soil and groundwater samples were analyzed for VOCs, SVOCs and PCBs. The results of the investigation revealed volatile organic VOCs and SVOCs in soil and groundwater above their applicable NYSDEC remediation standards. Subsequent RI field activities were performed in 2012.

4.3 2015 Site-Wide Investigation

A Site-Wide Investigation (SI) was performed from 2013 through 2015. The SI was conducted to further evaluate the extent of impacts previously identified in the Demolition Area and the South UST Area, as well as along segments of the perimeter of the property. The initial SI (SI - Phase 1) was conducted from May through August 2013 and December 2013 through February 2014. A supplemental site investigation (SI - Phase 2) designed to augment the existing information and fill in data gaps was conducted from July through October 2015. During both phases, twelve shallow grab soil samples were collected from the 0 to 0.5 and 0.5 to 1 ft bgs intervals. These samples were analyzed for VOCs, SVOCs, PCBs, and metals. Additionally, 31 subsurface soil borings were advanced with continuous sampling beginning at 5 ft bgs. Groundwater monitoring wells were installed at 31 locations. The wells were completed as twelve shallow and deep pairs and seven lone deep wells. The findings from this investigation were summarized in the 2016 Site-Wide Investigation Report that was submitted to the NYSDEC

4.4 2015 Re-Paving Project

In 2015, Con Edison began a project to re-pave the main parking lot of the Property. The re-paving activities included stripping the asphalt and immediately underlying soils, before re-paving the surface. Repaving plans included removal of all asphalt (where present) and excavation of 8 to 16 inches of soil depending on established grade, followed by installation and compaction of 11 inches of placed fill, road base and asphalt or concrete. In addition, six drywells were installed in the former Demo Area (**Figure 4-3**). These wells were part of the additional storm water drainage system required due to the re-paving of the entire site. The wells are 12 ft in diameter and installed to approximately 12 ft bgs and are interconnected with piping.

In an effort to minimize disruption to the facility's traffic flow the re-paving was implemented in five phases corresponding to the areas designated in **Figure 4-3** as a rolling operation where stripping and excavation was immediately followed by re-paving**.** Materials characterization and management started with sampling of accumulated stockpiles in earlier phases of the project and was later modified

to an in-situ sampling protocol ion response to site conditions encountered during the course of the re-paving activities.

Phase 1

Phase 1 is located in the northwestern corner of the property west of the Stores building. It is bounded by the Stores building to about 30 feet off of the Stores building corner towards 4th Avenue and 75 ft off of the corner of the Stores building towards 1st Street and the parameter fencing along 3rd Street and 3rd Avenue. It was the only unpaved area at the Site prior to the re-paving project due to the just concluded demolition of the building adjacent to the Stores Building. In this area, soil was excavated for the dry wells to 12 feet and the remainder of the area was excavated from 8 to 16 inches depending on established grade. Samples for material characterization were collected from accumulated stockpiled soil. The area was re-paved with asphalt.

Phase 2

The Phase 2 area was the area covering the 1st Street entrance (North Entrance) to the facility and the area between the gas pumps and the entrance to the Stores building including the fenced-in cable storage yard. The Stores building is approximately 40 feet west of the western fence line of the cable storage yard. First Street runs along the northern boundary of this phase area. It was originally covered with both asphalt and concrete. All concrete areas were left in place. The asphalt was removed along with 8 to 16 inches of soil and stockpiled. Samples for waste characterization were collected from the stockpiles. The surface was replaced with concrete.

Phase 3

Phase 3 was defined as the area around the current fuel island and access area to both the garage structure and building; it extended towards 3rd Avenue 50 ft along the edge of the cable storage area and included the area between the cable storage area and the Stores building. The surface was originally an asphalt pavement which was stripped and excavated between 8-16 inches depending on established grade and was replaced with sub-base and asphalt. The soil in Phases 1, 2 and part of 3 were stockpiled prior to sampling. Samples for disposal characterization were collected and composited from the stockpiles.

During excavation work in the Phase 3 area, elevated PCB concentrations were detected within a sealed service box located within the Phase 4 area (**Figure 4-3**). The service box was a 2x2 feet wide and four feet deep underground concrete manhole structure that housed electrical relay cables. Based on the elevated PCB concentrations detected within the service box, in situ discrete samples within the top 10 inches were collected from the rest of the undisturbed areas in Phase 3 and composited in accordance with Clean Earth's sampling protocol. This protocol was implemented in the remaining areas (i.e. Phase are 4 and 5) as described below.

Phase 4

Phase 4 was the phase area in which the service box was located in the central portion of the parking lot within the property. The area was bordered by Phase 1, Phase 2, the operations and transportation building and the Phase 5 areas. Sampling within this phase area was treated similar to the undisturbed sections of the Phase 3 area. Prior to excavation, discrete samples were collected within the top 10 inches and composited. The sample locations are shown in **Figure 4-3**.

In June 2015, Clean Earth's disposal facility performed preliminary quality assurance tests that revealed elevated PCB concentrations in the soil, resulting in the suspension of all soil shipments. The remaining on-Site stockpiled soil from Phase 4 and a dirt walkway (exposed area due to the demolition of the building adjacent to the Stores building) leading to the Stores Building were tested for PCBs. The areas that the stockpiled soils were removed from and the concentrations of the stockpile grab samples are provided in **Figure 4-3**. The sample locations from the top 10 inches of the dirt-way are shown in **Figure 4-3**. Phase 4 was excavated and re-paved with asphalt.

Phase 5

In June 2015 grab samples were collected from 0 to 10 inches in the Phase 5 area. The Phase 5 area was in the southern area along 3rd Street, it was approximately 140 ft wide and extended from the Phase 1 area to the operations and transportation building and extends to include the natural gas fuel system. The locations of the samples are shown in **Figure 4-3**. Phase 5 was paved after the asphalt cover was stripped. No soil excavation was performed in the Phase 5 area. The paving activities were completed in mid-July 2015.

4.5 Nature and Extent of Contamination

Shallow Surface Soil Quality: As detailed in the 2016 Site-Wide Investigation Report, shallow soils (upper 5 ft of the soil) were analyzed for VOCs, PAHs, metals and PCBs. The samples were collected at various depth intervals ranging from 0 to 0.5 ft bgs, 0.5 to 1 ft bgs, 0 to 1 ft bgs or 1 to 5 ft bgs. Some of the soil samples had concentrations of PAHs, metals and/or PCBs that exceed the Commercial Soil Cleanup Objectives (**Figure 4-4**). Presently, there is no potential risk of exposure to the soil underlying the site as they are isolated by ubiquitous surface cover consisting of the paved parking lot, concrete pads, and or building foundations slabs.

Subsurface Soil Quality: Subsurface soils (i.e., greater than five ft bgs) were sampled within the South UST Area, Former North UST Area, Demolition Area and Former Employee Parking Lot and analyzed for VOCs, PAHs, metals, PCBs. The concentrations of these constituents detected in subsurface soil samples are summarized in **Figure 4-5** for VOCs, **Figure 4-6** for PAHs and Figure **4-7** for PCBs. There is no current potential exposure to the subsurface soil (and groundwater) as the Property is completely paved outside of the building areas.

Groundwater Quality: As shown in **Figure 4-8**, elevated concentrations of VOCs (total BTEX) and PAHs were detected in shallow groundwater primarily in the central and northern portions of the Property. At monitoring well pair locations (i.e., co-located shallow and deep wells), the samples collected from the shallow wells (screened around 6 to 20 ft bgs) contained concentrations of VOCs and PAHs up to three orders of magnitude higher than samples collected at the deeper wells (screened around 35 to 55 ft bgs). This suggests that the potential of vertical migration of contaminants is substantially low, which could be attributed to low permeability material (i.e., marsh deposits - silt/clay/peat layer). Based on the groundwater samples from existing wells there is no evidence of off-site migration of contaminants, however there are elevated VOC concentrations in monitoring well MW-8 located on the sidewalk along 4th Avenue.

***LNAPL*:** LNAPL has historically been detected in wells in the UST areas. During the SI, only MW-4 located in the Demolition Area had product present. Samples of the product in MW-4 indicate that the LNAPL is a mixture of tar-like material with weathered gasoline and kerosene (possible naphtha or condensate). LNAPL impacts are limited to the area around MW-4.

5.0 Remedial Investigation Scope of Work

The proposed Remedial Investigation activities are described below. The data gathered will be used with data from the previous investigations to further assess the nature and extent of potential impacts to soil and groundwater at the site.

5.1 Underground Utility Clearance

Prior to conducting any intrusive work, the Contractor will follow all State, local and the Con Edison Utility Clearance protocols for conducting intrusive activities. These protocols will include but are not limited to contacting Dig Safely New York to arrange for the location and marking of all underground utilities in the vicinity of the proposed boring locations and evaluating and reconciling copies of available city sewer and water maps from the Site vicinity during underground utility clearance procedures. The Contractor will review utility plates provided by Con Edison prior to drilling and also contract a private company to locate all underground electric and gas utilities in the vicinity of each proposed subsurface sampling location using geophysical methods. Lastly, all boring locations will be hand or vacuum excavated to a depth of five feet to check for any utilities not located by “Dig Safe” or geophysical methods.

5.2 Soil Borings and Sampling

The soil samples will be used to delineate the horizontal and vertical extent of impacts and to address some of the data gaps from the previous investigations. In some cases, the previous samples had large distances (horizontally) or intervals (vertically) between samples with exceedances of the Soil Cleanup Objectives (SCOs) for PCBs and PAHs and samples with no exceedances. With the exception of samples collected from 0 to 2 inches, all the samples will be analyzed for PCBs, SVOCs and metals. In addition, 25 percent of the samples will be analyzed for VOCs and pesticides. In areas that were not previously excavated, 25 percent of the locations will have samples collected in the 0 to 2 inch interval. These samples will only be analyzed for PCBs.

Previous investigations have shown that the PCB and potential MGP-related contamination is contained within the fill. Beneath the fill in some areas of the Property is a native layer of meadow mat. It is assumed that the meadow mat acts as a confining layer and contamination has not migrated below this layer. Accordingly, soil borings will be advanced to the top of the native material. In most cases this will be defined by the clay/peat layer (meadow mat). In some areas of the site the meadow mat is not present and the borings will end at 35 ft bgs. Based on previous investigations, a depth of 35 ft bgs should ensure the boring ends beyond the fill layer. During drilling, soil cores will be collected continuously to depth.

As shown in **Figure 5-1**, 73 soil boring locations will be advanced to depths up to 35 ft bgs. All the samples will include surface samples. Sampling protocols, including sampling grid intervals are specified in 40 CFR Part 761 for PCB remediation. A 50 ft grid interval (2500 sq. ft.) for sampling on all areas not covered by a structure was established. The investigation includes characterizing the top 0-6 inches or 0-2 inches for risk assessment purposes directly below the sub-base. These samples will include some sampling of clean material (clean backfill). Additional discrete samples will be collected in six inch intervals below the asphalt, concrete, sub-base or clean backfill (where present). A total of 153 unique samples will be collected to characterize the surface soil.

Of the 73 soil boring locations, subsurface characterization is proposed at 32 boring locations in the Demo Area, Southern Area and Northern Areas. In addition, two borings were added in the Flush Truck Area and two to the Former Employee Parking Lot based on NYSDEC comments. The surface

will be characterized and sampled as described below. A discrete sample from the 2 to 4 ft interval below the sub-base or clean backfill will be collected. The remainder of the boring will be sampled as described below. Up to 165 subsurface samples will be collected.

The first five feet of the borings will be excavated using soft dig methods in accordance with Con Edison utility clearance protocols. After the first five feet, drilled cores will be collected in five foot or two feet intervals using direct push and hollow stem auger (HSA) drilling methods, respectively. Each interval will be described using the Unified Soil Classification System (USCS), examined for physical evidence of contamination (staining, sheen, residual product, odors, etc.) and screened for total VOCs using a PID.

A summary of the soil sample intervals and rationale is provided in **Table 5-1** and the locations are shown in **Figure 5-1**. A conceptual model of the sampling protocol is provided in **Table 5-1A**. In addition to collecting samples from the most impacted soil, a sample below the deepest impacted soil will be collected to provide vertical delineation of the contamination. Due to the presence of tanks in the Flush Tank Area, the sample locations may be modified. The East parking lot was remediated by excavation. Samples will not be collected from the concrete, pavement or sub-base which was placed during remediation or repaving. Soil samples will be collected as described below:

- The soil samples will be continuously field screened with a PID in six inch increments and visually inspected for textural composition and any contaminant characteristics. To the extent possible, the geologist will distinguish between MGP, petroleum, and other impacts.
- Samples will be collected with a hand auger for samples within the top 5 feet during hand clearance and a core barrel or split spoon sampler for deeper subsurface samples

The surface sampling protocol will be as follows:

- Surface samples are considered all samples collected within the 0-24” below the pavement subbase layer. Zero depth is assumed to be the interface between the sub-base and backfill material and, where present, ambient soil.
- Samples will be collected from the 0 to 2 inch interval at 25 percent of locations in areas not previously backfilled with at least 10 inches of clean material. The samples will be collected at 0 to 2 inches below the asphalt, concrete or sub-base (where present). The samples will be analyzed for PCBs only.
- In areas previously backfilled as part of the repaving project with at least 10 inches of clean material, discrete surface samples will be collected in the upper 2 ft of soil. At 25 percent of the locations 0 to 6 inches will be sampled to confirm the material is acceptable. The 0 to 6 inch sample will be collected below the asphalt, concrete or road base (where present). Samples will not be collected from the pavement or sub-base. These samples will be in clean backfill material if present. The next surface samples will be collected within the ambient soil. Discrete samples will be collected in the first 6 inches of ambient soil and second 6 inch interval of ambient soil.
- In areas not previously excavated and backfilled, discrete samples will be collected from the 0 to 6, 6 to 12, 12 to 18 inch intervals.
- No surface samples will be collected in areas excavated/backfilled as part of DEC-approved remediation (2004 UST excavation).

For subsurface sampling:

- Soils will be inspected continuously down to a depth of 35 ft. bgs or to native material, whichever is encountered first. Native material is defined as the presence of discernible tidal marsh deposits, such as meadow mat (peat), silt and/or light gray sands or clay layer.
- A sample will be collected from 2 to 4 ft below the asphalt, concrete, sub-base or clean backfill. In the areas excavated/backfilled as part of DEC-approved remediation (2004 UST excavation) no sampling is required until the ambient soil is encountered at approximately 12 ft.
- If no impacted soil is detected (e.g., elevated PID readings, odors or staining) between 4 feet bgs and the water table, a sample will be collected just above the water table interface for immediate analysis.
- If impacted soil is detected between 4 feet bgs and the water table, one sample of the most impacted soil will be collected and will be sent to the lab for immediate analytical analysis.
- If impacted soil is detected between the water table and the bottom of the boring one sample of the most impacted soil will be collected. The sample will be sent to the lab for immediate analytical analysis.
- If impacted soil is present in the boring (above or below the water table), an additional sample will be collected from the first clean interval below the bottom of the deepest impacted zone.
- Material based on professional judgment classified as native and lacking any physical evidence of impact will not be collected for analysis. Unless, it is the first clean interval below the bottom of the deepest impacted zone.

Samples will be analyzed for PCBs, SVOCs and metals. In addition, 25 percent of the samples will be sampled for VOCs and pesticides.

5.3 Well Installation

The proposed new monitoring wells are located to achieve spatial representativeness around the perimeter of the Property and will be incorporated into the existing well network. The new wells will be installed in a manner and procedure as outlined below.

- Twelve (12) shallow and 2 deep (total of 14) temporary monitoring wells will be installed through direct push or HSA techniques. The shallow and deep well pairs will be located adjacent to each other, not nested. The proposed locations are shown in **Figure 5-2**. Deep wells are proposed along 3rd Avenue and 1st Street (BMW-28D and BMW-29D) due to high PAH concentrations in nearby deep wells. No deep wells are proposed on 2nd Street since the deep wells in this area do not show elevated PAHs. No deep wells are proposed on 4th Avenue since the groundwater data consistently indicates this area is upgradient of the site. Two wells were added in the Flush Tank Area, one well was added in the vicinity of the former soil boring D-12 and one well was added near the service box for further assessment from previous results and observations.
- Wells will be constructed of 2-inch diameter schedule 40 poly vinyl chloride (PVC) screen and casing with ten foot screens (0.02 inch slots).
- The shallow wells will be installed and completed to straddle the water table with the screen at least 5 feet into the water table.
- The deep wells will be screened above the existing deeps wells shown in the cross sections in **Figure 3-2** and **Figure 3-3**. The screen will be completely located in the silt zone or sand and gravel zone above the clay/peat layer (where present). The depth of the deep wells

installed will range from 30 to 40 ft bgs and wells will be installed to the clay/peat layer. For deep wells with evidence of Dense Non-Aqueous Phase Liquid (DNAPL) the wells will be screened at least 5 feet above and five feet below the DNAPL interval.

- The wells will be checked for product using a bailer and/or an oil/water interface probe. If product is not detected, the well will be developed using surging and pumping methods.
- The wells will be completed at grade with 8-inch diameter flush-mount manholes and secured with locking caps.
- After installation and development, the wells will be allowed to stabilize for two weeks prior to sampling.

5.4 Well Restoration

Nine wells within the Property boundary that were damaged will be repaired or re-installed. The specifications of the nine wells that require restoration are listed in **Table 5-2.** The location of the wells is shown in **Figure 5-2.** If the wells cannot be repaired, they will be abandoned and re-installed following the well installation protocols above to the depths provided in **Table 5-2**.

5.5 Piezometers

Five piezometers will be installed around the dry well area shown in **Figure 5-2**. The piezometers will be constructed of minimum 1-inch diameter schedule 40 poly vinyl chloride (PVC) screen and casing pipes with ten foot screens (0.02 inch slots). The piezometer screens will be installed across the water table interface with the screen at least 5 feet into the water table. The piezometers will be used to gauge the groundwater flow in the immediate vicinity of the dry wells during high flow events.

5.6 Groundwater Sampling and Gauging

After the stabilization period, the wells will be gauged and checked for the presence of product. An initial round of groundwater gauging will include all the new wells and existing wells. Details for the existing wells are provided in **Table 3-1**. The gauging event will provide an updated list of the wells that are still active an available for sampling. Based on comments from NYSDEC the new wells and a subset of the existing wells will be sampled for VOCs, SVOCs, metals, pesticides and PCBs. A summary of the monitoring wells that will be sampled is provided in **Table 5-1** and the locations are shown in **Figure 5-3**. The list may be revised based on the results of the initial gauging event. Groundwater samples will be collected via low flow sampling procedures. Samples will be collected into clean laboratory-provided sample bottles containing appropriate preserving agents. Bottles will then be sealed, label and placed in a cooler containing ice pending transport to the laboratory.

The groundwater sampling rationale is as follows:

1. At least one round of gauging data and groundwater sampling for analytical analysis will be conducted in the existing functional and newly installed wells shown in **Figure 5-3**.
2. Any temporary well with no product or sheen and no contaminants detected above NYSDEC GW Standards will be decommissioned in accordance with the NYSDEC CP 43 protocol.
3. If LNAPL is detected during gauging, a sample of the product will be collected for hydrocarbon fingerprinting in lieu of the aqueous sample.

5.7 Laboratory Analysis

All samples will be sent to Hampton-Clarke Veritech Laboratory for analysis which is a third-party laboratory and accredited by the NYSDOH Environmental Laboratory Accreditation Program

("ELAP"). Laboratory analytical methods will include the most current NYSDEC Analytical Services Protocol ("ASP").

Soil samples sent to a certified laboratory will be analyzed in accordance with EPA SW-846 methodology for the following contaminants:

- VOCs (EPA Method 8260)
- SVOCs (EPA Method 8270)
- Target Analytes List for Metals and Mercury (EPA Method 6010 and 7471B)
- Pesticides/PCBs (USEPA 8081/8082)

Groundwater samples sent to a certified laboratory will be analyzed in accordance with EPA SW-846 methodology for the following contaminants:

- VOCs (EPA Method 8260)
- SVOCs (EPA Method 8270)
- Target Analytes List for Metals and Mercury (EPA Method 200.7 or 200.8 and 7470A or 245.1)
- Pesticides/PCBs (USEPA 8081/8082)

LNAPL samples sent to a certified laboratory will be analyzed for one of the following:

- Fingerprint analysis by gas chromatography/mass spectrometry-selective ion monitoring and wide range gas chromatography/flame ionization detector

5.8 Quality Assurance Project Plan

A quality assurance project plan (QAPP) is provided in **Appendix B**. A summary of the container volumes, types, preservation and holding times is outlined in **Table 5-3**. The number and frequency of field duplicates, field blanks, matrix spike and matrix spike duplicates are outlined in **Table 5-4**.

Samples will be collected immediately preserved on ice. The samples will be shipped or couriered to a laboratory with Environmental Laboratory Accreditation Program (ELAP) accreditation. Turnaround time is standard. The USEPA does not specify a holding time for PCBs in soil. Many labs use a default of two weeks. However, significantly longer holding times are acceptable and will not compromise the quality of the data. An acceptable holding time for PCBs in soil beyond two weeks is one year to extraction and 40 days from extraction to instrumental analysis (held in cold storage 4±2 degrees C); these data would be qualified as estimated. The data will be validated in accordance with the requirements specified in the QAPP (**Appendix B**).

5.9 Data Usability

All data will be validated in accordance with the requirements specified in the QAPP (**Appendix B**). A Data Usability Summary Report (DUSR) will be prepared by a third-party using the most recent methods and criteria from the USEPA. The DUSR will assess all analytical data, blanks, duplicates and laboratory control samples and evaluate the completeness of the data package.

5.10 Survey

A survey including the horizontal location and elevation of all soil borings and new (including re-installed) monitoring wells will be conducted by a New York State-licensed surveyor. All locations will

be tied into the existing base map developed for the Site. Elevations will be referenced to the NAVD 1988 and determined with a field accuracy of 0.01 ft. The horizontal locations will be surveyed to an accuracy of 0.1 ft and co-ordinates will be provided in Universal Transverse Mercator (UTM) coordinates and referenced to the 1983 North American Datum (NAD83).

5.11 Health and Safety Plan

All RI activities will be conducted in accordance with the Health and Safety Plan provided in **Appendix C**.

5.12 Community Air Monitoring Program

Community air monitoring requires real-time monitoring for VOCs, particulates (i.e., dust), and MGP-related odors at each designated work area when certain activities are in progress at the Site. The community air monitoring is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-Site receptors including residences and businesses and on-Site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative work activities. The Community Air Monitoring Plan (CAMP) provided in **Appendix D** specifies action levels which require increased monitoring, corrective actions to abate emissions, and/or work shutdown. PIDs used to monitor VOCs will be equipped with a 10.6eV lamp.

During drilling operations, a barrier will be placed around the drill rig work area (consisting of double-rail barricades: one rail waist height and one rail ankle height).

5.13 Investigation Derived Waste Management

All investigation waste generated during the RI will be collected in properly labeled 55-gallon drums and grouped by environmental matrix. The drum storage pad will consist of pallets located on plastic (minimum 3 millimeters [mm] thick) with a berm around the perimeter. The plywood will be screwed in place over the pallets to facilitate moving drums around on the pad. The berm will be constructed with a lip (created by lumber, 3-inch PVC or 4-inch PVC) overlain with plastic (minimum 3 mm thick). The drums will be labeled as investigation derived soils and subsequently characterized with the following analyses:

- PCBs (USEPA Method 8082A)
- TPH (USEPA Method 8015D)
- Reactive Cyanide (SW846 7.3.3)
- Ignitability (USEPA Method 1030) and pH (USEPA Method 9040C/9045D)
- Reactive Sulfide (USEPA SW846 7.3.4)
- TCLP SVOCs (USEPA Method 8270D) and TCLP VOCs (USEPA Method 8260C)
- TCLP Metals (USEPA Method 6010C 17470A)

All waste will be disposed of at a Con Edison-approved waste facility.

6.0 Reporting

All the information and data obtain from the activities of this remedial investigation will be presented in a report that will include:

- Site Background
- Summary of Existing Conditions
- Summary of Field Activities
- Summary of Field Observations and Measurements
- Summary of Soil and Groundwater Quality
- Discussion of Findings
- Qualitative Exposure Assessment
- Conclusions and Recommendations
- Figures
    - Sampling Location
    - Groundwater Elevation Contour and Flow
    - Summary of Soil Analytical Data
    - Summary of Groundwater Analytical Data
- Tables
    - Summary of Field Observations and Measurements
    - Well Construction Summary Table
    - Summary of Gauging Data
    - Summary of Water Quality Parameters Measured During Groundwater Sampling
    - Soil Analytical Data
    - Groundwater Analytical Data
- Attachments
    - Soil Boring and Well Construction Logs
    - Data Usability Summary Report

Laboratory data packages will be made available upon request.

A qualitative exposure assessment will be included in the report. The evaluation will determine actual or potential exposures of receptors to the contaminants. The assessment will be developed following the guidance in DER-10.

Since Con Edison is a volunteer in the BCP, off-site field information is only needed sufficient to identify the presence of contamination and support the qualitative off-site exposure assessment for these sites.

Human, fish and wildlife receptors will be addressed in the evaluation. A resource evaluation will be conducted to evaluate fish and wildlife resources, but few receptors are likely to be identified due to

the industrial land use and complete covering of the site by man-made surfaces (concrete, asphalt, and buildings).

The qualitative human health exposure assessment will identify exposure pathways based on past, present or future events, potentially exposed receptors, and how unacceptable exposures can be eliminated. The five elements associated with exposure pathways will be addressed (source, release and transport mechanisms to exposed populations, potential exposure points to actual or potential human contact, routes of exposure (ingestion, inhalation, dermal absorption), and characterization of the receptor population). Complete and incomplete exposure pathways will be identified.

A quantitative risk assessment will not be conducted because the remedial program is undertaken by a volunteer in the BCP.

7.0 Schedule

The Site is an active yard. The Site work will be performed during specific times to limit the disruption to the activities in the yard. The majority of the work is expected to occur from 10 AM to 2 PM and possibly during weekends. It is assumed that two borings are completed per day because of time restrictions, pre-clearing the borings and drum handling. The work (including preparation and permitting and reporting) is not expected to take approximately 12 months. A detailed work schedule will be submitted after the work plan has been approved.

8.0 References

AECOM, 2012. Draft Remedial Alternative Section Report and Remedial Action Work Plan (RAWP), May 2012.

AECOM, 2013. Proposal to Implement the Site Investigation at the 3rd Avenue Service Center, April 29, 2013.

AECOM, 2013. Proposal for Additional Field Activities and Report for the 3rd Avenue Service Center, October 14, 2013.

AECOM 2013. Pre-Design Investigation (PDI) Memorandum, February 2013.

AECOM, 2016. 3rd Avenue Yard, Brooklyn, New York, Site-Wide Investigation Report. January 2016.

Bartlett, Ludlam & Dill Associates, 2000. Survey of Property in the Borough of Brooklyn, County of Kings City and State of New York. 3rd Avenue Service Center. Drawing Number 325244-0-0. Issued. March 2000.

City of Brooklyn, 1880. Street Atlas.

City of Brooklyn, 1886. Street Atlas.

City of Brooklyn, 1907. Street Atlas.

Con Edison, 1980. New Fuel Dispensing Facility Drawings. 3rd Avenue Service Center. Drawing Numbers A219020-2, A219021-0, and A214798-1. February 27, 1980.

Con Edison, 1991. Site Survey of Block #968, Lot #1 Situated in the Borough of Brooklyn City and State of New York. Drawing Number A92-1825. July 1991, updated February 5, 1996.

Con Edison, 2009a. Demolition Plan. 3rd Avenue Service Center. Drawing Number 370417-0-0. April 24, 2009.

Con Edison, 2009b. Conduit and Duct Occupancy Plate. 3rd Avenue Service Center. Plate No. 39-N. March 11, 2009.

Con Edison, 2009c. Low Tension Mains and Service Plate. 3rd Avenue Service Center. Plate No. 39-N. April 20, 2009.

Con Edison, 2009d. Letter to Brian Carr, Esq. Assistant Regional Counsel, New York/Caribbean Superfund Branch, Office of Regional Counsel, USEPA. Subject: Response of Consolidated Edison Company of New York, Inc. to EPA's CERCLA § 104(e) Request for Information In Connection With Proposed Gowanus Canal Superfund Site, Brooklyn, New York.

Con Edison, 2011a. 3rd Avenue Yards Modify/Rebuild Parking Yard Demolition Plan. 3rd Avenue Service Center. Drawing Number A-101.00. July 8, 2011.

Con Edison, 2011b. 3rd Avenue Yards Modify/Rebuild Parking Yard Site Construction Plan. 3rd Avenue Service Center. Drawing Number C-101.00. April 26, 2011.

Con Edison, 2012. South Remedial Excavation. 3rd Avenue Service Center. Drawing Number BR-3549. October 15, 2012.

First Environment, Inc., 2013, Remedial Investigation Summary and Proposed Activities report for the Demo Area. 3rd Avenue Service Center. February 19, 2013.

HAKS Engineers, P.C., 2010. Survey. 3rd Avenue Service Center. Issued for Record Purposes. Drawing Numbers 378200-0-0 and 378201-0-0. September 29, 2010.

Hunter Research, 2011. Draft Archeological Sensitivity Study Gowanus Canal, Brooklyn Borough, City of New York Kings County, New York. Prepared for USEPA. December 2011.

Jacques Whitford Company, Inc., 2001. Site Characterization Report. 3rd Avenue Service Center.

Jacques Whitford Company, Inc., 2004. UST Closure, Investigation and Remediation Report, Former Employee Parking Lot, April 2004.

NAEVA Geophysics Inc., 2011. Letter summarizing the results of a geophysical investigation in the parking lot of the 3rd Avenue Service Center. March 25, 2011.

NYSDEC, 2010. DER-10 / Technical Guidance for Site Investigation and Remediation, May 2010.

USEPA, 1996. USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

USEPA, 1999. USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, EPA 540/R-99-008, May 1999.

USEPA, 2006. Guidance on Systematic Planning Using the Data Quality Objectives Process. EPA QA/G-4. EPA/240/B-06/001. February.

USEPA, 2008. USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, USEPA-540-R-07-003, July 2008.

Walter T. Gorman, P.E., P.C. Consulting Engineers, 1997. Survey. 3rd Avenue Service Center. Drawing Number 2-CK-DR-C. October 1, 1997.

Tables

Table 2-1
Current Site Functional Areas
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

Functional Area	Location on Property	Use	Footprint (sq ft)
Stores Building	North corner	Storage of equipment material & supplies	32,000
Operations / Transport Building & New Facility Building	Southeastern portion of property	Offices / vehicle maintenance garage	70,000
Pole/Cable Reel Storage	Southeast of Stores Building	Storage of utility poles and cable reels	23,000
Flush Facility	South corner (intersection of 4th Ave and 3rd St.)	Collection and process of water/sludge from manhole pumpouts	8,200
Paved Parking Areas	Central portion of property and East corner (intersection of 4th Ave and 1st St.)	Parking and Loading Areas	153,000

Table 3-1
2014 and 2015 Monitoring Well Gauging Summaries

3rd Avenue Yard, Brooklyn, New York

Monitoring Well ID	Total Depth (ft bgs)	Screened Interval (ft bgs)	Top of Riser Elevation (NAVD88)	Depth to Water 4/1/2014 from Top of Riser (ft bgs)	Groundwater Elevation 4/1/2014 (NAVD88)	Top of Riser Elevation 9/10/2015 (NAVD88)	Depth to Water 9/10/2015 from Top of Riser (ft bgs)	Groundwater Elevation 9/10/2015 (NAVD88)	2015 Notes
MW-C1S	16	6 - 15.5	17.91	7.59	10.32	17.84	7.47	10.37	
MW-C1D	48	38 - 47.5	17.86	15.25	2.61	17.8	15.18	2.62	
MW-C2D	45	35 - 44.5	17.32	15.41	1.91	17.28	6.15	11.13*	
MW-C3D	46	39 - 44	18.59	15.98	2.61	18.59	NA	NA	
MW-4D	58	46 - 56	17.7	15.77	1.93	17.7	NA	NA	
MW-C4D	48.5	37 - 46.5	18.97	15.45	3.52	18.99	16.31	2.68	
MW-C4S	20.5	9 - 18.5	18.87	9.20	9.67	18.88	8.36	10.52	
MW-C5D	54	42 - 52	18.36	15.76	2.60	18.38	15.96	2.42	Damaged
MW-C5S	18	6 - 16	18.3	8.41	9.89	18.3	NA	NA	Damaged
MW-C6D	50	38 - 48	18.98	15.19	3.79	18.56	15.57	2.99	Damaged
MW-C7D	50	38 - 48	19.14	15.60	3.54	19.13	15.93	3.20	Damaged
MW-C7S	17.5	6 - 15.5	19.4	9.22	10.18	19.36	NA	NA	Damaged
MW-C8D	55	43 - 52.5	19.46	16.09	3.37	19.5	20.66	-1.16	Damaged
MW-9N (Pole/Cable Reel Storage)									
MW-C9D	54	42 - 52	18.32	15.68	2.64	18.32	15.68	2.64	
MW-C10S	19	7 - 17	20.94	8.67	12.27	20.94	9.92	11.02	
MW-C10D	52	40 - 50	20.68	16.01	4.67	20.68	NA	NA	
MW-C11S	18	6 - 16	15.67	7.00	8.67	NA	NA	NA	
MW-C11D	54	42 - 52	15.42	12.99	2.43	NA	NA	NA	
MW-C12S	18	6 - 16	16.74	7.46	9.28	NA	NA	NA	
MW-C12D	50	38 - 48	16.73	14.52	2.21	NA	NA	NA	
MW-C13S	20	8 - 18	19.82	11.45	8.37	19.82	11.33	8.49	
MW-C13D	52	40 - 50	19.79	16.89	2.90	19.79	16.86	2.93	
MW-C14S	20	8 - 18	18.7	8.76	9.94	NA	0.00	NA	
MW-C14D	52	40 - 50	18.83	15.84	2.99	NA	0.00	NA	
MW-C15S	18	8-18	NA	NA	NA	21.94	11.15	10.79	
MW-C15D	55	45-55	NA	NA	NA	21.97	18.84	3.13	
MW-C16S	20	10-20	NA	NA	NA	20.53	11.17	9.36	
MW-C16D	55	45-55	NA	NA	NA	20.64	17.48	3.16	
MW-C17S	20	10-20	NA	NA	NA	21.02	11.59	9.43	
MW-C17D	55	45-55	NA	NA	NA	20.87	17.63	3.24	
MW-20D	49	37 - 47	19.14	15.08	4.06	19.17	NA	NA	
MW-1N	18	8 - 18	NA	9.65	NA	NA	NA	NA	
MW-2N	18	8 - 18	NA	9.98	NA	NA	NA	NA	
MW-3N	18	8 - 18	NA	9.78	NA	NA	NA	NA	
MW-4N	18	8 - 18	NA	9.13	NA	NA	NA	NA	
MW-5N	18	8 - 18	NA	NM	NA	NA	NA	NA	
MW-8N	19	NA	NA	9.35	NA	NA	NA	NA	
MW-9N (North UST)	18	NA	NA	8.87	NA	19.55	8.62	10.93	
MW10N	18	NA	NA	9.97	NA	NA	NA	NA	
MW-11S	19	4 - 19	NA	10.43	NA	NA	NA	NA	
MW-12S	18	8 - 18	NA	10.42	NA	NA	NA	NA	
MW-13S	19	4 - 19	NA	10.35	NA	NA	NA	NA	
MW-14S	19	9 - 19	NA	10.49	NA	NA	NA	NA	
MW-18S	18	8 - 18	NA	10.41	NA	NA	NA	NA	
MW-19S	18	8 - 18	NA	10.44	NA	NA	NA	NA	
MW-20S	18	8 - 18	NA	10.37	NA	19.4	8.49	10.91	
MW-21S	18	5 - 18	NA	10.38	NA	NA	NA	NA	
MW-22S	18	5 - 18	NA	10.21	NA	NA	NA	NA	
MW-23S	18	5 - 18	NA	10.39	NA	NA	NA	NA	
MW-24S	18	5 - 18	NA	10.26	NA	NA	NA	NA	
MW-1R	15	5 - 15	NA	7.69	NA	NA	NA	NA	
MW-2	15	5 - 15	NA	7.14	NA	NA	NA	NA	
MW-3	15	5 - 15	NA	7.52	NA	NA	NA	NA	
MW-4	15	5 - 15	NA	7.63	NA	17.88	8.07	9.81	
MW-5	15	5 - 15	NA	7.78	NA	NA	NA	NA	Damaged?
MW-6	15	5 - 15	NA	7.71	NA	NA	NA	NA	Damaged?
MW-7	15	5 - 15	NA	7.63	NA	NA	NA	NA	Damaged?
Former Employee Parking Lot (not included in 2014/2015 gauging events									
RW-1 (East)									
RW-2 (East)									
RW-3 (East)									
MW-1 (East)									
MW-3 (East)									
MW-4 (East)									
MW-5 (East)									
MW-6 (East)									

Notes:
NAVD88 - North American Vertical Datum of 1988.
ft bgs - feet below ground surface
NA- Not available
*Groundwater elevation data indicate this well was mislabeled by the surveyor as MW-C2D or the well is damaged.

Table 5-1
Summary of Samples
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

AECOM

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
DEMO AREA (10 Soil Boring Sample Locations - 6 Surface/Subsurface and 4 Surface Only)						
D-01	D-01-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-01-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-01-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-01-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-01-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-01-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-01-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
D-02	D-02-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-02-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-02-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-02-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-02-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-02-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
D-03	D-03-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-03-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
D-04	D-04-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-04-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
D-05	D-05-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-05-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-05-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
D-06	D-06-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

AECOM

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	D-06-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-06-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-06-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-06-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-06-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
D-07	D-07-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-07-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-07-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-07-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-07-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-07-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
D-08	D-08-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-08-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
D-09	D-09-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-09-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-09-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-09-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-09-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-09-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-09-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
D-10	D-10-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-10-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

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Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	D-10-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-10-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-10-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	D-10-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
FORMER EMPLOYEE PARKING LOT (4 Subsurface Only Soil Boring Sample Locations)						
E-01	E-01-00-02	Soil	0-2" below subbase	0-2 inches	25% of the locations not excavated	PCBs Only
	E-01-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-01-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-01-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-01-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-01-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-01-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-01-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
E-02	E-02-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-02-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-02-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-02-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-02-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-02-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-02-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
E-03	E-03-XX-YYFT	Soil	below clean backfill (approx. 12 ft) to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-03-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-03-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
E-04	E-04-XX-YYFT	Soil	below clean backfill (approx. 12 ft) to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-04-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	E-04-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)

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Summary of Samples
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Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
FLUSH TANK AREA (4 Soil Boring Sample Locations - 2 Surface/Subsurface and 2 Surface Only)						
F-01	F-01-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-01-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-01-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
F-02	F-02-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-02-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-02-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-02-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-02-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-02-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-02-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
F-03	F-03-00-02	Soil	0-2" below subbase	0-2 inches	25% of the locations not excavated	PCBs Only
	F-03-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-03-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-03-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
F-04	F-04-XX-YYFT	Soil	below clean backfill (approx. 12 ft) to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-04-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	F-04-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
NORTHERN AREA (16 Soil Boring Sample Locations - 7 Surface/Subsurface and 9 Surface Only)						
N-01	N-01-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-01-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-01-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-01-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-01-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-01-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-02	N-02-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

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Summary of Samples
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Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	N-02-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-02-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-02-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-02-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-02-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-03	N-03-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-03-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-03-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-04	N-04-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-04-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-05	N-05-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-05-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-06	N-06-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-06-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-06-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-06-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-06-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-06-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-07	N-07-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-07-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-07-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
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Third Avenue Yard Service Center, Brooklyn, New York

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Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
N-08	N-08-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-08-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-09	N-09-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-09-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-10	N-10-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-10-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-10-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-10-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-10-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-10-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-11	N-11-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-11-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-11-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-11-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-11-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-11-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-11-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-12	N-12-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-12-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-13	N-13-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-13-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

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Summary of Samples
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Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
N-14	N-14-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-14-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-15	N-15-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-15-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-15-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-15-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-15-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-15-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-15-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
N-16	N-16-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-16-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-16-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-16-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-16-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	N-16-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
SOUTHERN AREA (39 Soil Boring Sample Locations - 19 Surface/Subsurface and 20 Surface Only)						
S-01	S-01-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-01-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-01-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-01-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-01-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-01-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-02	S-02-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
Remedial Investigation Work Plan
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AECOM

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	S-02-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-03	S-03-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-03-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-03-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-03-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-03-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-03-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-03-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-04	S-04-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-04-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-04-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-04-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-04-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-04-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-04-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-05	S-05-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-05-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-05-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-05-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-05-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-05-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-05-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-06	S-06-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-06-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
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AECOM

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	S-06-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-06-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-06-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-06-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-07	S-07-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-07-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-07-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-07-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-07-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-07-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-08	S-08-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-08-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-08-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-08-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-08-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-08-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-09	S-09-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-09-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-09-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-09-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-09-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-09-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-09-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-10	S-10-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

AECOM

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	S-10-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-10-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-10-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-10-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-10-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-10-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-11	S-11-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-11-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-11-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-11-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-11-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-11-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-12	S-12-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-12-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-13	S-13-00-02	Soil	0-2" below subbase	0-2 inches	25% of the locations not excavated	PCBs Only
	S-13-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-13-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-13-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-14	S-14-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-14-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-14-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-15	S-15-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-15-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-16	S-16-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
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Third Avenue Yard Service Center, Brooklyn, New York

AECOM

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	S-16-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-16-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-17	S-17-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-17-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-17-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-18	S-18-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-18-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-19	S-19-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-19-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-19-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-19-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-19-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-19-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-19-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-20	S-20-00-02	Soil	0-2" below subbase	0-2 inches	25% of the locations not excavated	PCBs Only
	S-20-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-20-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-20-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-20-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-20-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-20-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-20-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-21	S-21-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-21-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-21-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
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Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	S-21-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-21-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-21-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-22	S-22-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-22-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-22-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-23	S-23-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-23-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-24	S-24-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-24-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-24-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-25	S-25-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-25-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-25-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-26	S-26-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-26-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-26-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-27	S-27-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-27-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-28	S-28-00-02	Soil	0-2" below subbase	0-2 inches	25% of the locations not excavated	PCBs Only
	S-28-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-28-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-28-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-28-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-28-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
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AECOM

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	S-28-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-28-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-29	S-29-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-29-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-29-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-29-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-29-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-29-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-30	S-30-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-30-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-30-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-30-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-30-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-30-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-31	S-31-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-31-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-31-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-31-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-31-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-31-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-31-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-32	S-32-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-32-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-32-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-33	S-33-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

AECOM

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	S-33-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-33-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-34	S-34-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-34-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-34-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-35	S-35-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-35-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-36	S-36-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-36-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-36-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-36-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-36-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-36-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-37	S-37-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-37-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-37-XX-YY	Soil	2-4 ft below subbase	2-4 ft	Discrete sample from the 2 to 4 ft	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-37-XX-YYFT	Soil	4 ft below subbase to water table	XX-YY	Collect at most impacted or just above the water table if not impacted	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-37-XX-YYFT	Soil	water table to bottom	XX-YY	Collect at most impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-37-XX-YYFT	Soil	below deepest impacted	XX-YY	Collect below deepest impacted (if present)	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-38	S-38-00-02	Soil	0-2" below subbase	0-2 inches	25% of the locations not excavated	PCBs Only
	S-38-00-06	Soil	0-6" below subbase	0-6 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-38-06-12	Soil	6-12" below subbase	6-12 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-38-12-18	Soil	12-18" below subbase	12-18 inches	All locations not previously excavated	SVOCs, metals, PCBs (25% VOCs and pesticides)
S-39	S-39-00-06	Soil	0-6 inches below subbase in backfill	0-6 inches	25% of locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)

Table 5-1
Summary of Samples
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

AECOM

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
	S-39-XX-YY	Soil	First 6 inch interval of historic fill below backfill	approx. 10-16 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
	S-39-XX-YY	Soil	Second 6 inch interval of historic fill below backfill	approx. 16-22 inches	All locations backfilled during repaving	SVOCs, metals, PCBs (25% VOCs and pesticides)
Groundwater Sampling						
MW-C1S		Groundwater	Shallow	N/A	Collect using Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C1D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C2D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C3D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-4D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C4D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C4S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C5D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C5S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C6D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C7D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C7S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C8D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C9D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C10S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C10D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C11S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C11D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C12S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C12D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C13S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C13D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C14S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C14D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C15S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C15D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C16S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs

Table 5-1
Summary of Samples
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
MW-C16D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C17S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-C17D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-20S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-20D		Groundwater	Deep	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
RW-3		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-4-East		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-6-East		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-7-East		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-8-East		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-1N		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-4N		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-9N		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-5		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-6		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
MW-7		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-25S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-26S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-27S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-28S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-29S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-30S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-31S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-32S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-33S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-34S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-35S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-36S		Groundwater	Shallow	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-28D		Groundwater	Intermediate	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
BMW-29D		Groundwater	Intermediate	N/A	Low Flow	VOCs, SVOCs, metals, pesticides and PCBs
LNAPL Sampling						

Table 5-1
Summary of Samples
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

Location	Sample ID	Matrix	Depth Description	Expected Depth Interval	Sample Collection Protocol	Laboratory Analysis
TBD		Oil		N/A	Collect using a bailer if LNAPL is present	Fingerprint
Gauging Only						
MW-4		Depth to Water	shallow	N/A	Not sampled due to the presence of LNAPL	Fingerprint

1. If no meadow mat is encountered the bottom of the soil borings will be 35 ft bgs, otherwise the soil boring will end at the meadow mat.
ft bgs - feet below ground surface

Table 5-1A
Site Conceptual Models

<table>
<tr><th colspan="2">Areas Not Excavated*</th><th colspan="2">Areas Previously Excavated during Repaving**</th><th colspan="2">Areas Previously Excavated during DEC-approved remediation***</th></tr>
<tr><th>Lithology</th><th>Sampling Depth</th><th>Lithology</th><th>Sampling Depth</th><th>Lithology</th><th>Sampling Depth</th></tr>
<tr><td colspan="2">asphalt and sub-base[1]</td><td colspan="2">asphalt and sub-base[1]</td><td colspan="2">asphalt and sub-base[1]</td></tr>
<tr><td rowspan="4">Ambient Soil[2] (0' - 2')</td><td>0-6" for all locations & 0-2" for 25% of locations</td><td rowspan="2">Fill from Repaving (approx. 0-10")</td><td>0-6" for 25% of locations</td><td rowspan="5">Clean Backfill from UST Closures (0 - approx. 12')</td><td rowspan="5">No surface sampling required in clean backfill unless physical evidence of sheen, product or odor is observed or detected</td></tr>
<tr><td>6-12"</td><td>No sample</td></tr>
<tr><td>12-18"</td><td rowspan="3">Ambient Soil[2] up to 2'</td><td>First 6" of Ambient Soil</td></tr>
<tr><td>No Sample</td><td>Second 6" of Ambient Soil</td></tr>
<tr><td colspan="2">Borings with Only Surface Sampling Stop at 24"</td><td>No Sample</td></tr>
<tr><td>Ambient Soil[2]</td><td>2' - 4' (one sample within this interval)</td><td>Ambient Soil[2]</td><td>2' - 4' (one sample within this interval)</td><td colspan="2" rowspan="2">In Ambient Soil[2], above the water table, one sample will be collected from the most impacted 6-inch interval. If no impacted soil[3] is detected, a sample will be collected just above the water table interface.</td></tr>
<tr><td colspan="4">Greater than 4 feet bgs and the water table, one sample will be collected from the most impacted 6-inch interval. If no impacted soil[3] is detected, a sample will be collected just above the water table interface.</td></tr>
<tr><td colspan="6">If impacted soil[3] is detected between the water table and the bottom of the boring one sample will be collected from the most impacted 6-inch interval.</td></tr>
<tr><td colspan="6">If impacted soil is present in the boring (above or below the water table), an additional sample will be collected from the first clean interval below the bottom of the deepest impacted zone.[4,5]</td></tr>
<tr><td colspan="6">End Boring at Meadow mat or 35 ft bgs, whichever is encountered first</td></tr>
</table>

Notes:

* Areas that were not excavated and backfilled. In areas not previously excavated, the 0-2 inch samples will only be analyzed for PCBs. All other samples will be analyzed for PCBs, SVOCs, and metals with 25 percent of the samples also analyzed for VOCs and pesticides.

** Areas that were excavated and backfilled during repaving with at least 10 inches of clean material. If there is no evidence of backfill, samples will be collected according to the protocol for "Areas Not Excavated".

*** Areas excavated/backfilled as part of 2004 UST excavation (i.e., F-04, E-03 and E-04). The first sample will be taken from 12' to 14' or the top two feet of ambient soil if less than 12' of backfill is present. If there is no evidence of backfill samples will collected according to the protocol for "Areas Not Excavated".

1 Asphalt and sub-base is estimated to be between 2 to 4 inches thick across the site. Zero depth is considered to be at the top of the layer immediately below the asphalt and sub-base layer. Samples will not be collected from the concrete, pavement or sub-base which was placed during remediation or repaving.

2 Ambient soil is defined as historic fill or native material (above and not including meadow mat) for this site.

3 Impacted soil will show physical evidence of sheen or product, or odor if observed or detected by PID.

4 In addition to collecting samples from the most impacted soil, a sample below the deepest impacted soil will be collected to provide vertical delineation of the contamination.

5 Material classified based on professional judgment as native and lacking any physical evidence of impact will not be collected for analysis unless it is the first clean interval below the bottom of the deepest impacted zone.

Table 5-2
Well Restoration Specifications
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

Monitoring Well ID	Type	Total Depth (ft bgs)	Screened Interval (ft bgs)
MW-C5D	Deep	54	42 - 52
MW-C5S	Shallow	18	6 - 16
MW-C6D	Deep	50	38 - 48
MW-C7D	Deep	50	38 - 48
MW-C7S	Shallow	17.5	6 - 15.5
MW-C8D	Deep	55	43 - 52.5
MW-5	Shallow	15	5-15
MW-6	Shallow	15	5-15
MW-7	Shallow	15	5-15

ft bgs - feet below ground surface

Table 5-3
Sample Bottle, Volume, Preservation, and Holding Time Summary
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

MATRIX/ANALYSIS	Sample Prep Method [1]	Analytical Method	Sample Bottles (2)			Minimum Vol Rqd	Preservation (3)	Holding Time (3, 4)	
			Mat'l	Size	Qty			Extraction	Analysis
Groundwater Samples									
Groundwater/VOCs	8260	624 / 8260C	GTLC	40 mL vials	3	40 mL	HCL	14 days	-
Groundwater/SVOCs	3510 or 3520	625	GTLC	1 Liter	2	1 Liter	None	7 days	40 days
Groundwater/TAL Metals	200.7	200.7 or 200.8	P	500 mL	1	500 mL	HNO3	6 months	-
Groundwater/Mercury	7470	7470A/245.1	P	200 mL	1	200 mL	HNO3	28 days	-
Groundwater/Pesticides	608	8081	GTLC	1 Liter	2	1 Liter	None	7 days	40 days
Groundwater/PCBs	608	8082	GTLC	1 Liter	2	1 Liter	None	7 days	40 days
Soil Samples									
Soil/VOCs	8260	8260C	ENC/TC	5 grams	3	15 grams	None	48 hours	14 days
Soil/SVOCs	3535	8270D	GTLC	4 oz	1	100 grams	None	14 days	40 days
Soil/TAL Metals (no Hg)	6010	6010C or 6020A	G	4 oz	1	25 grams	HNO3	6 months	-
Soil/Mercury	7471	7471B	G	4 oz	1	25 grams	HNO3	28 days	-
Soil/Pesticides	3451	8081	GTLC	4 oz	1	100 grams	None	14 days	40 days
Soil/PCBs	3451	8082A	GTLC	4 oz	1	100 grams	None	14 days	40 days
NAPL Sample									
Fingerprint Analysis			G	sv	3	15 grams	None	48 hours	14 days

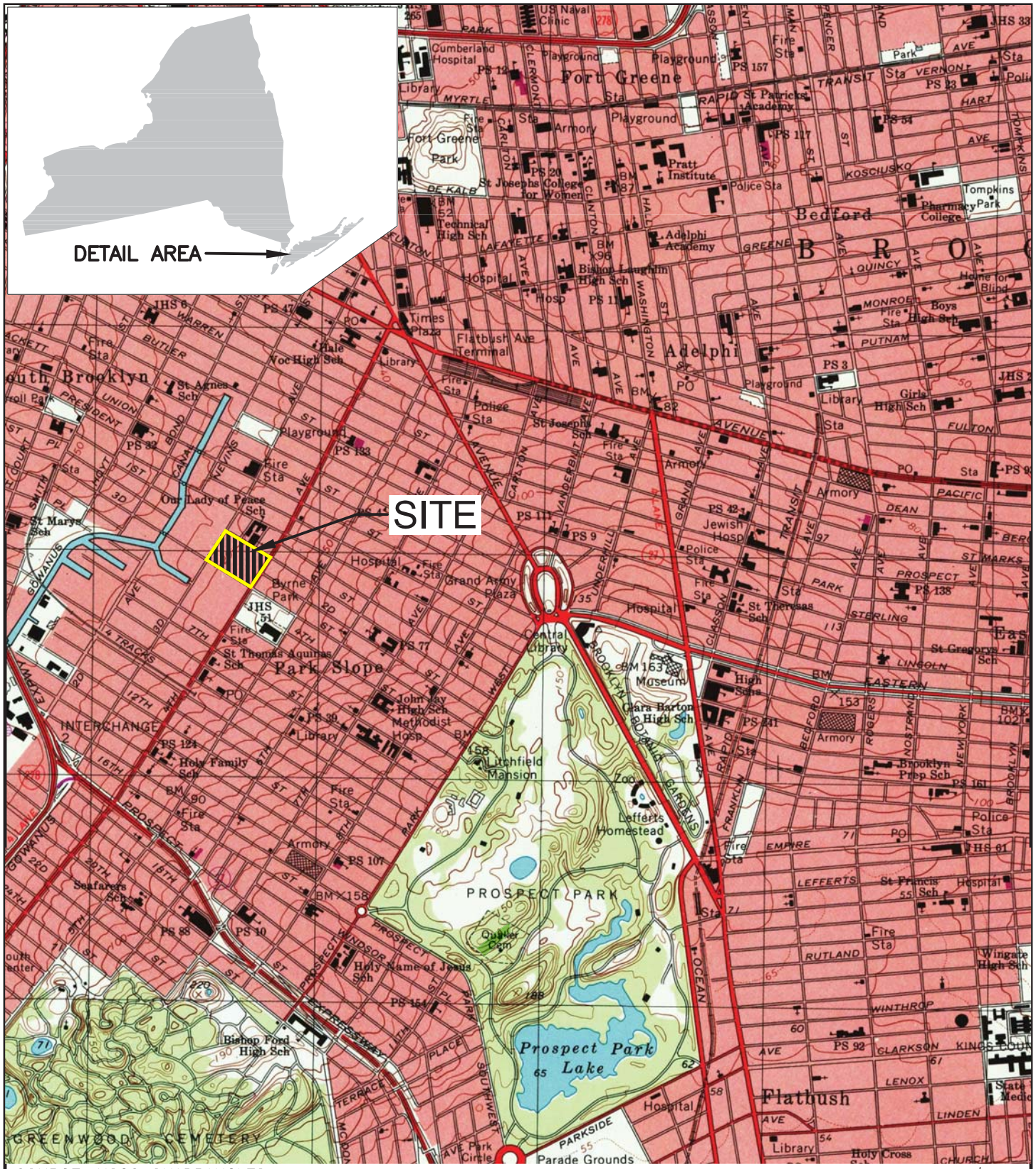
(1) Laboratory may propose alternate extraction/preparation methods, subject to approval.
(2) Bottles as planned by Hampton-Clarke Veritech.
ENC/TC = EnCore or Terra Core
G = Glass
GTLC = Glass with Teflon-lined cap
P = Plastic
(3) All samples for chemical analysis should be held at 4 degrees C in addition to any chemical preservation required.
(4) Extraction holding time is calculated from day of collection and the analysis holding time is from the day of extraction.
(5) Preliminary data to be reported within 14 days of sample receipt.

Table 5-4
Field Sample and QA/QC Sample Off-Site Laboratory Quantity Summary
Remedial Investigation Work Plan
Third Avenue Yard Service Center, Brooklyn, New York

MATRIX/ANALYSIS	Analytical Method	Laboratory	Field Sample Quantity (4)	Matrix Spike (MS) or LCS	MS Duplicate (MSD) or Matrix Duplicate	Field Duplicate	Equipment Blank	Trip Blank (5)	Total Billable Analyses
Water Samples									
Groundwater/VOCs	624 / 8260C	Hampton-Clarke Veritech	57	1/20	1/20	1/20	NA	2/week	72
Groundwater/SVOCs	625	Hampton-Clarke Veritech	57	1/20	1/20	1/20	NA	0	66
Groundwater/TAL Metals	200.7 or 200.8	Hampton-Clarke Veritech	57	1/20	1/20	1/20	NA	0	66
Groundwater/Mercury	7470A/245.1	Hampton-Clarke Veritech	57	1/20	1/20	1/20	NA	0	66
Groundwater/Pesticides	8081	Hampton-Clarke Veritech	57	1/20	1/20	1/20	NA	0	66
Groundwater/PCBs	8082	Hampton-Clarke Veritech	57	1/20	1/20	1/20	NA	0	66
Soil Samples									
Soil/VOCs	8260C	Hampton-Clarke Veritech	83	1/20	1/20	1/20	NA	2/week	102
Soil/SVOCs	8270D	Hampton-Clarke Veritech	329	1/20	1/20	1/20	NA	0	380
Soil/TAL Metals	6010C or 6020A	Hampton-Clarke Veritech	329	1/20	1/20	1/20	NA	0	380
Soil/Mercury	7471B	Hampton-Clarke Veritech	329	1/20	1/20	1/20	NA	0	380
Soil/Pesticides	8081	Hampton-Clarke Veritech	83	1/20	1/20	1/20	NA	0	98
Soil/PCBs	8082A	Hampton-Clarke Veritech	323	1/20	1/20	1/20	NA	0	374
NAPL Sample									
Fingerprint Analysis		Hampton-Clarke Veritech	TBD	0	0	0	0	0	TBD

1 Reporting limits for soils, when adjusted for dry weight, will be higher. Detections above the MDL but less than reporting limits will be reported and flagged estimated (J).
2 MS, MSD and field duplicate samples will be collected at a frequency of one sample for every 20 field sample.
3 Equipment blanks will be collected once a week.
4 The actual quantity of soil samples will be determined by the number of borings with impacted soils.
5 One trip blanks will be included in every cooler with VOA samples

Figures



SOURCE: USGS QUADRANGLES: BROOKLYN, 1995

SCALE 1:24000

1 0 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

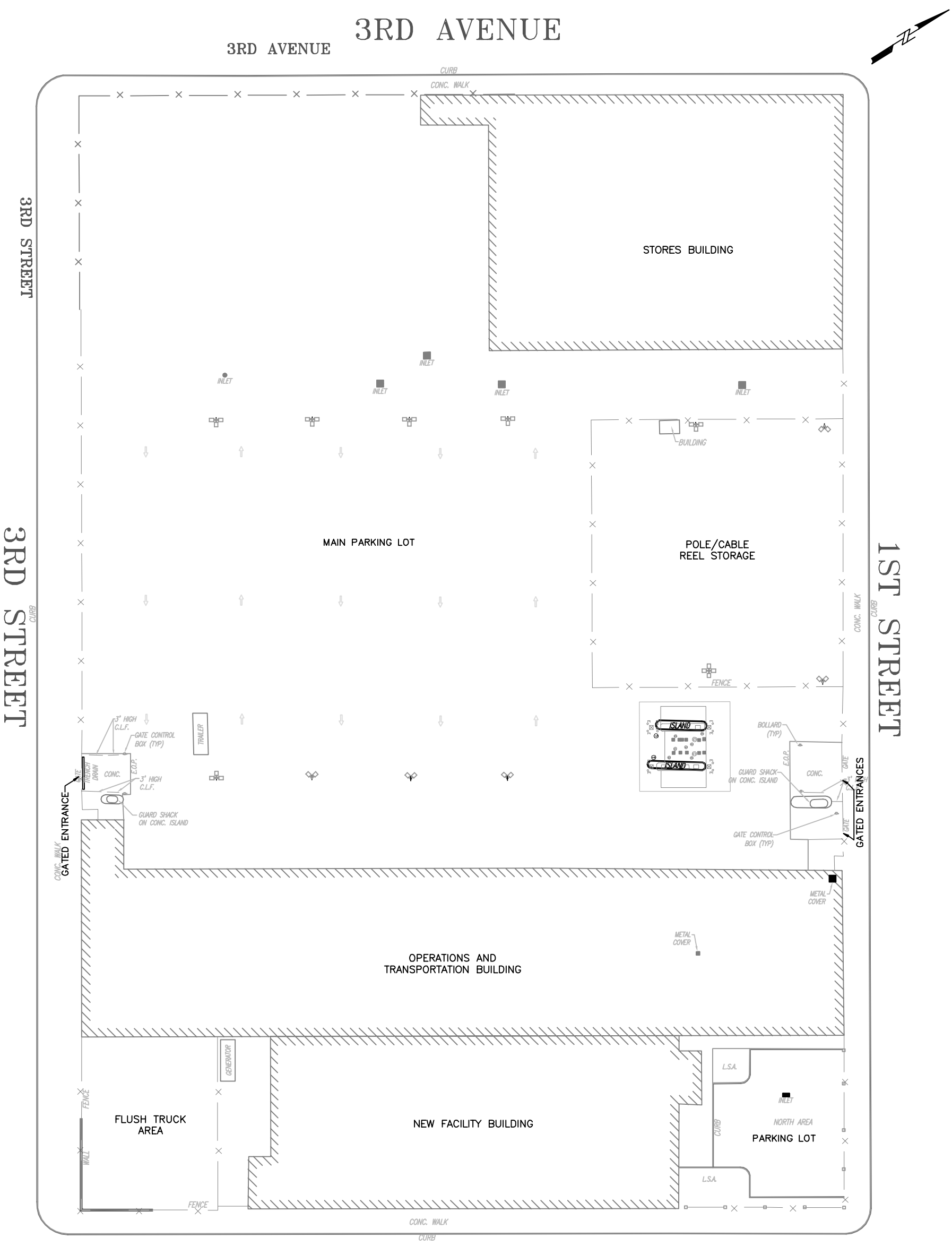
N

AECOM

CON EDISON 3RD AVE. YARD 222 1ST ST. BROOKLYN, NY 60317048-250	**SITE LOCATION MAP**
DATE: 10/03/14 | DRWN: RCW	**FIGURE 1-1**

File: J:\Rem_Eng\Project Files\Con Edison\3rdAve\2014\CADD\60242359-050-SL-01.dwg Layout: Site Location Map User: warrenr Plotted: Oct 08, 2014 - 1:32pm Xref's:

File: D:\Work\3rd Ave Yard2\CADD\BCP_Figures_20170426.dwg Layout: PropertyLayout User: FosterC2 Plotted: Apr 27, 2017 - 1:28pm Xref's:



LEGEND

⊸	UTILITY POLE		EXISTING BUILDING
•	BOLLARD	×	EXISTING FENCE
▭	AREA LIGHT		
C.L.F.	CHAIN LINK FENCE		
E.O.P.	EDGE OF PAVEMENT		
L.S.A.	LANDSCAPED AREA		

AECOM

DRAFT

CON EDISON 3RD AVE. YARD 222 1ST ST. BROOKLYN, NY 60317048-250			**PROPERTY LAYOUT**
DATE: 02/15/2017	DRWN: RCW		**FIGURE 2-1**

File: \\uschl1fp001\data\Projects\Jobs\Rem_Eng\Project Files\Con Edison\3rdAve\2014\CADD\60242359-050-C-02_11-10-15.dwg Layout: Cross Section Locs User: BRINKJ1 Plotted: Dec 04, 2015 - 10:29am Xref's

3RD AVENUE

3RD AVENUE

3RD STREET

1ST STREET

4TH AVENUE

A

A'

B

B'

CURB

CONC. WALK

MW-C11D MW-C11S

MW-C1S MW-C1D

MW-6

MW-2

MW-C2D

TW-1

MW-1R

MW-5

TW-2

MW-C3D

MW-C12S MW-C12D

MW-7

S-14/TW-3

MW-3

MW-8

MW-4D

SB-1

SB-3

MW-C9D

MW-4

STORES BUILDING

MW-C5S MW-C5D

MW-C4S MW-C4D

INLET

BUILDING

D10

D11

S-42/MW-10

MW-C6D

MW-C7D MW-C7S

MW-20D MW-20S

D9

D8

D15

MW-18S

MW-22S SBS-10 SBS-5 SBS-4 SB G-1 SBS-9 SBS-14 SB D-4 MW-19S MW-21S SBS-18 SBS-13

SB D-6 SB D-6A SB D-1 SB D-1A SBS-6 SBS-1 SBS-16 SBS-11 SBS-2 MW-24S SBS-17 MW-12S SB G-2 SB D-5 SBS-8 SBS-3 SBS-12 SBS-7 SB D-2 SB D-3

MW-23S MW-11S MW-14S MW-13S

SOUTH UST

MW-C10D MW-C10S

D13

D7

POLE/CABLE REEL STORAGE

MW-C8D MW-9N

FENCE

MW-1N

MW-C14D MW-C14S

MW-C13S MW-C13D

3" HIGH C.L.F.

GATE CONTROL BOX (TYP)

SAFETY BENCH DRAIN

CONC.

E.O.P.

GUARD SHACK ON CONC. ISLAND

TRAILER

D14

D12

MW-9N MW-10N MW-3N

ISLAND

BOLLARD (TYP)

MW-4N MW-5N MW-8N

GATE

MW-C15S MW-C15D

METAL COVER

MW-C16S MW-C16D

OPERATIONS AND TRANSPORTATION BUILDING

FLUSH TRUCK AREA

GENERATOR

MW-C17D MW-C17S

NEW FACILITY BUILDING

L.S.A.

NORTH AREA

RW-2-EAST RW-3-EAST MW-1-EAST MW-5-EAST RW-1-EAST MW-4-EAST MW-9-EAST MW-8-EAST MW-7-EAST MW-6-EAST

30 0 60

GRAPHIC SCALE IN FEET

LEGEND

- UTILITY POLE
- BOLLARD
- AREA LIGHT
- C.L.F. CHAIN LINK FENCE
- E.O.P. EDGE OF PAVEMENT
- L.S.A. LANDSCAPED AREA
- EXISTING BUILDING
- EXISTING FENCE
- HISTORIC STRUCTURE
- INVESTIGATION MONITORING WELL (AECOM, 2013 and 2015)
- INVESTIGATION SOIL BORING (AECOM, 2013)
- PDI SOIL BORINGS (AECOM, 2012)
- INVESTIGATION SOIL BORING (FIRST ENVIRONMENT, 2010/2011)
- PREVIOUS INVESTIGATION MONITORING WELL
- PREVIOUS INVESTIGATION SOIL BORING

AECOM

DRAFT

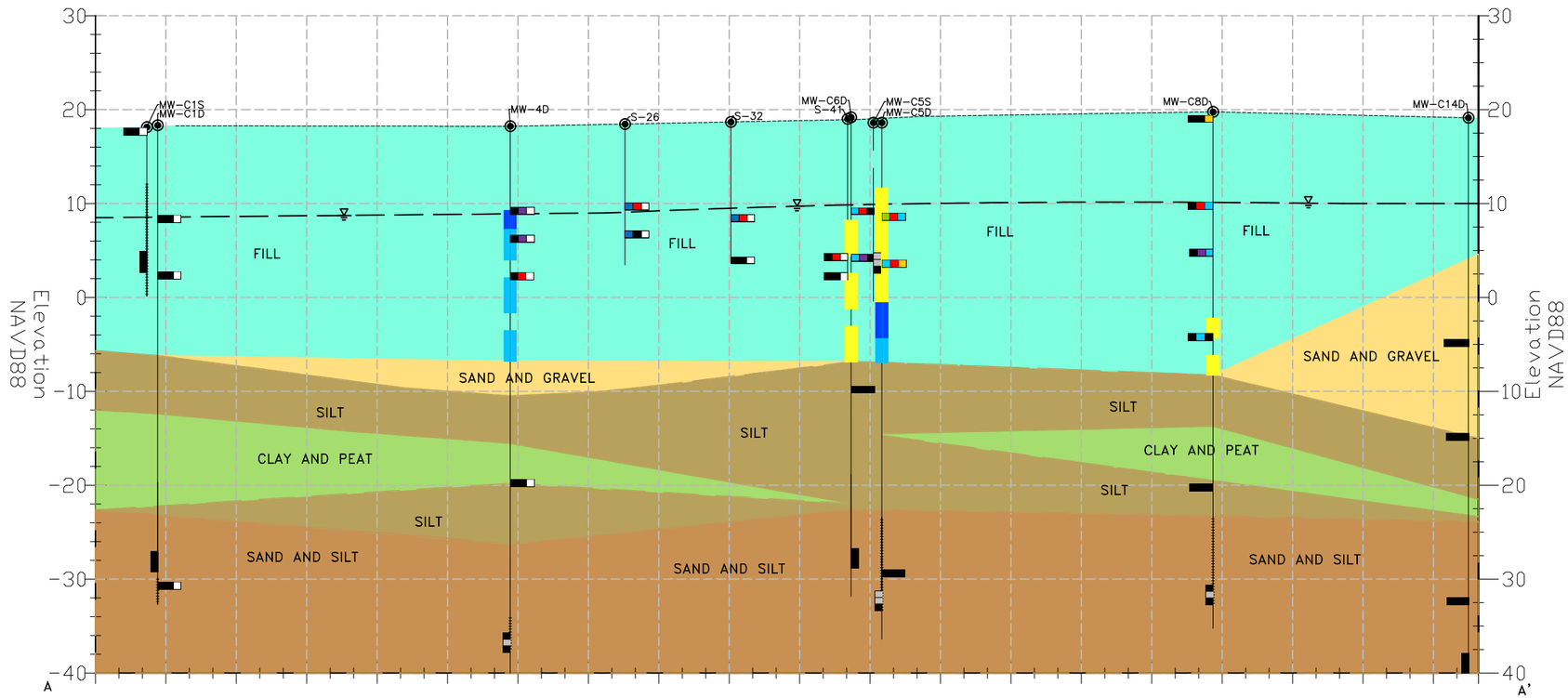
CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250

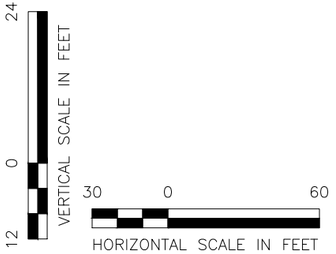
CROSS SECTION LOCATIONS

DATE: 10/10/15 | DRWN: RCW | **FIGURE 3-1**

File: \\uschl1fp001\data\Projects\Jobs\Rem_Eng\Project Files\Con Edison\3rdAve\2014\CADD\ContEd 3rd Ave Cross-Sections (V3).dwg Layout: Cross Section A_revised User: BRINKJ1 Plotted: Nov 30, 2015 - 12:39pm

A





LEGEND

- Petroleum Impacts Saturation & Sheens
- Petroleum Impacts Staining & Odors
- MGP Staining, Odor
- WATER TABLE
- EXISTING GROUND SURFACE
- GROUNDWATER ELEVATION
- OPEN WELL CASING
- MONITORING WELL CASING

BOX LEGEND

BTEX
PAHs
PCBs

GROUNDWATER RESULTS FOR BTEX, PAHS, AND PCBS ARE DEPICTED HERE AS A COLUMN

BLACK HIGHLIGHT INDICATES COMPOUNDS WERE NOT DETECTED OR WERE DETECTED BELOW NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE

GREY HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING THE NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE

SOIL RESULTS FOR VOCS, PAHS, AND PCBS ARE DEPICTED HERE AS A ROW

VOCs | PAHs | PCBs

NO HIGHLIGHT INDICATES COMPOUNDS WERE NOT ANALYZED

BLACK HIGHLIGHT INDICATES THAT COMPOUNDS WERE NOT DETECTED OR WERE DETECTED BELOW UNRESTRICTED SCOs

BLUE HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING UNRESTRICTED SCOs

GREEN HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING RESTRICTED RESIDENTIAL SCOs

ORANGE HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING COMMERCIAL SCOs

PURPLE HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING INDUSTRIAL SCOs

RED HIGHLIGHT INDICATES TOTAL PAHS EXCEED NYSDEC CP-51 ALTERNATIVE CRITERION OF 500 MG/KG

NOTE: SCOs ARE SOIL CLEANUP OBJECTIVES AS DEFINED IN NYSDEC PART 375-6 FOR UNRESTRICTED AND RESTRICTED USES

AECOM

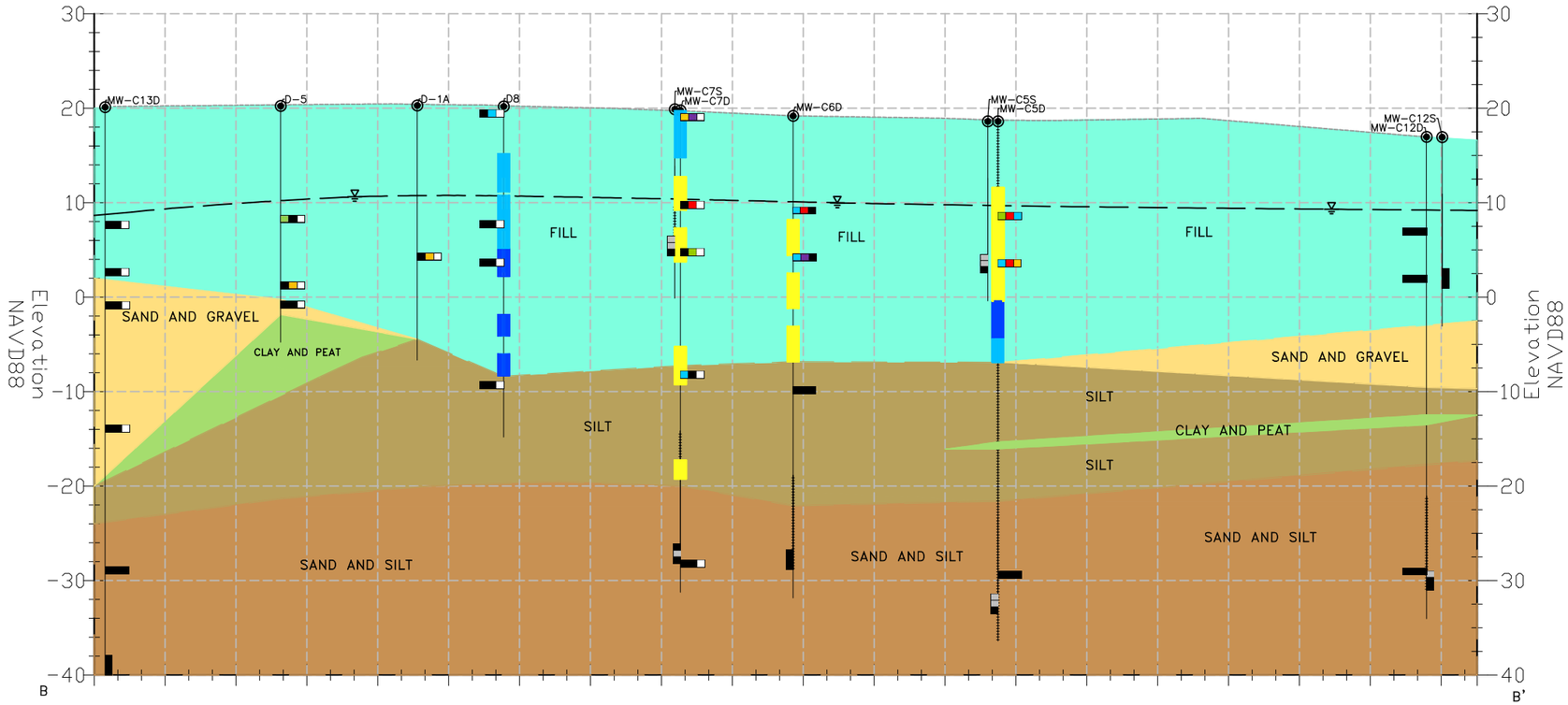
CON EDISON
3rd Ave. Yard, 222 1st St. BROOKLYN, NY
60242359-050

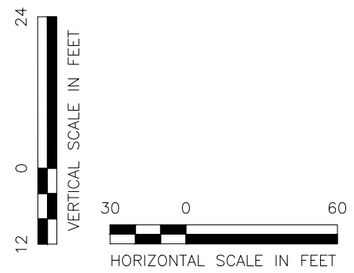
Cross Section A

DATE: 10/10/15 | DRWN: CBL | **FIGURE 3-2**

File: \\uschl1fp001\data\Projects\Jobs\Rem_Eng\Project Files\Con Edison\3rdAve\2014\CADD\ConEd 3rd Ave Cross-Sections (V3).dwg Layout: Cross Section B_revised User: BRINKJ1 Plotted: Nov 30, 2015 - 12:45pm

B





LEGEND

- Petroleum Impacts Saturation & Sheens
- Petroleum Impacts Staining & Odors
- MGP Staining, Odor
- WATER TABLE
- EXISTING GROUND SURFACE
- GROUNDWATER ELEVATION
- OPEN WELL CASING
- MONITORING WELL CASING

BOX LEGEND

BTEX
PAHs
PCBs

GROUNDWATER RESULTS FOR BTEX, PAHS, AND PCBS ARE DEPICTED HERE AS A COLUMN

BLACK HIGHLIGHT INDICATES COMPOUNDS WERE NOT DETECTED OR WERE DETECTED BELOW NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE

GREY HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING THE NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE

SOIL RESULTS FOR VOCS, PAHS, AND PCBS ARE DEPICTED HERE AS A ROW

VOCs | PAHs | PCBs

NO HIGHLIGHT INDICATES COMPOUNDS WERE NOT ANALYZED

BLACK HIGHLIGHT INDICATES THAT COMPOUNDS WERE NOT DETECTED OR WERE DETECTED BELOW UNRESTRICTED SCOs

BLUE HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING UNRESTRICTED SCOs

GREEN HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING RESTRICTED RESIDENTIAL SCOs

ORANGE HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING COMMERCIAL SCOs

PURPLE HIGHLIGHT INDICATES COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING INDUSTRIAL SCOs

RED HIGHLIGHT INDICATES TOTAL PAHS EXCEED NYSDEC CP-51 ALTERNATIVE CRITERION OF 500 MG/KG

NOTE: SCOs ARE SOIL CLEANUP OBJECTIVES AS DEFINED IN NYSDEC PART 375-6 FOR UNRESTRICTED AND RESTRICTED USES

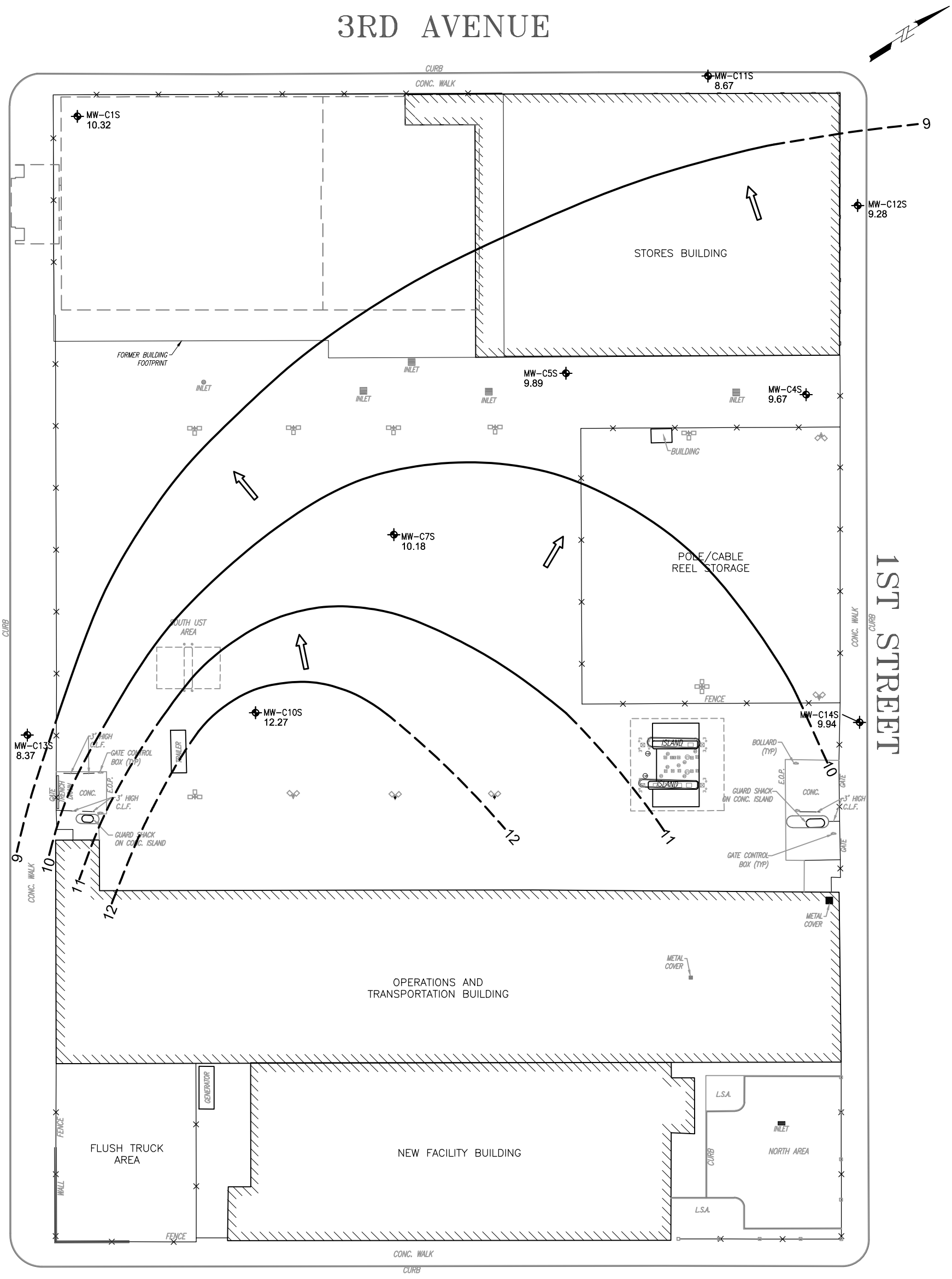
AECOM

CON EDISON
3rd Ave. Yard, 222 1st St. BROOKLYN, NY
60242359-050

Cross Section B

DATE: 10/10/15 | DRWN: CBL | **FIGURE 3-3**

File: \\uschl1fp001\data\Projects\Jobs\Rem_Eng\Project Files\Con Edison\3rdAve\2014\CADD\60242359-050-GW-01.dwg Layout: GWS User: BRINKJ1 Plotted: Dec 04, 2015 - 11:07am Xref's:



30 0 60

GRAPHIC SCALE IN FEET

LEGEND

- UTILITY POLE
- BOLLARD
- AREA LIGHT
- C.L.F. CHAIN LINK FENCE
- E.O.P. EDGE OF PAVEMENT
- L.S.A. LANDSCAPED AREA
- MW-C13S 8.37 — SHALLOW GROUNDWATER MONITORING WELL GROUNDWATER ELEVATION
- ESTIMATED DIRECTION OF GROUNDWATER FLOW
- 12 — ESTIMATED GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

NOTES

1. GROUNDWATER ELEVATIONS ARE SHOWN FOR WELLS SCREENED BETWEEN APPROXIMATELY 10 TO 20 FEET BELOW GROUND SURFACE.
2. GROUNDWATER ELEVATIONS WERE MEASURED ON APRIL 1, 2014.

AECOM

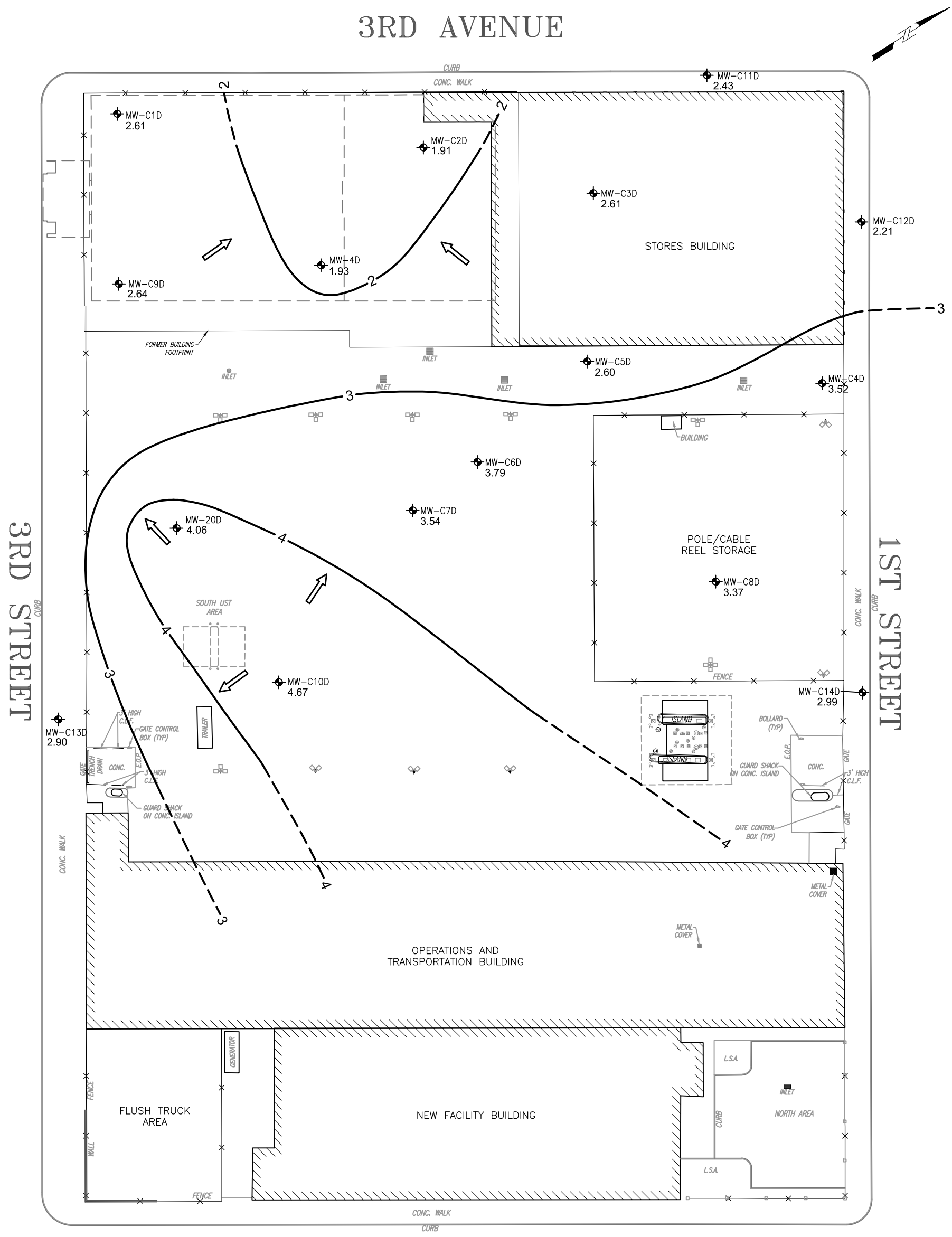
DRAFT

CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250

SHALLOW GROUNDWATER ELEVATION CONTOUR MAP 2014

DATE: 10/10/15 | DRWN: RCW | **FIGURE 3-4**

File: \\uschl1fp001\data\Projects\Jobs\Rem_Eng\Project Files\Con Edison\3rdAve\2014\CADD\60242359-050-GW-01.dwg Layout: GWD User: BRINKJ1 Plotted: Dec 04, 2015 - 11:09am Xref's:



30 0 60

GRAPHIC SCALE IN FEET

LEGEND

- UTILITY POLE
- BOLLARD
- AREA LIGHT
- C.L.F. CHAIN LINK FENCE
- E.O.P. EDGE OF PAVEMENT
- L.S.A. LANDSCAPED AREA
- MW-C10D 4.67 — DEEP GROUNDWATER MONITORING WELL; GROUNDWATER ELEVATION
- ESTIMATED DIRECTION OF GROUNDWATER FLOW
- 4 — ESTIMATED GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

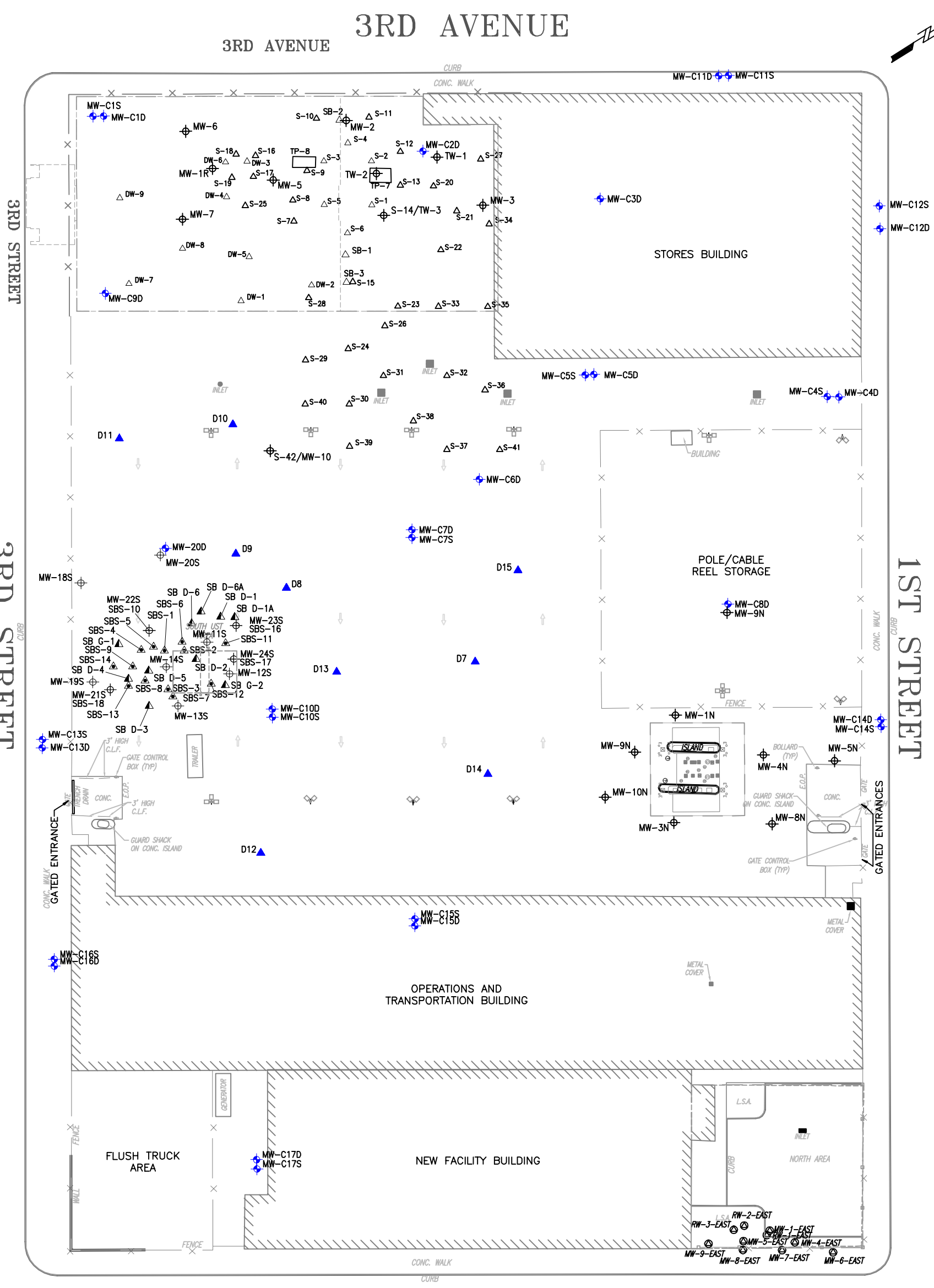
NOTES

1. GROUNDWATER ELEVATIONS ARE SHOWN FOR WELLS SCREENED BETWEEN APPROXIMATELY 35 TO 55 FEET BELOW GROUND SURFACE.
2. GROUNDWATER ELEVATIONS WERE MEASURED ON APRIL 1, 2014.

AECOM

DRAFT

CON EDISON 3RD AVE. YARD 222 1ST ST. BROOKLYN, NY 60317048-250		**DEEP GROUNDWATER ELEVATION CONTOUR MAP 2014**
DATE: 10/10/15	DRWN: RCW	**FIGURE 3-5**



LEGEND

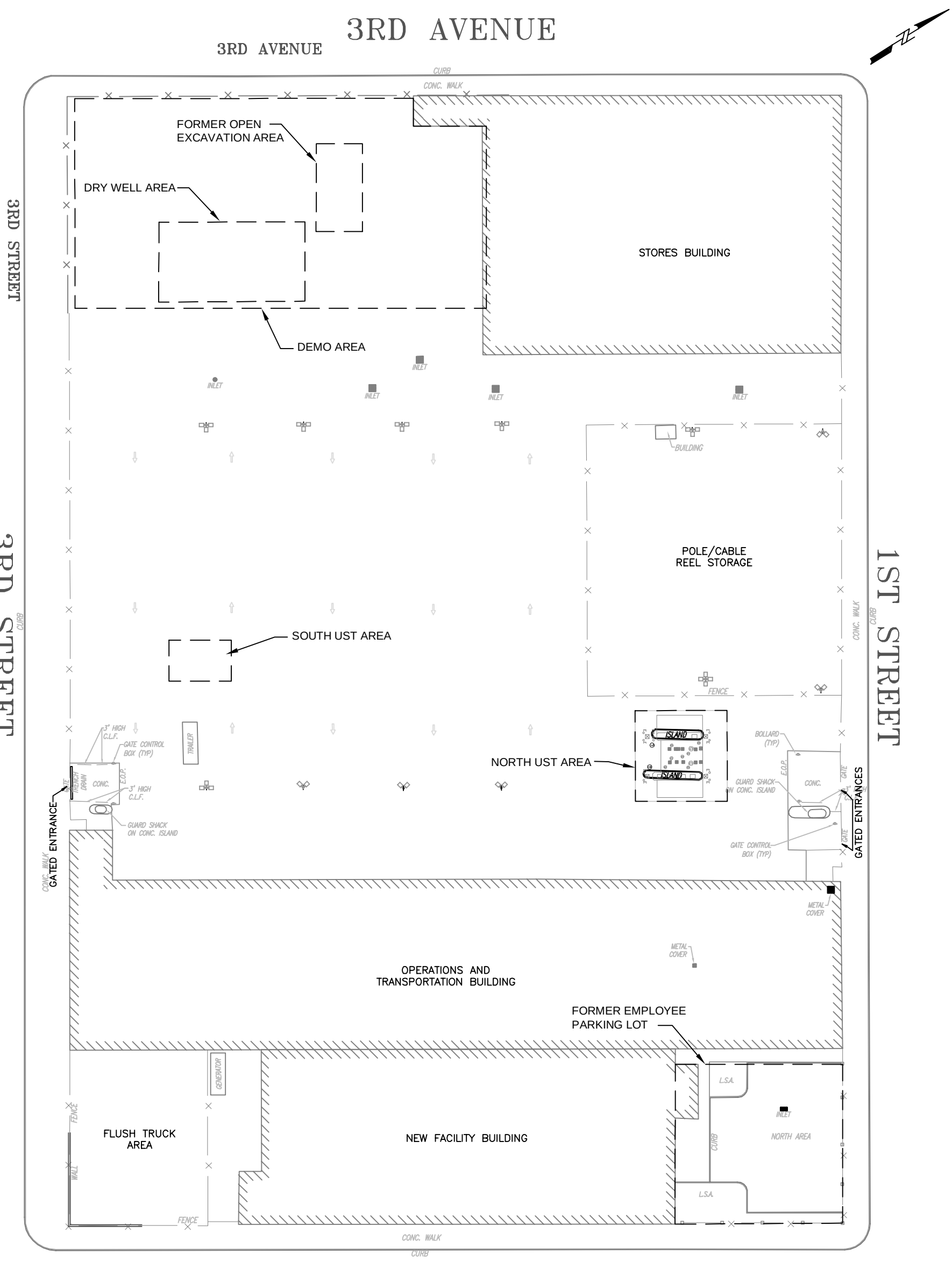
- UTILITY POLE
- BOLLARD
- AREA LIGHT
- C.L.F. CHAIN LINK FENCE
- E.O.P. EDGE OF PAVEMENT
- L.S.A. LANDSCAPED AREA
- EXISTING BUILDING
- EXISTING FENCE
- HISTORIC STRUCTURE
- INVESTIGATION MONITORING WELL (AECOM, 2013 AND 2015)
- INVESTIGATION SOIL BORING (AECOM, 2013)
- PDI SOIL BORINGS (AECOM, 2012)
- INVESTIGATION SOIL BORING (FIRST ENVIRONMENT, 2010/2011)
- PREVIOUS INVESTIGATION MONITORING WELL
- PREVIOUS INVESTIGATION SOIL BORING

AECOM

CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250

SI AND PREVIOUS INVESTIGATION LOCATION

DATE: 10/03/2016 | DRWN: RCW | **FIGURE 4-1**



LEGEND

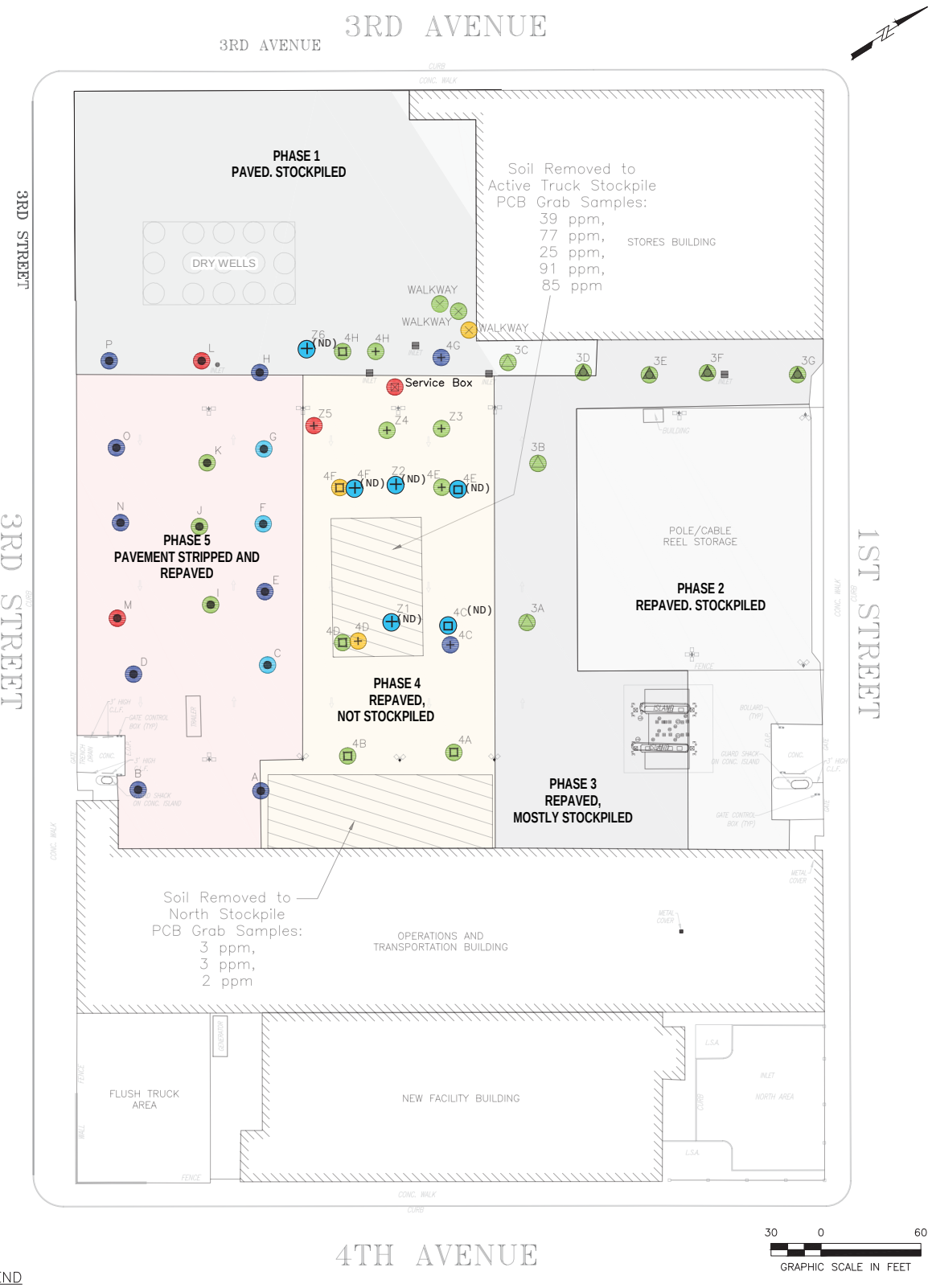
⊸	UTILITY POLE		EXISTING BUILDING
•	BOLLARD	×	EXISTING FENCE
▭	AREA LIGHT		HISTORIC STRUCTURE
C.L.F.	CHAIN LINK FENCE		
E.O.P.	EDGE OF PAVEMENT		
L.S.A.	LANDSCAPED AREA		

AECOM

DRAFT

CON EDISON 3RD AVE. YARD 222 1ST ST. BROOKLYN, NY 60317048-250			**FORMER FUNCTIONAL AREAS**
DATE: 02/15/2017	DRWN: RCW		**FIGURE 4-2**

File: J:\Project\ConEd\Cadd\Brooklyn\3rdAveYard\Drawings\60242359-050-C-02_03-08-16.dwg Layout: PCB-resultsRepav_Fig2-3 User: karchj1 Plotted: Mar 10, 2016 - 11:10am Xref's:



LEGEND

- UTILITY POLE
- BOLLARD
- AREA LIGHT
- C.L.F. CHAIN LINK FENCE
- E.O.P. EDGE OF PAVEMENT
- L.S.A. LANDSCAPED AREA
- EXISTING BUILDING
- EXISTING FENCE

SAMPLE LOCATIONS

- △ 04/2015, COMPOSITE 1
- ▲ 04/2015, COMPOSITE 2
- ◘ 04/2015, GRAB SAMPLES
- ● 06/06/2015 SAMPLES
- \+ 06/19/2015 SAMPLES
- ⊠ SERVICE BOX
- × WALKWAY

TOTAL PCB CONCENTRATIONS

- TOTAL PCBs NOT DETECTED OR DETECTED AT A CONCENTRATION BELOW THE UNRESTRICTED USE SCO, 0.1
- TOTAL PCBs DETECTED AT A CONCENTRATION EXCEEDING THE UNRESTRICTED USE SCOs, 0.1 mg/Kg
- TOTAL PCBSs DETECTED AT A CONCENTRATION EXCEEDING THE RESTRICTED RESIDENTIAL AND COMMERCIAL USE SCOs, 1.0 mg/Kg
- TOTAL PCBs DETECTED AT A CONCENTRATION EXCEEDING THE PRESUMPTIVE REMEDY FOR SUBSURFACE PCBs, 10 mg/Kg
- TOTAL PCBs DETECTED AT A CONCENTRATION EXCEEDING THE RESTRICTED INDUSTRIAL USE SCOs, 25 mg/Kg

NOTES:

1. SCO – SOIL CLEANUP OBJECTIVES AS DEFINED BY NYSDEC PART 375-6 FOR UNRESTRICTED AND RESTRICTED USES.
2. PRESUMPTIVE REMEDY FOR SUBSURFACE PCBs AS DEFINED BY NYSDEC CP-51 SOIL CLEANUP GUIDANCE SITES NOT PART OF THE BROWNFIELD CLEANUP PROGRAM.
3. SAMPLES COLLECTED 0-10" BELOW ROAD SUBGRADE/ASPHALT.
4. ND=NOT DETECTED. DETECTION LIMIT EQUAL TO 1.0 mg/Kg
5. PAVEMENT RANGES IN DEPH FROM 8-16 INCHES IN ALL PHASES, EXCEPT PHASE 4 WHERE NO SOIL WAS REMOVED.

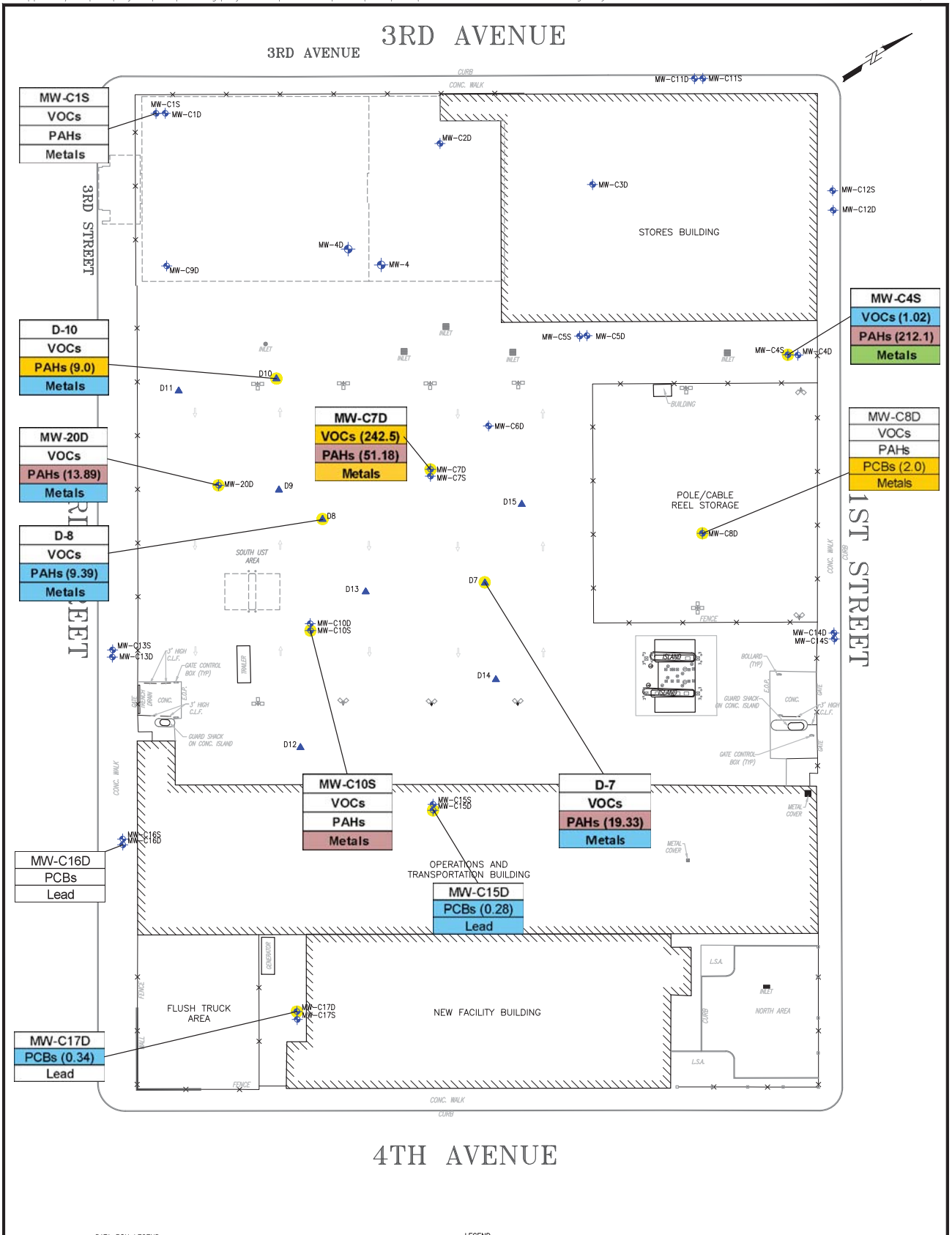
AECOM

DRAFT

CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250

SUBSURFACE SOIL PCB ANALYTICAL RESULTS COLLECTED DURING REPAVING

DATE: 03/10/16 | DRWN: RCW/jk | **FIGURE 4-3**



DATA BOX LEGEND

MW-C1S
VOCs
PAHs
PCBs

- SAMPLE ID
- NUMBER IN PARENTHESES REPRESENTS THE TOTAL VOC CONCENTRATION IN mg/Kg
- NUMBER IN PARENTHESES REPRESENTS THE TOTAL PAH CONCENTRATION IN mg/Kg
- NUMBER IN PARENTHESES REPRESENTS THE TOTAL PCB CONCENTRATION IN mg/Kg
- COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING THE UNRESTRICTED USE SCO
- COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING THE RESTRICTED RESDENTIAL USE SCO
- COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING THE COMMERCIAL USE SCO
- COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING THE INDUSTRIAL USE SCO
- TOTAL PAHS WERE DETECTED AT A CONCENTRATION EXCEEDING THE NYSDEC CP-51 ALTERNATIVE CRITERION OF 500 MG\KG

COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING THE UNRESTRICTED SCO

NOTES:
1. SCO-SOIL CLEANUP OBJECTIVES AS DEFINED BY NYSDEC PART 375-6 FOR UNRESTRICTED AND RESTRICTED USES
2. LOCATIONS WITHOUT A DATA BOX DO NOT HAVE SHALLOW SUBSURFACE SOIL ANALYTICAL RESULTS

LEGEND

- UTILITY POLE
- BOLLARD
- AREA LIGHT
- C.L.F. CHAIN LINK FENCE
- E.O.P. EDGE OF PAVEMENT
- L.S.A. LANDSCAPED AREA
- EXISTING BUILDING
- EXISTING FENCE
- HISTORIC STRUCTURE
- INVESTIGATION MONITORING WELL (AECOM, 2013 and 2015)
- INVESTIGATION SOIL BORING (AECOM, 2013)

30 0 60
GRAPHIC SCALE IN FEET

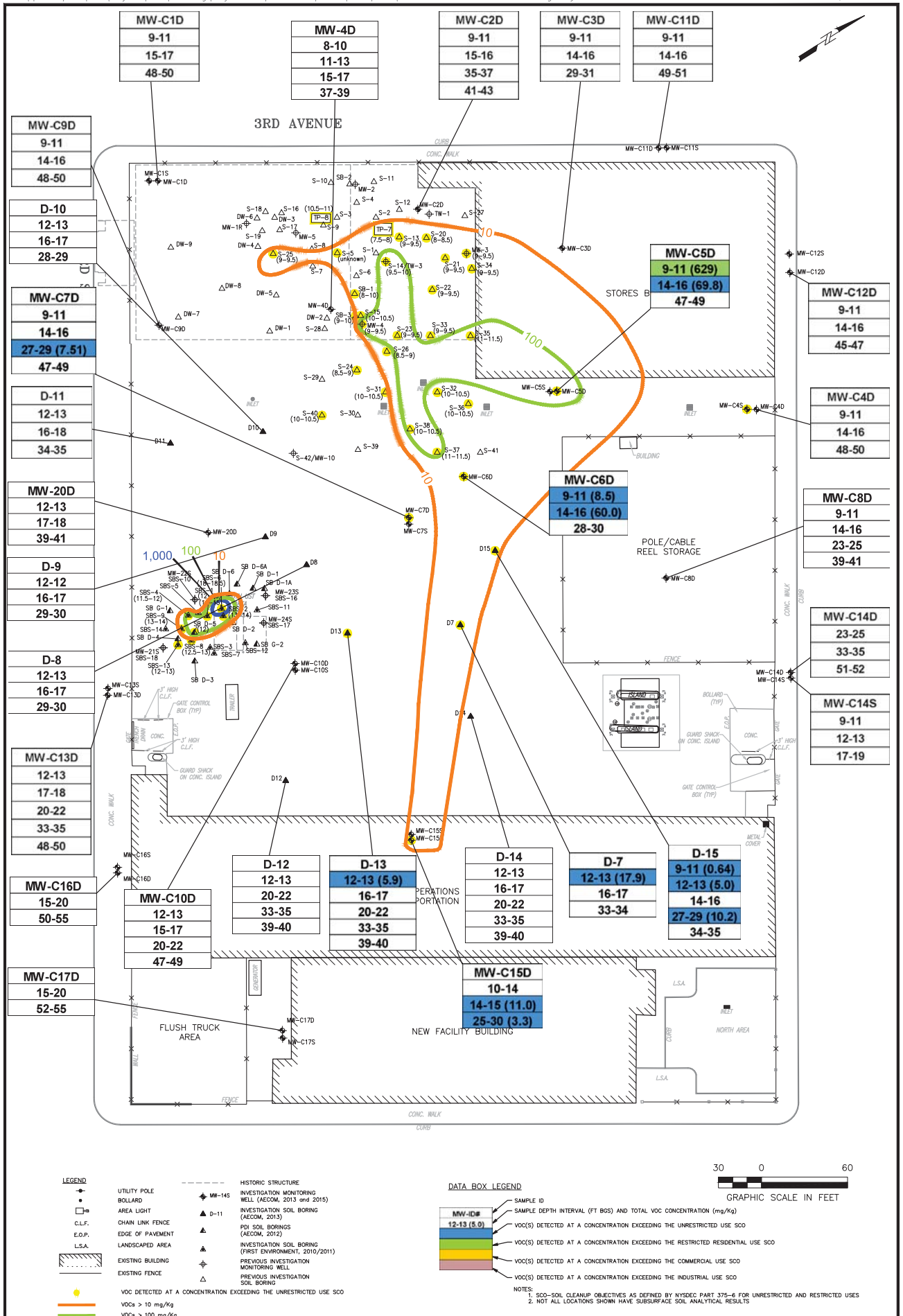
AECOM

DRAFT

CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250

SHALLOW SUBSURFACE SOIL ANALYTICAL RESULTS

DATE: 10/10/15 | DRWN: RCW | FIGURE 4-4



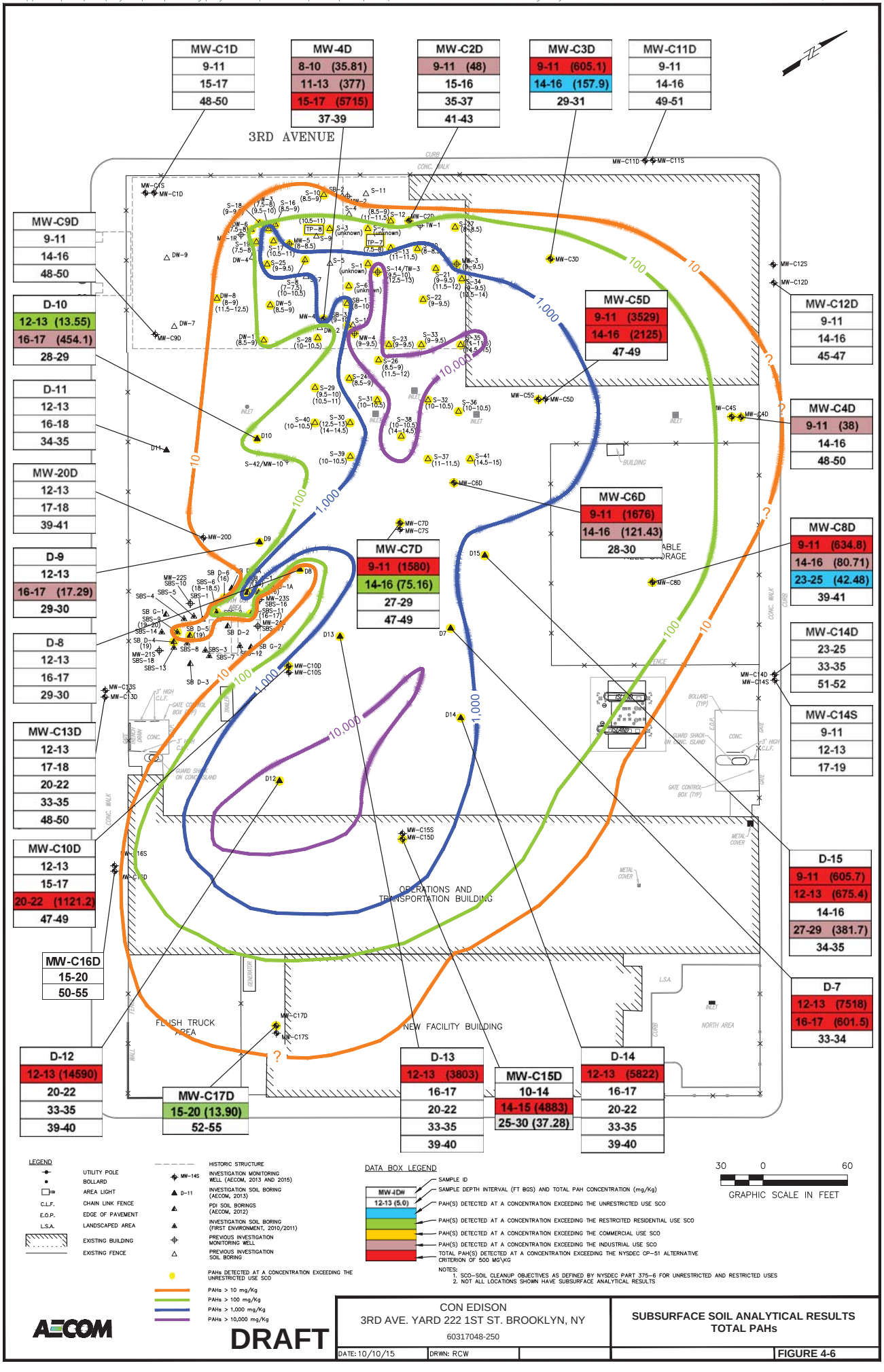
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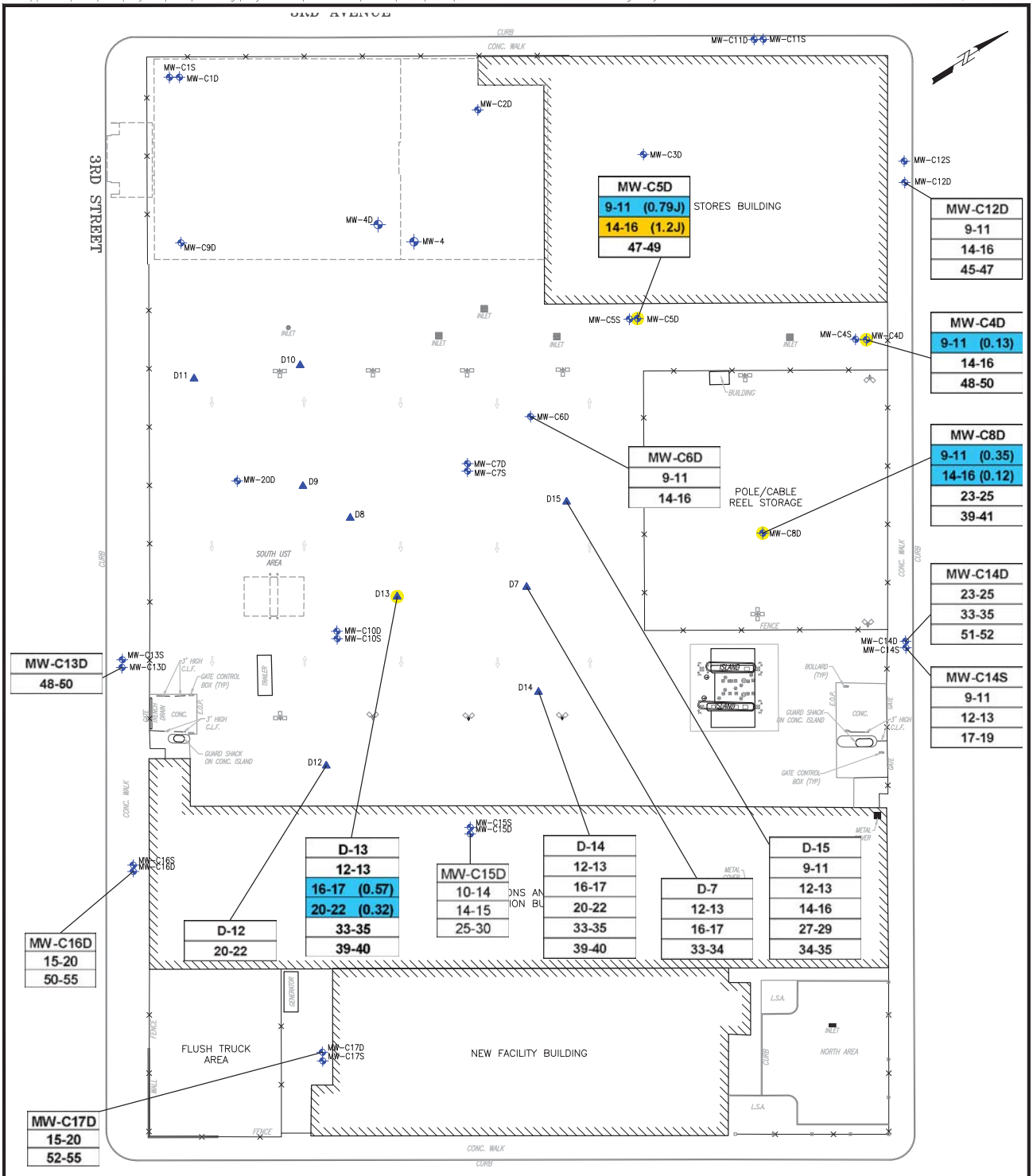
DRAFT

CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250

SUBSURFACE SOIL ANALYTICAL RESULTS TOTAL VOCs

DATE: 10/10/15 | DRWN: RCW | **FIGURE 4-5**


MW-C1D
9-11
15-17
48-50
MW-4D
8-10 (35.81)
11-13 (377)
15-17 (5715)
37-39
MW-C2D
9-11 (48)
15-16
35-37
41-43
MW-C3D
9-11 (605.1)
14-16 (157.9)
29-31
MW-C11D
9-11
14-16
49-51
3RD AVENUE
MW-C9D
9-11
14-16
48-50
D-10
12-13 (13.55)
16-17 (454.1)
28-29
D-11
12-13
16-18
34-35
MW-20D
12-13
17-18
39-41
D-9
12-13
16-17 (17.29)
29-30
D-8
12-13
16-17
29-30
MW-C13D
12-13
17-18
20-22
33-35
48-50
MW-C10D
12-13
15-17
20-22 (1121.2)
47-49
MW-C16D
15-20
50-55
D-12
12-13 (14590)
20-22
33-35
39-40
MW-C17D
15-20 (13.90)
52-55
D-13
12-13 (3803)
16-17
20-22
33-35
39-40
MW-C15D
10-14
14-15 (4883)
25-30 (37.28)
D-14
12-13 (5822)
16-17
20-22
33-35
39-40
MW-C5D
9-11 (3529)
14-16 (2125)
47-49
MW-C6D
9-11 (1676)
14-16 (121.43)
28-30
MW-C7D
9-11 (1580)
14-16 (75.16)
27-29
47-49
MW-C12D
9-11
14-16
45-47
MW-C4D
9-11 (38)
14-16
48-50
MW-C8D
9-11 (634.8)
14-16 (80.71)
23-25 (42.48)
39-41
MW-C14D
23-25
33-35
51-52
MW-C14S
9-11
12-13
17-19
D-15
9-11 (605.7)
12-13 (675.4)
14-16
27-29 (381.7)
34-35
D-7
12-13 (7518)
16-17 (601.5)
33-34
10
100
1,000
10,000
?
OPERATIONS AND TRANSPORTATION BUILDING
NEW FACILITY BUILDING
FLUSH TRUCK AREA
CONC. WALK
CURB
FENCE
BUILDING
INLET
LEGEND
UTILITY POLE
BOLLARD
AREA LIGHT
C.L.F. CHAIN LINK FENCE
E.O.P. EDGE OF PAVEMENT
L.S.A. LANDSCAPED AREA
EXISTING BUILDING
EXISTING FENCE
HISTORIC STRUCTURE
MW-14S INVESTIGATION MONITORING WELL (AECOM, 2013 AND 2015)
D-11 INVESTIGATION SOIL BORING (AECOM, 2013)
PDI SOIL BORINGS (AECOM, 2012)
INVESTIGATION SOIL BORING (FIRST ENVIRONMENT, 2010/2011)
PREVIOUS INVESTIGATION MONITORING WELL
PREVIOUS INVESTIGATION SOIL BORING
PAHs DETECTED AT A CONCENTRATION EXCEEDING THE UNRESTRICTED USE SCO
PAHs > 10 mg/Kg
PAHs > 100 mg/Kg
PAHs > 1,000 mg/Kg
PAHs > 10,000 mg/Kg
DATA BOX LEGEND
MW-4D#
12-13 (5.0)
SAMPLE ID
SAMPLE DEPTH INTERVAL (FT BGS) AND TOTAL PAH CONCENTRATION (mg/Kg)
PAH(S) DETECTED AT A CONCENTRATION EXCEEDING THE UNRESTRICTED USE SCO
PAH(S) DETECTED AT A CONCENTRATION EXCEEDING THE RESTRICTED RESIDENTIAL USE SCO
PAH(S) DETECTED AT A CONCENTRATION EXCEEDING THE COMMERCIAL USE SCO
PAH(S) DETECTED AT A CONCENTRATION EXCEEDING THE INDUSTRIAL USE SCO
TOTAL PAH(S) DETECTED AT A CONCENTRATION EXCEEDING THE NYSDEC CP-51 ALTERNATIVE CRITERION OF 500 MG\KG
NOTES:
1. SCO-SOIL CLEANUP OBJECTIVES AS DEFINED BY NYSDEC PART 375-6 FOR UNRESTRICTED AND RESTRICTED USES
2. NOT ALL LOCATIONS SHOWN HAVE SUBSURFACE ANALYTICAL RESULTS
30 0 60
GRAPHIC SCALE IN FEET
AECOM
DRAFT
CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250
SUBSURFACE SOIL ANALYTICAL RESULTS
TOTAL PAHs
DATE: 10/10/15
DRWN: RCW
FIGURE 4-6



30 0 60

GRAPHIC SCALE IN FEET

LEGEND

- UTILITY POLE
- BOLLARD
- AREA LIGHT
- C.L.F. CHAIN LINK FENCE
- E.O.P. EDGE OF PAVEMENT
- L.S.A. LANDSCAPED AREA
- EXISTING BUILDING
- EXISTING FENCE
- HISTORIC STRUCTURE
- INVESTIGATION MONITORING WELL (AECOM, 2013 AND 2015)
- INVESTIGATION SOIL BORING (AECOM, 2013)

DATA BOX LEGEND

MW-4D#
12-13 (5.0)

- SAMPLE ID
- SAMPLE DEPTH INTERVAL (FT BGS) AND TOTAL PCB CONCENTRATION (mg/Kg)
- TOTAL PCBS DETECTED AT A CONCENTRATION EXCEEDING THE UNRESTRICTED USE SCO
- TOTAL PCBS DETECTED AT A CONCENTRATION EXCEEDING THE RESTRICTED RESIDENTIAL USE SCO
- TOTAL PCBS DETECTED AT A CONCENTRATION EXCEEDING THE COMMERCIAL USE SCO
- TOTAL PCBS DETECTED AT A CONCENTRATION EXCEEDING THE INDUSTRIAL USE SCO
- TOTAL PAHs DETECTED AT A CONCENTRATIONS EXCEEDING THE NYSDEC PART 375-6 RESTRICTED INDUSTRIAL USE CLEANUP OBJECTIVE FOR TOTAL PCBs OF 25 mg/Kg
- COMPOUND DETECTED AT A CONCENTRATION EXCEEDING THE UNRESTRICTED USE CLEANUP OBJECTIVE

NOTES:
1. SCO-SOIL CLEANUP OBJECTIVES AS DEFINED BY NYSDEC PART 375-6 FOR UNRESTRICTED AND RESTRICTED USES
2. LOCATIONS WITHOUT A DATA BOX DO NOT HAVE SUBSURFACE SOIL ANALYTICAL PCB RESULTS

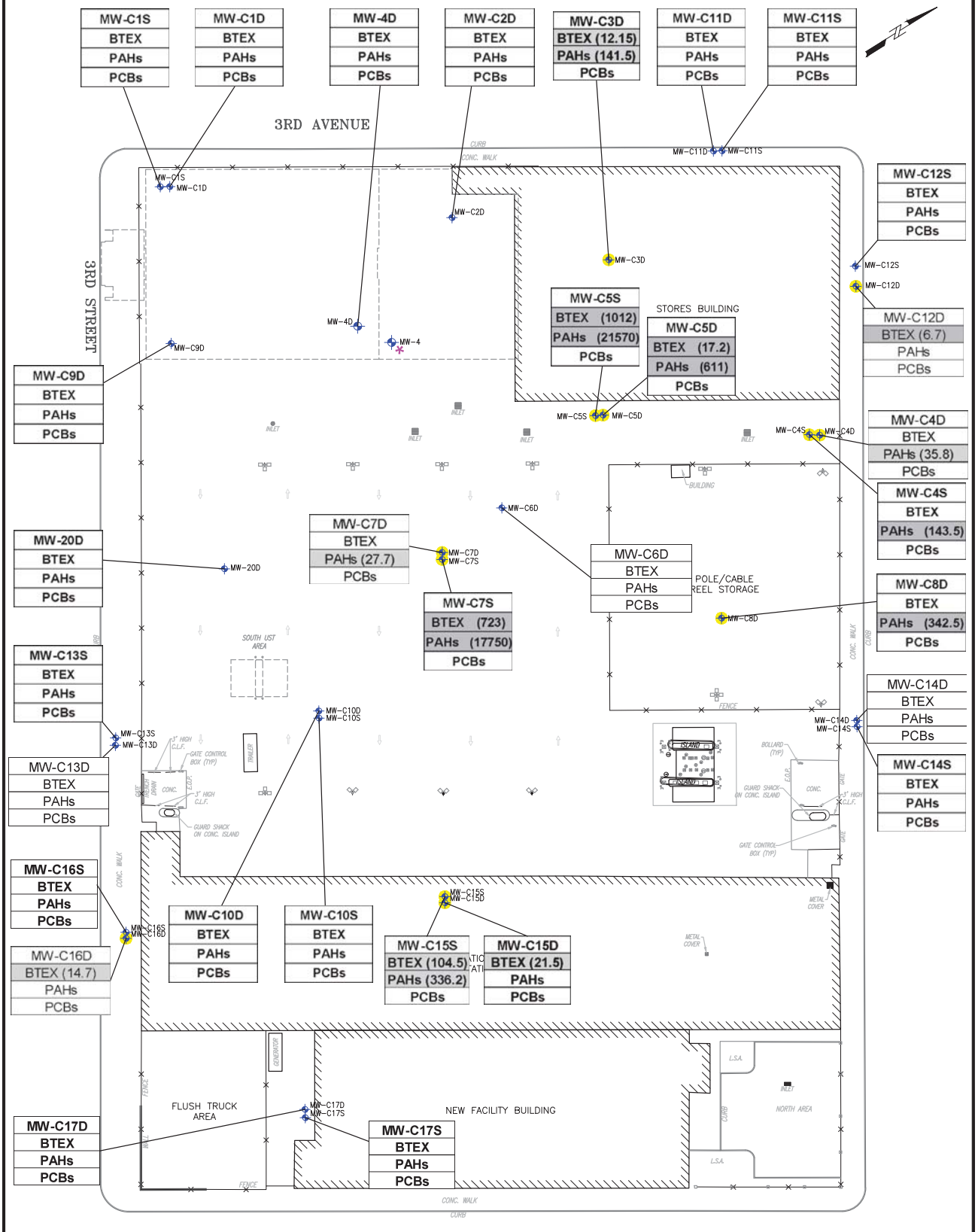
AECOM

DRAFT

CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250

SUBSURFACE SOIL ANALYTICAL RESULTS
PCBs

DATE: 10/10/15 | DRWN: RCW | FIGURE 4-7



LEGEND

- UTILITY POLE
- BOLLARD
- AREA LIGHT
- C.L.F. CHAIN LINK FENCE
- E.O.P. EDGE OF PAVEMENT
- L.S.A. LANDSCAPED AREA
- EXISTING BUILDING
- EXISTING FENCE
- HISTORIC STRUCTURE
- INVESTIGATION MONITORING WELL (AECOM, 2013 AND 2015)
- PRODUCT NOTED IN WELL

DATA BOX LEGEND

MW-C4S
BTEX (723)
PAHs (17750)
PCBs

- SAMPLE ID
- VALUE IN PARENTHESES IS THE TOTAL DETECTED CONCENTRATION IN UG/L
- COMPOUND DETECTED AT A CONCENTRATION EXCEEDING THE NYSDEC AMBIENT WATER QUALITY STANDARDS OR GUIDANCE VALUES.
- COMPOUND(S) DETECTED AT A CONCENTRATION EXCEEDING THE NYSDEC AMBIENT WATER QUALITY STANDARDS OR GUIDANCE VALUE

30 0 60
GRAPHIC SCALE IN FEET

AECOM

DRAFT

CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250

GROUNDWATER ANALYTICAL RESULTS

DATE: 10/10/15 | DRWN: RCW | **FIGURE 4-8**

3RD AVENUE

3RD AVENUE

3RD STREET

1ST STREET

CURB
CONC. WALK

D-01 D-02 D-03 D-04 D-05 D-06 D-07 D-08 D-09 D-10

Demo Area

NO BORING DUE TO DRYWELLS

DRY WELLS

STORES BUILDING

S-01 S-02 S-03 S-04 S-05 S-06 S-07 S-08 S-09 S-10 S-11 S-12 S-13 S-14 S-15 S-16 S-17 S-18 S-19 S-20 S-21 S-22 S-23 S-24 S-25 S-26 S-27 S-28 S-29 S-30 S-31 S-32 S-33 S-34 S-35 S-36 S-37 S-38 S-39

SERVICE BOX

N-01 N-02 N-03 N-04 N-05 N-06 N-07 N-08 N-09 N-10 N-11 N-12 N-13 N-14 N-15 N-16

POLE/CABLE REEL STORAGE

Southern Area

Northern Area

NO BORING DUE TO ENTRANCE

NO BORING DUE TO ENTRANCE

OPERATIONS AND TRANSPORTATION BUILDING

F-01 F-02 F-03 F-04

FLUSH TRUCK AREA

NEW FACILITY BUILDING

E-01 E-02 E-03 E-04

EAST PARKING LOT

Legend

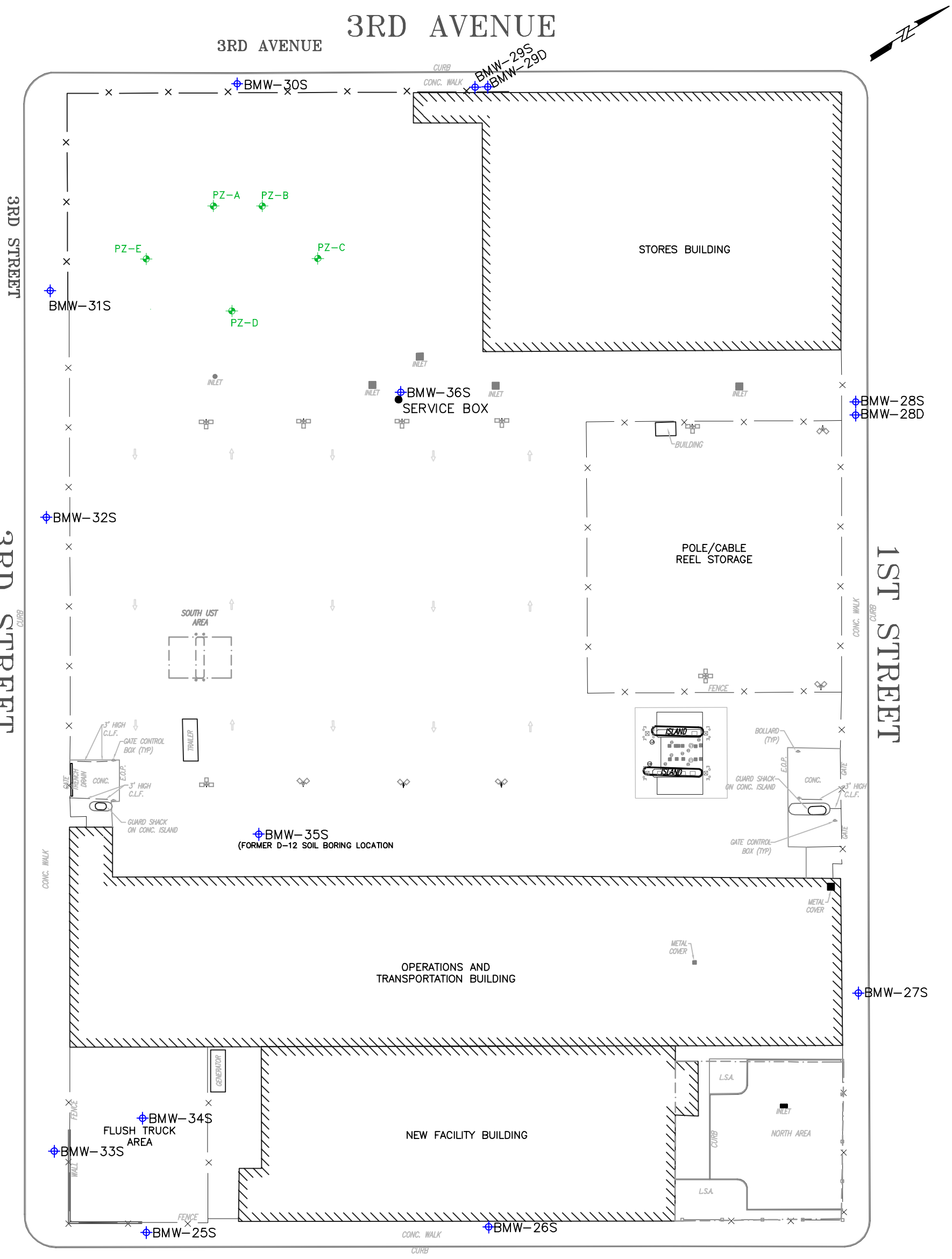
Soil Borings

- Surface and Subsurface
- Surface Only
- 50 ft Grid
- ServiceBox
- DryWells

0 25 50 100 150 200 Feet

N

CON EDISON **3RD AVE. YARD 222 1ST ST. BROOKLYN, NY** 60317048-250		**PROPOSED SOIL SAMPLING LOCATIONS**	
DATE: 11/6/2017			Figure 5-1



LEGEND

UTILITY POLE	EXISTING BUILDING
BOLLARD	EXISTING FENCE
AREA LIGHT	HISTORIC STRUCTURE
C.L.F. CHAIN LINK FENCE	SERVICE BOX
E.O.P. EDGE OF PAVEMENT	PROPOSED SHALLOW AND DEEP MONITORING WELLS
L.S.A. LANDSCAPED AREA	PROPOSED PIEZOMETER WELLS

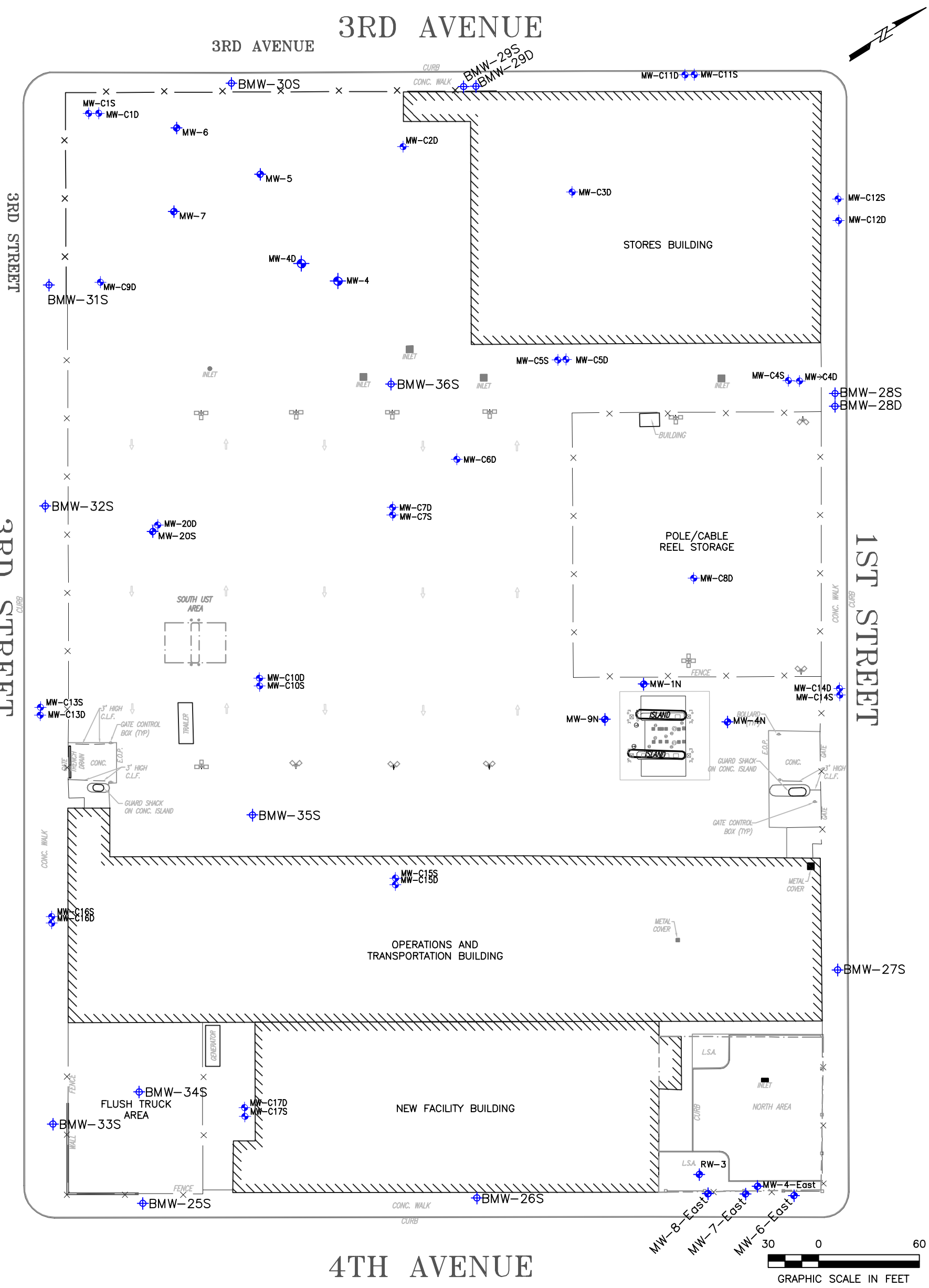
AECOM

DRAFT

CON EDISON
3RD AVE. YARD 222 1ST ST. BROOKLYN, NY
60317048-250

PROPOSED LOCATIONS FOR MONITORING WELL AND PIEZOMETER INSTALLATION

DATE: 02/15/2017 | DRWN: RCW | **FIGURE 5-2**



LEGEND

⊸	UTILITY POLE		EXISTING BUILDING
•	BOLLARD	×	EXISTING FENCE
⊏	AREA LIGHT		HISTORIC STRUCTURE
C.L.F.	CHAIN LINK FENCE	⊕	EXISTING MONITORING WELLS
E.O.P.	EDGE OF PAVEMENT	⊕	NEW MONITORING WELLS
L.S.A.	LANDSCAPED AREA		

NOTE: AN INTIAL GAUGING ROUND WILL INCLUDE ALL THE WELLS ON THE PROPERTY.

AECOM

DRAFT

CON EDISON 3RD AVE. YARD 222 1ST ST. BROOKLYN, NY 60317048-250		**PROPOSED MONITORING WELLS FOR GAUGING AND SAMPLING**
DATE: 02/15/2017	DRWN: RCW	**FIGURE 5-3**

Appendices

Appendix A

Analytical Results of Previous Investigations

Site-Wide Investigation

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-7 0.5-1 5/22/2013 D7 (0.5-1)052213 3052319	D-7 12-13 5/29/2013 D7(12-13)052913 3053020	D-7 16-17 5/29/2013 D7(16-17)052913 3053020	D-7 33-34 5/29/2013 D7(33-34)052913 3053020	D-8 0.5-1 5/22/2013 D8 (0.5-1)0522133 3052319	D-8 12-13 5/29/2013 D8(12-13)052913 3053020	D-8 16-17 5/29/2013 D8(16-17)052913 3053020	D-8 29-30 5/29/2013 D8(29-30)052913 3053020	D-9 12-12 5/29/2013 D9(12-13)052913 3053020	D-9 16-17 5/29/2013 D9(16-17)052913 3053020	D-9 29-30 5/29/2013 D9(29-30)052913 3053020	D-10 0.5-1 5/23/2013 D10 (0.5-1)052313 3052319
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
BTEX mg/Kg																		
Benzene	71-43-2	0.06	4.8	44	89		< 0.0013 U	< 1.8 U	< 0.085 U	< 0.0019 U	< 0.0013 U	< 0.0013 U	< 0.0018 U	< 0.0020 U	< 0.0015 U	< 0.0015 U	< 0.0019 U	< 0.00098 U
Ethylbenzene	100-41-4	1	41	390	780		< 0.0013 U	**14**	**0.17**	< 0.0019 U	R	< 0.0013 U	< 0.0018 U	< 0.0020 U	< 0.0015 U	< 0.0015 U	< 0.0019 U	< 0.00098 U
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		< 0.0013 U	**3.9**	< 0.17 U	< 0.0037 UJ	R	< 0.0027 UJ	< 0.0035 UJ	< 0.0040 UJ	< 0.0029 UJ	< 0.0029 UJ	< 0.0038 UJ	< 0.00098 U
o-Xylene	95-47-6	NL	NL	NL	NL		< 0.0013 U	< 3.5 U	< 0.17 U	< 0.0019 UJ	R	< 0.0013 UJ	< 0.0018 UJ	< 0.0020 UJ	< 0.0015 UJ	< 0.0015 UJ	< 0.0019 UJ	< 0.00098 U
Toluene	108-88-3	0.7	100	500	1000		< 0.0013 U	< 3.5 U	< 0.17 U	< 0.0019 U	< 0.0013 U	< 0.0013 U	< 0.0018 U	< 0.0020 U	< 0.0015 U	< 0.0015 U	< 0.0019 U	< 0.00098 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		< 0.0013 U	**3.9**	< 0.17 U	< 0.0019 UJ	R	< 0.0013 UJ	< 0.0018 UJ	< 0.0020 UJ	< 0.0015 UJ	< 0.0015 UJ	< 0.0019 UJ	< 0.00098 U
Total BTEX		NL	NL	NL	NL		ND	**17.9**	**0.17**	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOC (mg/Kg)																		
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 0.0025 UJ	< 3.5 U	< 0.17 U	< 0.0037 U	R	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 UJ	R	< 0.0027 UJ	< 0.0035 UJ	< 0.0040 UJ	< 0.0029 UJ	< 0.0029 UJ	< 0.0038 UJ	< 0.0020 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 UJ	R	< 0.0027 UJ	< 0.0035 UJ	< 0.0040 UJ	< 0.0029 UJ	< 0.0029 UJ	< 0.0038 UJ	< 0.0020 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	R	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 UJ	R	< 0.0027 UJ	< 0.0035 UJ	< 0.0040 UJ	< 0.0029 UJ	< 0.0029 UJ	< 0.0038 UJ	< 0.0020 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.0025 U	< 1.8 U	< 0.085 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 UJ	R	< 0.0027 UJ	< 0.0035 UJ	< 0.0040 UJ	< 0.0029 UJ	< 0.0029 UJ	< 0.0038 UJ	< 0.0020 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	R	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	0.12	100	500	1000		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
2-Hexanone	591-78-6	NL	NL	NL	NL		< 0.0025 UJ	< 3.5 UJ	< 0.17 UJ	< 0.0037 U	< 0.0027 UJ	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 UJ
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 0.0025 UJ	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 UJ	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 UJ
Acetone	67-64-1	0.05	100	500	1000		R	< 35 U	< 1.7 U	**0.052 J**	R	R	**0.041 J**	**0.14 J**	**0.066 J**	R	**0.068 J**	R
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Bromoform	75-25-2	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	R	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Bromomethane	74-83-9	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	**0.037**	< 0.0027 U	< 0.0027 U	< 0.0035 U	**0.062**	< 0.0029 U	< 0.0029 U	**0.019**	< 0.0020 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Chlorobenzene	108-90-7	1.1	100	500	1000		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 UJ	< 0.0027 U	< 0.0027 UJ	< 0.0035 UJ	< 0.0040 UJ	< 0.0029 UJ	< 0.0029 UJ	< 0.0038 UJ	< 0.0020 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Chloroform	67-66-3	0.37	49	350	700		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 0.0025 UJ	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 UJ	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 UJ
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 0.0025 U	< 3.5 UJ	< 0.17 UJ	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Cyclohexane	110-82-7	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 UJ	**0.013 J**	< 0.0027 UJ	< 0.0035 UJ	< 0.0040 UJ	< 0.0029 UJ	< 0.0029 UJ	< 0.0038 UJ	< 0.0020 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Isopropylbenzene	98-82-8	NL	NL	NL	NL		< 0.0013 U	< 3.5 U	< 0.17 U	< 0.0019 UJ	R	< 0.0013 UJ	< 0.0018 UJ	< 0.0020 UJ	< 0.0015 UJ	< 0.0015 UJ	< 0.0019 UJ	< 0.00098 U
Methyl acetate	79-20-9	NL	NL	NL	NL		< 0.0025 UJ	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 UJ	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 UJ
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.0013 U	< 1.8 U	< 0.085 U	< 0.0019 U	< 0.0013 U	< 0.0013 U	< 0.0018 U	< 0.0020 U	< 0.0015 U	< 0.0015 U	< 0.0019 U	< 0.00098 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		**0.0031**	< 3.5 U	< 0.17 U	< 0.0037 UJ	**0.015 J**	< 0.0027 UJ	< 0.0035 UJ	< 0.0040 UJ	< 0.0029 UJ	**0.0085 J**	< 0.0038 UJ	< 0.0020 U
Methylene chloride	75-09-2	0.05	100	500	1000		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Styrene	100-42-5	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	R	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Tetrachloroethene	127-18-4	1.3	19	150	300		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 UJ	< 0.0027 U	< 0.0027 UJ	< 0.0035 UJ	< 0.0040 UJ	< 0.0029 UJ	< 0.0029 UJ	< 0.0038 UJ	< 0.0020 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 0.0025 U	< 3.5 UJ	< 0.17 UJ	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Trichloroethene	79-01-6	0.47	21	200	400		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 0.0025 U	< 3.5 U	< 0.17 U	< 0.0037 U	< 0.0027 U	< 0.0027 U	< 0.0035 U	< 0.0040 U	< 0.0029 U	< 0.0029 U	< 0.0038 U	< 0.0020 U
Total VOC		NL	NL	NL	NL		**0.0031**	**17.9**	**0.17**	**0.089**	**0.028**	ND	**0.041**	**0.202**	**0.066**	**0.0085**	**0.087**	ND

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-7 0.5-1 5/22/2013 D7 (0.5-1)052213 3052319	D-7 12-13 5/29/2013 D7(12-13)052913 3053020	D-7 16-17 5/29/2013 D7(16-17)052913 3053020	D-7 33-34 5/29/2013 D7(33-34)052913 3053020	D-8 0.5-1 5/22/2013 D8 (0.5-1)0522133 3052319	D-8 12-13 5/29/2013 D8(12-13)052913 3053020	D-8 16-17 5/29/2013 D8(16-17)052913 3053020	D-8 29-30 5/29/2013 D8(29-30)052913 3053020	D-9 12-12 5/29/2013 D9(12-13)052913 3053020	D-9 16-17 5/29/2013 D9(16-17)052913 3053020	D-9 29-30 5/29/2013 D9(29-30)052913 3053020	D-10 0.5-1 5/23/2013 D10 (0.5-1)052313 3052319
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
PAH (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		< 0.077 U	**260**	**21**	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	**0.067**	< 0.051 U	< 0.038 U
Acenaphthene	83-32-9	20	100	500	1000		**0.12**	**500**	**52**	< 0.052 U	< 0.56 U	**0.15**	< 0.054 U	< 0.056 U	< 0.046 U	**0.39**	< 0.051 U	< 0.038 U
Acenaphthylene	208-96-8	100	100	500	1000		**0.08**	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	**0.12**	< 0.051 U	**0.29**
Anthracene	120-12-7	100	100	500	1000		**0.47**	**170**	**17**	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	**0.071**	**0.4**	< 0.051 U	**0.24**
Benzo(a)anthracene	56-55-3	1	1	5.6	11		**1.6**	**70**	**11**	< 0.052 U	**0.61**	**0.063**	< 0.054 U	< 0.056 U	**0.26**	**1.6**	< 0.051 U	**0.76**
Benzo(a)pyrene	50-32-8	1	1	1	1.1		**1.4**	**76**	**11**	< 0.052 U	< 0.56 U	**0.059**	< 0.054 U	< 0.056 U	**0.24**	**1.6**	< 0.051 U	**1.1**
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		**2.1**	< 60 U	**9.2**	< 0.052 U	**0.78**	**0.076**	< 0.054 U	< 0.056 U	**0.33**	**1.7**	< 0.051 U	**1.4**
Benzo(ghi)perylene	191-24-2	100	100	500	1000		**1.2**	**62**	**9.3**	< 0.052 U	< 0.56 U	**0.042**	< 0.054 U	< 0.056 U	**0.18**	**1.2**	< 0.051 U	**0.69**
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		**0.59**	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	**0.11**	**0.46**	< 0.051 U	**0.46**
Chrysene	218-01-9	1	3.9	56	110		**1.6**	< 60 U	**8.6**	< 0.052 U	**1.1**	**0.06**	< 0.054 U	< 0.056 U	**0.26**	**1.6**	< 0.051 U	**0.76**
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		**0.32**	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	**0.046**	**0.26**	< 0.051 U	**0.28**
Fluoranthene	206-44-0	100	100	500	1000		**3.3**	**210**	**29**	< 0.052 U	**2.2**	**0.11**	< 0.054 U	< 0.056 U	**0.53**	**2.5**	< 0.051 U	**0.98**
Fluorene	86-73-7	30	100	500	1000		**0.15**	**180**	**21**	< 0.052 U	**0.6**	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	**0.1**	< 0.051 U	< 0.038 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		**0.99**	< 60 U	**5.4**	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	**0.15**	**0.85**	< 0.051 U	**0.7**
Naphthalene	91-20-3	12	100	500	1000		**0.11**	**5100**	**290**	**0.14**	< 0.14 U	**0.37**	**0.11**	**0.028**	**0.041**	**0.81**	< 0.013 U	**0.042**
Phenanthrene	85-01-8	100	100	500	1000		**2.1**	**540**	**68**	< 0.052 U	**1.9**	**0.069**	< 0.054 U	< 0.056 U	**0.32**	**0.93**	< 0.051 U	**0.31**
Pyrene	129-00-0	100	100	500	1000		**3.2**	**350**	**49**	< 0.052 U	**2.2**	**0.11**	< 0.054 U	< 0.056 U	**0.53**	**2.7**	< 0.051 U	**0.99**
Total PAH		500	NL	NL	NL	500	**19.33**	**7518**	**601.5**	**0.14**	**9.39**	**1.109**	**0.11**	**0.028**	**3.068**	**17.287**	ND	**9.002**
SVOC (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		< 0.077 U	**180**	**16**	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 0.019 U	< 15 U	< 1.2 U	< 0.013 U	< 0.14 U	< 0.010 U	< 0.013 U	< 0.014 U	< 0.012 U	< 0.010 U	< 0.013 U	< 0.0096 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 0.019 U	< 15 U	< 1.2 U	< 0.013 U	< 0.14 U	< 0.010 U	< 0.013 U	< 0.014 U	< 0.012 U	< 0.010 U	< 0.013 U	< 0.0096 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 0.38 U	< 300 U	< 23 U	< 0.26 U	< 2.8 U	< 0.20 U	< 0.27 U	< 0.28 U	< 0.23 U	< 0.21 U	< 0.26 U	< 0.19 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 0.019 U	< 15 U	< 1.2 U	< 0.013 U	< 0.14 U	< 0.010 U	< 0.013 U	< 0.014 U	< 0.012 U	< 0.010 U	< 0.013 U	< 0.0096 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 0.38 U	< 300 U	< 23 U	< 0.26 U	< 2.8 U	< 0.20 U	< 0.27 U	< 0.28 U	< 0.23 U	< 0.21 U	< 0.26 U	< 0.19 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 0.036 U	< 28 U	< 2.2 U	< 0.025 U	< 0.26 U	< 0.019 U	< 0.025 U	< 0.026 U	< 0.022 U	< 0.020 U	< 0.024 U	< 0.018 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
4-Methylphenol	106-44-5	0.33	100	500	1000		< 0.019 U	< 15 U	< 1.2 U	< 0.013 U	< 0.14 U	< 0.010 U	< 0.013 U	< 0.014 U	**0.034**	< 0.010 U	< 0.013 U	< 0.0096 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	**0.07**	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 0.019 U	< 15 U	< 1.2 U	< 0.013 U	< 0.14 U	< 0.010 U	< 0.013 U	< 0.014 U	< 0.012 U	< 0.010 U	< 0.013 U	< 0.0096 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Carbazole	86-74-8	NL	NL	NL	NL		**0.14**	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	**0.081**	< 0.051 U	< 0.038 U
Dibenzofuran	132-64-9	7	59	350	1000		**0.098**	< 15 U	< 1.2 U	< 0.013 U	**0.29**	< 0.010 U	< 0.013 U	< 0.014 U	< 0.012 U	**0.051**	< 0.013 U	< 0.0096 U
Diethyl phthalate	84-66-2	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		< 0.039 U	< 30 U	< 2.3 U	< 0.026 U	< 0.28 U	< 0.020 U	< 0.027 U	< 0.028 U	< 0.023 U	< 0.021 U	< 0.026 U	< 0.019 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 0.077 UJ	< 300 UJ	< 23 UJ	< 0.26 U	< 0.56 UJ	< 0.20 U	< 0.27 U	< 0.28 U	< 0.23 U	< 0.21 U	< 0.26 U	< 0.038 UJ
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Isophorone	78-59-1	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 0.019 U	< 15 U	< 1.2 U	< 0.013 U	< 0.14 U	< 0.010 U	< 0.013 U	< 0.014 U	< 0.012 U	< 0.010 U	< 0.013 U	< 0.0096 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 0.38 U	< 300 U	< 23 U	< 0.26 U	< 2.8 U	< 0.20 U	< 0.27 U	< 0.28 U	< 0.23 U	< 0.21 U	< 0.26 U	< 0.19 U
Phenol	108-95-2	0.33	100	500	1000		< 0.077 U	< 60 U	< 4.6 U	< 0.052 U	< 0.56 U	< 0.041 U	< 0.054 U	< 0.056 U	< 0.046 U	< 0.041 U	< 0.051 U	< 0.038 U
Total SVOC		NL	NL	NL	NL		**19.568**	**7698**	**617.5**	**0.14**	**9.68**	**1.109**	**0.18**	**0.028**	**3.102**	**17.419**	ND	**9.002**

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-7 0.5-1 5/22/2013 D7 (0.5-1)052213 3052319	D-7 12-13 5/29/2013 D7(12-13)052913 3053020	D-7 16-17 5/29/2013 D7(16-17)052913 3053020	D-7 33-34 5/29/2013 D7(33-34)052913 3053020	D-8 0.5-1 5/22/2013 D8 (0.5-1)0522133 3052319	D-8 12-13 5/29/2013 D8(12-13)052913 3053020	D-8 16-17 5/29/2013 D8(16-17)052913 3053020	D-8 29-30 5/29/2013 D8(29-30)052913 3053020	D-9 12-12 5/29/2013 D9(12-13)052913 3053020	D-9 16-17 5/29/2013 D9(16-17)052913 3053020	D-9 29-30 5/29/2013 D9(29-30)052913 3053020	D-10 0.5-1 5/23/2013 D10 (0.5-1)052313 3052319
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
Metals (mg/Kg)																		
Arsenic	7440-38-2	13	16	16	16		**4.7**	NS	NS	NS	**7**	NS	NS	NS	NS	NS	NS	**6.4**
Barium	7440-39-3	350	400	400	10000		**70**	NS	NS	NS	**63**	NS	NS	NS	NS	NS	NS	**79**
Cadmium	7440-43-9	2.5	4.3	9.3	60		< 0.69 U	NS	NS	NS	< 0.67 U	NS	NS	NS	NS	NS	NS	< 0.69 U
Chromium	7440-47-3	30	180	1500	6800		**9.8**	NS	NS	NS	**5.6**	NS	NS	NS	NS	NS	NS	**11**
Lead	7439-92-1	63	400	1000	3900		**160**	NS	NS	NS	**260**	NS	NS	NS	NS	NS	NS	**180**
Mercury	7439-97-6	0.18	0.81	2.8	5.7		**0.13**	NS	NS	NS	< 0.093 U	NS	NS	NS	NS	NS	NS	**0.3**
Selenium	7782-49-2	3.9	180	1500	6800		< 2.1 U	NS	NS	NS	< 2.0 U	NS	NS	NS	NS	NS	NS	< 2.1 U
Silver	7440-22-4	2	180	1500	6800		< 1.7 U	NS	NS	NS	< 1.7 U	NS	NS	NS	NS	NS	NS	< 1.7 U
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1221	11104-28-2	NL	NL	NL	NL		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1232	11141-16-5	NL	NL	NL	NL		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1242	53469-21-9	NL	NL	NL	NL		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	12672-29-6	NL	NL	NL	NL		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1254	11097-69-1	NL	NL	NL	NL		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	11096-82-5	NL	NL	NL	NL		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1262	37324-23-5	NL	NL	NL	NL		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1268	11100-14-4	NL	NL	NL	NL		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		NS	< 0.045 U	< 0.035 U	< 0.039 U	NS	NS	NS	NS	NS	NS	NS	NS
Fuel Oil (mg/Kg)																		
TPH (SGT-HEM)	TPH	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Percent Solids																		
Solids, percent	SOLID	NL	NL	NL	NL		**87**	**56**	**72**	**64**	**90**	**82**	**62**	**60**	**72**	**81**	**65**	**87**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-10 12-13 5/29/2013 D10(12-13)052913 3053020	D-10 DUP 12-13 5/29/2013 DUPLICATE_1_052913 3053020	D-10 16-17 5/29/2013 D10(16-17)052913 3053020	D-10 28-29 5/29/2013 D10(28-29)052913 3053020	D-11 12-13 8/13/2013 D11(12-13)081313 3081318	D-11 16-18 8/13/2013 D11(16-18)081313 3081318	D-11 34-35 8/13/2013 D11(34-35)081313 3081318	D-12 12-13 8/13/2013 D12(12-13) 3081318	D-12 20-22 8/13/2013 D12 (20-22)081313 3081911	D-12 33-35 8/13/2013 D12(33-35)081313 3081318	D-12 39-40 8/13/2013 D12(39-40)081313 3081318	D-13 12-13 8/13/2013 D13(12-13)081313 3081318
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
BTEX mg/Kg																		
Benzene	71-43-2	0.06	4.8	44	89		< 0.0012 U	< 0.0012 U	< 0.0013 U	< 0.0019 U	< 0.0012 U	< 0.0011 U	< 0.0012 U	< 6.9 UJ	R	< 0.0018 U	< 0.0011 U	< 0.20 UJ
Ethylbenzene	100-41-4	1	41	390	780		< 0.0012 UJ	< 0.0012 U	< 0.0013 U	< 0.0019 U	< 0.0012 U	< 0.0011 U	< 0.0012 U	< 14 U	R	< 0.0018 U	< 0.0011 U	**3.1**
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		< 0.0025 UJ	< 0.0025 UJ	< 0.0025 UJ	< 0.0037 UJ	< 0.0012 U	< 0.0011 U	< 0.0012 U	< 14 U	R	< 0.0018 U	< 0.0011 U	**0.64**
o-Xylene	95-47-6	NL	NL	NL	NL		< 0.0012 UJ	< 0.0012 UJ	< 0.0013 UJ	< 0.0019 UJ	< 0.0012 U	< 0.0011 U	< 0.0012 U	< 14 U	R	< 0.0018 U	< 0.0011 U	< 0.40 U
Toluene	108-88-3	0.7	100	500	1000		< 0.0012 U	< 0.0012 U	< 0.0013 U	< 0.0019 U	< 0.0012 U	< 0.0011 U	< 0.0012 U	< 14 U	R	< 0.0018 U	< 0.0011 U	< 0.40 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		< 0.0012 UJ	< 0.0012 UJ	< 0.0013 UJ	< 0.0019 UJ	< 0.0012 U	< 0.0011 U	< 0.0012 U	< 14 U	R	< 0.0018 U	< 0.0011 U	**0.64**
Total BTEX		NL	NL	NL	NL		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.74**
VOC (mg/Kg)																		
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 UJ	< 0.0022 U	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 0.0025 UJ	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 0.0025 UJ	< 0.0025 UJ	< 0.0025 UJ	< 0.0037 UJ	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 0.0025 UJ	< 0.0025 UJ	< 0.0025 UJ	< 0.0037 UJ	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 UJ	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 UJ
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 0.0025 UJ	< 0.0025 UJ	< 0.0025 UJ	< 0.0037 UJ	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0012 U	< 0.0011 U	< 0.0012 U	< 6.9 U	R	< 0.0018 U	< 0.0011 U	< 0.20 U
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 0.0025 UJ	< 0.0025 UJ	< 0.0025 UJ	< 0.0037 UJ	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		R	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	0.12	100	500	1000		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
2-Hexanone	591-78-6	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Acetone	67-64-1	0.05	100	500	1000		**0.034 J**	**0.052 J**	R	**0.089 J**	R	R	R	< 140 U	**0.057 J**	**0.045 J**	R	< 4.0 U
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Bromoform	75-25-2	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Bromomethane	74-83-9	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	**0.027**	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	**0.014**	**0.0041**	< 0.40 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
Chlorobenzene	108-90-7	1.1	100	500	1000		< 0.0025 UJ	< 0.0025 UJ	< 0.0025 UJ	< 0.0037 UJ	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Chloroform	67-66-3	0.37	49	350	700		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Cyclohexane	110-82-7	NL	NL	NL	NL		< 0.0025 UJ	< 0.0025 UJ	< 0.0025 UJ	< 0.0037 UJ	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
Isopropylbenzene	98-82-8	NL	NL	NL	NL		< 0.0012 UJ	< 0.0012 UJ	< 0.0013 UJ	< 0.0019 UJ	< 0.0012 U	< 0.0011 U	< 0.0012 U	< 14 UJ	R	< 0.0018 U	< 0.0011 U	**1.4 J**
Methyl acetate	79-20-9	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.0012 U	< 0.0012 U	< 0.0013 U	< 0.0019 U	< 0.0012 UJ	< 0.0011 UJ	< 0.0012 UJ	< 6.9 U	R	< 0.0018 U	< 0.0011 UJ	< 0.20 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		< 0.0025 UJ	< 0.0025 UJ	< 0.0025 UJ	< 0.0037 UJ	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	**0.71**
Methylene chloride	75-09-2	0.05	100	500	1000		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Styrene	100-42-5	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 UJ	R	< 0.0036 U	< 0.0022 U	< 0.40 UJ
Tetrachloroethene	127-18-4	1.3	19	150	300		< 0.0025 UJ	< 0.0025 UJ	< 0.0025 UJ	< 0.0037 UJ	< 0.0024 U	< 0.0022 UJ	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Trichloroethene	79-01-6	0.47	21	200	400		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 UJ	< 0.0022 UJ	< 0.0023 UJ	< 14 U	R	< 0.0036 UJ	< 0.0022 UJ	< 0.40 U
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 0.0025 U	< 0.0025 U	< 0.0025 U	< 0.0037 U	< 0.0024 U	< 0.0022 U	< 0.0023 U	< 14 U	R	< 0.0036 U	< 0.0022 U	< 0.40 U
Total VOC		NL	NL	NL	NL		**0.034**	**0.052**	ND	**0.116**	ND	ND	ND	ND	**0.057**	**0.059**	**0.0041**	**5.85**

Table F-1
Summary of Soil Analytical Results
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3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-10 12-13 5/29/2013 D10(12-13)052913 3053020	D-10 DUP 12-13 5/29/2013 DUPLICATE_1_052913 3053020	D-10 16-17 5/29/2013 D10(16-17)052913 3053020	D-10 28-29 5/29/2013 D10(28-29)052913 3053020	D-11 12-13 8/13/2013 D11(12-13)081313 3081318	D-11 16-18 8/13/2013 D11(16-18)081313 3081318	D-11 34-35 8/13/2013 D11(34-35)081313 3081318	D-12 12-13 8/13/2013 D12(12-13) 3081318	D-12 20-22 8/13/2013 D12 (20-22)081313 3081911	D-12 33-35 8/13/2013 D12(33-35)081313 3081318	D-12 39-40 8/13/2013 D12(39-40)081313 3081318	D-13 12-13 8/13/2013 D13(12-13)081313 3081318
		Unrestricted Use	Restricted Residential	Commercial	Industrial													
PAH (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		**0.079**	< 0.039 U	**4.3**	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	**610**	**0.083**	**0.58**	< 0.042 U	**62**
Acenaphthene	83-32-9	20	100	500	1000		**0.17 J**	**0.062 J**	**17**	< 0.054 U	< 0.039 U	< 0.039 UJ	< 0.041 U	**1700**	**0.22**	**1.9**	< 0.042 U	**300**
Acenaphthylene	208-96-8	100	100	500	1000		**0.047**	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	**160**	< 0.040 U	**0.21**	< 0.042 U	**46**
Anthracene	120-12-7	100	100	500	1000		**0.40 J**	**0.11 J**	**22**	< 0.054 U	< 0.039 U	< 0.039 UJ	< 0.041 U	**370**	**0.084**	**0.36**	< 0.042 U	**280**
Benzo(a)anthracene	56-55-3	1	1	5.6	11		**1.0 J**	**0.30 J**	**33**	< 0.054 U	**0.082**	**0.049 J**	< 0.041 U	**210**	**0.14**	**0.28**	< 0.042 U	**140**
Benzo(a)pyrene	50-32-8	1	1	1	1.1		**0.97 J**	**0.28 J**	**24**	< 0.054 U	**0.063**	< 0.039 UJ	< 0.041 U	**230**	**0.15**	**0.31**	< 0.042 U	**170**
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		**1.3 J**	**0.38 J**	**29**	< 0.054 U	**0.079**	< 0.039 UJ	< 0.041 U	**160**	**0.16**	**0.22**	< 0.042 U	**120**
Benzo(ghi)perylene	191-24-2	100	100	500	1000		**0.61 J**	**0.21 J**	**14**	< 0.054 U	**0.043**	< 0.039 UJ	< 0.041 U	**160**	**0.11**	**0.22**	< 0.042 U	**110**
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		**0.37 J**	**0.11 J**	**9.7**	< 0.054 U	< 0.039 U	< 0.039 UJ	< 0.041 U	< 94 U	**0.064**	**0.059**	< 0.042 U	**26**
Chrysene	218-01-9	1	3.9	56	110		**1.1 J**	**0.29 J**	**31**	< 0.054 U	**0.067**	**0.040 J**	< 0.041 U	**170**	**0.15**	**0.16**	< 0.042 U	**110**
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		**0.14**	**0.059**	**4.3**	< 0.054 U	< 0.039 U	< 0.039 UJ	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	**12**
Fluoranthene	206-44-0	100	100	500	1000		**2.3 J**	**0.58 J**	**73**	< 0.054 U	**0.11**	**0.092 J**	< 0.041 U	**670**	**0.28**	**0.77**	< 0.042 U	**370**
Fluorene	86-73-7	30	100	500	1000		**0.23 J**	**0.061 J**	**14**	< 0.054 U	< 0.039 U	< 0.039 UJ	< 0.041 U	**650**	**0.1**	**0.76**	< 0.042 U	**150**
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		**0.50 J**	**0.18 J**	**13**	< 0.054 U	**0.043**	< 0.039 UJ	< 0.041 U	< 94 U	**0.088**	**0.12**	< 0.042 U	**67**
Naphthalene	91-20-3	12	100	500	1000		**0.23 J**	**0.063 J**	**7.8**	**0.029**	**0.02**	< 0.0098 UJ	< 0.010 U	**6500**	**1.9**	**2.9**	**0.041**	**320**
Phenanthrene	85-01-8	100	100	500	1000		**1.9 J**	**0.55 J**	**89**	< 0.054 U	**0.086**	**0.11 J**	< 0.041 U	**1900**	**0.39**	**2.3**	< 0.042 U	**780**
Pyrene	129-00-0	100	100	500	1000		**2.2 J**	**0.56 J**	**69**	< 0.054 U	**0.16**	**0.099 J**	< 0.041 U	**1100**	**0.37**	**1.6**	< 0.042 U	**740**
Total PAH		500	NL	NL	NL	500	**13.546**	**3.795**	**454.1**	**0.029**	**0.753**	**0.39**	ND	**14590**	**4.289**	**12.749**	**0.041**	**3803**
SVOC (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	**520**	**0.069**	**0.55**	< 0.042 U	< 12 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 0.010 U	< 0.0097 U	< 0.33 U	< 0.013 U	< 0.0097 U	< 0.0098 U	< 0.010 U	< 23 U	< 0.010 U	< 0.014 U	< 0.011 U	< 2.9 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 0.010 U	< 0.0097 U	< 0.33 U	< 0.013 U	< 0.0097 U	< 0.0098 U	< 0.010 U	< 23 U	< 0.010 U	< 0.014 U	< 0.011 U	< 2.9 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 0.21 U	< 0.19 U	< 6.6 U	< 0.27 U	< 0.19 U	< 0.20 U	< 0.21 U	< 470 U	< 0.20 U	< 0.28 U	< 0.21 U	< 58 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 0.010 U	< 0.0097 U	< 0.33 U	< 0.013 U	< 0.0097 U	< 0.0098 UJ	< 0.010 U	< 23 U	< 0.010 U	< 0.014 U	< 0.011 U	< 2.9 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 0.21 U	< 0.19 U	< 6.6 U	< 0.27 U	< 0.19 U	< 0.20 U	< 0.21 U	< 470 U	< 0.20 U	< 0.28 U	< 0.21 U	< 58 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 0.020 U	< 0.018 U	< 0.62 U	< 0.025 U	< 0.018 U	< 0.019 U	< 0.020 U	< 45 U	< 0.019 U	< 0.027 U	< 0.020 U	< 5.5 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
4-Methylphenol	106-44-5	0.33	100	500	1000		**0.23 J**	< 0.0097 UJ	< 0.33 U	< 0.013 U	< 0.0097 U	< 0.0098 U	< 0.010 U	< 23 U	< 0.010 U	< 0.014 U	< 0.011 U	< 2.9 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 0.010 U	< 0.0097 U	< 0.33 U	< 0.013 U	< 0.0097 U	< 0.0098 U	< 0.010 U	< 23 U	< 0.010 U	< 0.014 U	< 0.011 U	< 2.9 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Carbazole	86-74-8	NL	NL	NL	NL		**0.11**	**0.045**	**8.3**	< 0.054 U	< 0.039 U	< 0.039 UJ	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Dibenzofuran	132-64-9	7	59	350	1000		**0.13 J**	**0.043 J**	**9.1**	< 0.013 U	< 0.0097 U	< 0.0098 UJ	< 0.010 U	< 23 U	< 0.010 U	< 0.014 U	< 0.011 U	< 2.9 U
Diethyl phthalate	84-66-2	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	**0.17**	**0.12 J**	**0.17**	< 94 U	< 0.040 U	**0.50 J**	**0.38 J**	< 12 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		< 0.021 U	< 0.019 U	< 0.66 U	< 0.027 U	< 0.019 U	< 0.020 U	< 0.021 U	< 47 U	< 0.020 U	< 0.028 U	< 0.021 U	< 5.9 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 0.21 U	< 0.19 U	< 6.6 U	< 0.27 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 UJ	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Isophorone	78-59-1	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 0.010 U	< 0.0097 U	< 0.33 U	< 0.013 U	< 0.0097 U	< 0.0098 U	< 0.010 U	< 23 U	< 0.010 U	< 0.014 U	< 0.011 U	< 2.9 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 0.21 U	< 0.19 U	< 6.6 U	< 0.27 U	< 0.19 U	< 0.20 U	< 0.21 U	< 470 U	< 0.20 U	< 0.28 U	< 0.21 U	< 58 U
Phenol	108-95-2	0.33	100	500	1000		< 0.042 U	< 0.039 U	< 1.3 U	< 0.054 U	< 0.039 U	< 0.039 U	< 0.041 U	< 94 U	< 0.040 U	< 0.056 U	< 0.042 U	< 12 U
Total SVOC		NL	NL	NL	NL		**14.016**	**3.883**	**471.5**	**0.029**	**0.923**	**0.51**	**0.17**	**15110**	**4.358**	**13.799**	**0.421**	**3803**

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-10 12-13 5/29/2013 D10(12-13)052913 3053020	D-10 DUP 12-13 5/29/2013 DUPLICATE_1_052913 3053020	D-10 16-17 5/29/2013 D10(16-17)052913 3053020	D-10 28-29 5/29/2013 D10(28-29)052913 3053020	D-11 12-13 8/13/2013 D11(12-13)081313 3081318	D-11 16-18 8/13/2013 D11(16-18)081313 3081318	D-11 34-35 8/13/2013 D11(34-35)081313 3081318	D-12 12-13 8/13/2013 D12(12-13) 3081318	D-12 20-22 8/13/2013 D12 (20-22)081313 3081911	D-12 33-35 8/13/2013 D12(33-35)081313 3081318	D-12 39-40 8/13/2013 D12(39-40)081313 3081318	D-13 12-13 8/13/2013 D13(12-13)081313 3081318
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
Metals (mg/Kg)																		
Arsenic	7440-38-2	13	16	16	16		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	7440-39-3	350	400	400	10000		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	2.5	4.3	9.3	60		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	7440-47-3	30	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	63	400	1000	3900		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	7439-97-6	0.18	0.81	2.8	5.7		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	7782-49-2	3.9	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	7440-22-4	2	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	< 0.044 U
Aroclor 1221	11104-28-2	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	< 0.044 U
Aroclor 1232	11141-16-5	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	< 0.044 U
Aroclor 1242	53469-21-9	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	< 0.044 U
Aroclor 1248	12672-29-6	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	< 0.044 U
Aroclor 1254	11097-69-1	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	< 0.044 U
Aroclor 1260	11096-82-5	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	**0.063**
Aroclor 1262	37324-23-5	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	< 0.044 U
Aroclor 1268	11100-14-4	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	< 0.044 U
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		NS	NS	NS	NS	NS	NS	NS	NS	< 0.030 U	NS	NS	**0.063**
Fuel Oil (mg/Kg)																		
TPH (SGT-HEM)	TPH	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Percent Solids																		
Solids, percent	SOLID	NL	NL	NL	NL		**80**	**86**	**76**	**62**	**86**	**85**	**81**	**71**	**83**	**59**	**79**	**57**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the
quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the
associated numerical value represents its approximate concentration.

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-13 16-17 8/13/2013 D13(16-17)081313 3081318	D-13 DUP 16-17 8/13/2013 DUPLICATE_081313 3081318	D-13 20-22 8/13/2013 D13(20-22)081313 3081318	D-13 33-35 8/13/2013 D13(33-35)081313 3081318	D-13 39-40 8/13/2013 D13(39-40)081313 3081318	D-14 12-13 8/12/2013 D14(12-13)081213 3081318	D-14 16-17 8/12/2013 D14(16-17)081213 3081318	D-14 20-22 8/12/2013 D14(20-22)081213 3081318	D-14 33-35 8/12/2013 D14(33-35)081213 3081318	D-14 39-40 8/12/2013 D14(39-40)081213 3081318	D-15 9-11 8/12/2013 D15(9-11)081213 3081318	D-15 12-13 8/12/2013 D15(12-13)081213 3081318
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
BTEX mg/Kg																		
Benzene	71-43-2	0.06	4.8	44	89		< 0.0015 U	< 0.0011 U	< 0.0012 U	< 0.0017 U	< 0.0012 U	< 0.066 U	< 0.0013 U	< 0.0015 U	< 0.0016 U	< 0.0035 UJ	**0.098**	< 0.59 U
Ethylbenzene	100-41-4	1	41	390	780		< 0.0015 U	< 0.0011 U	< 0.0012 U	< 0.0017 U	< 0.0012 U	**0.77**	< 0.0013 U	< 0.0015 U	< 0.0016 U	< 0.0035 UJ	**0.35**	**5.0**
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		< 0.0015 U	< 0.0011 U	< 0.0012 U	< 0.0017 U	< 0.0012 U	< 0.13 U	< 0.0013 U	< 0.0015 U	< 0.0016 U	< 0.0035 UJ	< 0.12 UJ	< 1.2 UJ
o-Xylene	95-47-6	NL	NL	NL	NL		< 0.0015 U	< 0.0011 U	< 0.0012 U	< 0.0017 U	< 0.0012 U	< 0.13 U	< 0.0013 U	< 0.0015 U	< 0.0016 U	< 0.0035 UJ	< 0.12 UJ	< 1.2 UJ
Toluene	108-88-3	0.7	100	500	1000		< 0.0015 U	< 0.0011 U	< 0.0012 U	< 0.0017 U	< 0.0012 U	< 0.13 U	< 0.0013 U	< 0.0015 U	< 0.0016 U	< 0.0035 UJ	< 0.12 U	< 1.2 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		< 0.0015 U	< 0.0011 U	< 0.0012 U	< 0.0017 U	< 0.0012 U	< 0.13 U	< 0.0013 U	< 0.0015 U	< 0.0016 U	< 0.0035 UJ	< 0.12 UJ	< 1.2 UJ
Total BTEX		NL	NL	NL	NL		ND	ND	ND	ND	ND	**0.77**	ND	ND	ND	ND	**0.448**	**5.0**
VOC (mg/Kg)																		
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 UJ	< 1.2 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 UJ	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.0015 U	< 0.0011 U	< 0.0012 U	< 0.0017 U	< 0.0012 U	< 0.066 U	< 0.0013 U	< 0.0015 U	< 0.0016 U	< 0.0035 UJ	< 0.059 U	< 0.59 U
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	0.12	100	500	1000		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	**0.069 J**	< 0.0032 U	< 0.0070 UJ	< 0.12 UJ	< 1.2 UJ
2-Hexanone	591-78-6	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Acetone	67-64-1	0.05	100	500	1000		R	**0.049 J**	R	**0.054 J**	< 0.012 U	< 1.3 U	R	**0.30 J**	R	R	< 1.2 U	< 12 U
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Bromoform	75-25-2	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 UJ	< 1.2 UJ
Bromomethane	74-83-9	NL	NL	NL	NL		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	**0.0089**	**0.0074**	< 0.13 U	< 0.0025 U	< 0.0031 U	**0.0058**	**0.047 J**	< 0.12 U	< 1.2 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
Chlorobenzene	108-90-7	1.1	100	500	1000		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Chloroform	67-66-3	0.37	49	350	700		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 UJ	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Cyclohexane	110-82-7	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
Isopropylbenzene	98-82-8	NL	NL	NL	NL		< 0.0015 U	< 0.0011 U	< 0.0012 U	< 0.0017 U	< 0.0012 U	**0.2**	< 0.0013 U	< 0.0015 U	< 0.0016 U	< 0.0035 UJ	**0.19**	< 1.2 U
Methyl acetate	79-20-9	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.0015 UJ	< 0.0011 UJ	< 0.0012 UJ	< 0.0017 UJ	< 0.0012 UJ	< 0.066 U	< 0.0013 UJ	< 0.0015 UJ	< 0.0016 UJ	< 0.0035 UJ	< 0.059 U	< 0.59 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Methylene chloride	75-09-2	0.05	100	500	1000		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Styrene	100-42-5	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 UJ	< 1.2 UJ
Tetrachloroethene	127-18-4	1.3	19	150	300		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 UJ	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 UJ	< 1.2 UJ
Trichloroethene	79-01-6	0.47	21	200	400		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 0.0030 UJ	< 0.0021 UJ	< 0.0024 UJ	< 0.0033 UJ	< 0.0025 UJ	< 0.13 U	< 0.0025 UJ	< 0.0031 UJ	< 0.0032 UJ	< 0.0070 UJ	< 0.12 U	< 1.2 U
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 0.0030 U	< 0.0021 U	< 0.0024 U	< 0.0033 U	< 0.0025 U	< 0.13 U	< 0.0025 U	< 0.0031 U	< 0.0032 U	< 0.0070 UJ	< 0.12 U	< 1.2 U
Total VOC		NL	NL	NL	NL		ND	**0.049**	ND	**0.0629**	**0.0074**	**0.97**	ND	**0.369**	**0.0058**	**0.047**	**0.638**	**5**

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-13 16-17 8/13/2013 D13(16-17)081313 3081318	D-13 DUP 16-17 8/13/2013 DUPLICATE_081313 3081318	D-13 20-22 8/13/2013 D13(20-22)081313 3081318	D-13 33-35 8/13/2013 D13(33-35)081313 3081318	D-13 39-40 8/13/2013 D13(39-40)081313 3081318	D-14 12-13 8/12/2013 D14(12-13)081213 3081318	D-14 16-17 8/12/2013 D14(16-17)081213 3081318	D-14 20-22 8/12/2013 D14(20-22)081213 3081318	D-14 33-35 8/12/2013 D14(33-35)081213 3081318	D-14 39-40 8/12/2013 D14(39-40)081213 3081318	D-15 9-11 8/12/2013 D15(9-11)081213 3081318	D-15 12-13 8/12/2013 D15(12-13)081213 3081318
		Unrestricted Use	Restricted Residential	Commercial	Industrial													
PAH (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		**0.37**	**0.14 J**	**0.13**	< 0.054 U	< 0.042 U	**110**	**0.089**	**0.1**	**0.065**	< 0.098 UJ	**28**	**26**
Acenaphthene	83-32-9	20	100	500	1000		**0.77**	**0.51 J**	**0.32**	< 0.054 U	< 0.042 U	**500**	**0.35**	**0.43**	**0.37**	**0.32 J**	**70**	**62**
Acenaphthylene	208-96-8	100	100	500	1000		**0.098**	< 0.039 U	**0.057**	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	**3**	< 6.4 U
Anthracene	120-12-7	100	100	500	1000		**0.27**	**0.76 J**	**0.17**	< 0.054 U	< 0.042 U	**160**	**0.28**	**0.22**	**0.22**	**0.15 J**	**70**	**25**
Benzo(a)anthracene	56-55-3	1	1	5.6	11		**0.17**	**0.90 J**	**0.25**	< 0.054 U	< 0.042 U	**80**	**0.25**	**0.49**	**0.12**	**0.10 J**	**11**	**14**
Benzo(a)pyrene	50-32-8	1	1	1	1.1		**0.17**	**0.64 J**	**0.22**	< 0.054 U	< 0.042 U	**92**	**0.22**	**0.5**	**0.14**	**0.098 J**	**11**	**13**
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		**0.17**	**0.80 J**	**0.27**	< 0.054 U	< 0.042 U	**66**	**0.26**	**0.69**	**0.11**	< 0.098 UJ	**7.5**	**11**
Benzo(ghi)perylene	191-24-2	100	100	500	1000		**0.13**	**0.30 J**	**0.15**	< 0.054 U	< 0.042 U	**76**	**0.16**	**0.4**	**0.11**	< 0.098 UJ	**6.1**	**9.4**
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		**0.06**	**0.26 J**	**0.083**	< 0.054 U	< 0.042 U	< 54 U	**0.068**	**0.19**	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Chrysene	218-01-9	1	3.9	56	110		**0.14**	**0.84 J**	**0.25**	< 0.054 U	< 0.042 U	**68**	**0.27**	**0.52**	**0.11**	< 0.098 UJ	**17**	**13**
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		< 0.043 U	**0.10 J**	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	**0.069**	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Fluoranthene	206-44-0	100	100	500	1000		**0.58**	**1.8 J**	**0.5**	< 0.054 U	< 0.042 U	**250**	**0.57**	**0.69**	**0.29**	**0.23 J**	**25**	**38**
Fluorene	86-73-7	30	100	500	1000		**0.31**	**0.42 J**	**0.13**	< 0.054 U	< 0.042 U	**190**	**0.15**	**0.17**	**0.15**	**0.13 J**	**27**	**23**
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		**0.083**	**0.32 J**	**0.13**	< 0.054 U	< 0.042 U	< 54 U	**0.11**	**0.33**	**0.065**	< 0.098 UJ	**4.1**	< 6.4 U
Naphthalene	91-20-3	12	100	500	1000		**0.58**	**0.24 J**	**0.25**	< 0.013 U	**0.048**	**3200**	**0.52**	**1**	**0.61**	**0.90 J**	**200**	**300**
Phenanthrene	85-01-8	100	100	500	1000		**1.3**	**2.7 J**	**0.75**	< 0.054 U	< 0.042 U	**650**	**0.9**	**0.8**	**0.64**	**0.53 J**	**78**	**84**
Pyrene	129-00-0	100	100	500	1000		**0.78**	**1.8 J**	**0.65**	< 0.054 U	< 0.042 U	**380**	**0.82**	**1.1**	**0.49**	**0.48 J**	**48**	**57**
Total PAH		500	NL	NL	NL	500	**5.981**	**12.53**	**4.31**	ND	**0.048**	**5822**	**5.017**	**7.699**	**3.49**	**2.938**	**605.7**	**675.4**
SVOC (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	**59**	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	**11**	< 6.4 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 0.011 U	< 0.0098 U	< 0.010 U	< 0.013 U	< 0.011 U	< 13 U	< 0.012 U	< 0.013 U	< 0.014 U	< 0.025 UJ	< 0.66 U	< 1.6 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 0.011 U	< 0.0098 U	< 0.010 U	< 0.013 U	< 0.011 U	< 13 U	< 0.012 U	< 0.013 U	< 0.014 U	< 0.025 UJ	< 0.66 U	< 1.6 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 0.21 U	< 0.20 U	< 0.21 U	< 0.27 U	< 0.21 U	< 270 U	< 0.25 U	< 0.26 U	< 0.27 U	< 0.49 UJ	< 13 U	< 32 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 0.011 U	< 0.0098 U	< 0.010 U	< 0.013 U	< 0.011 U	< 13 U	< 0.012 U	< 0.013 U	< 0.014 U	< 0.025 UJ	< 0.66 U	< 1.6 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 0.21 U	< 0.20 U	< 0.21 U	< 0.27 U	< 0.21 U	< 270 U	< 0.25 U	< 0.26 U	< 0.27 U	< 0.49 UJ	< 13 U	< 32 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 0.020 U	< 0.019 U	< 0.020 U	< 0.025 U	< 0.020 U	< 25 U	< 0.023 U	< 0.025 U	< 0.026 U	< 0.046 UJ	< 1.2 U	< 3.0 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
4-Methylphenol	106-44-5	0.33	100	500	1000		< 0.011 U	< 0.0098 U	< 0.010 U	< 0.013 U	< 0.011 U	< 13 U	< 0.012 U	**0.068**	< 0.014 U	< 0.025 UJ	< 0.66 U	< 1.6 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 0.011 U	< 0.0098 U	< 0.010 U	< 0.013 U	< 0.011 U	< 13 U	< 0.012 U	< 0.013 U	< 0.014 U	< 0.025 UJ	< 0.66 U	< 1.6 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Carbazole	86-74-8	NL	NL	NL	NL		**0.06**	**0.29 J**	**0.054**	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Dibenzofuran	132-64-9	7	59	350	1000		**0.043**	**0.31 J**	**0.049**	< 0.013 U	< 0.011 U	< 13 U	**0.035**	< 0.013 U	< 0.014 U	< 0.025 UJ	< 0.66 U	< 1.6 U
Diethyl phthalate	84-66-2	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		**0.51 J**	**0.24 J**	**0.31 J**	**0.40 J**	**0.66 J**	< 54 U	**0.36 J**	**0.34 J**	**0.36 J**	**0.32 J**	< 2.6 U	< 6.4 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		< 0.021 U	< 0.020 U	< 0.021 U	< 0.027 U	< 0.021 U	< 27 U	< 0.025 U	< 0.027 U	< 0.027 U	< 0.049 UJ	< 1.3 U	< 3.2 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 UJ	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Isophorone	78-59-1	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 0.011 U	< 0.0098 U	< 0.010 U	< 0.013 U	< 0.011 U	< 13 U	< 0.012 U	< 0.013 U	< 0.014 U	< 0.025 UJ	< 0.66 U	< 1.6 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 0.21 U	< 0.20 U	< 0.21 U	< 0.27 U	< 0.21 U	< 270 U	< 0.25 U	< 0.26 U	< 0.27 U	< 0.49 UJ	< 13 U	< 32 U
Phenol	108-95-2	0.33	100	500	1000		< 0.043 U	< 0.039 U	< 0.042 U	< 0.054 U	< 0.042 U	< 54 U	< 0.049 U	< 0.053 U	< 0.055 U	< 0.098 UJ	< 2.6 U	< 6.4 U
Total SVOC		NL	NL	NL	NL		**6.594**	**13.37**	**4.723**	**0.4**	**0.708**	**5881**	**5.412**	**8.107**	**3.85**	**3.258**	**616.7**	**675.4**

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-13 16-17 8/13/2013 D13(16-17)081313 3081318	D-13 DUP 16-17 8/13/2013 DUPLICATE_081313 3081318	D-13 20-22 8/13/2013 D13(20-22)081313 3081318	D-13 33-35 8/13/2013 D13(33-35)081313 3081318	D-13 39-40 8/13/2013 D13(39-40)081313 3081318	D-14 12-13 8/12/2013 D14(12-13)081213 3081318	D-14 16-17 8/12/2013 D14(16-17)081213 3081318	D-14 20-22 8/12/2013 D14(20-22)081213 3081318	D-14 33-35 8/12/2013 D14(33-35)081213 3081318	D-14 39-40 8/12/2013 D14(39-40)081213 3081318	D-15 9-11 8/12/2013 D15(9-11)081213 3081318	D-15 12-13 8/12/2013 D15(12-13)081213 3081318
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
Metals (mg/Kg)																		
Arsenic	7440-38-2	13	16	16	16		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	7440-39-3	350	400	400	10000		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	2.5	4.3	9.3	60		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	7440-47-3	30	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	63	400	1000	3900		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	7439-97-6	0.18	0.81	2.8	5.7		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	7782-49-2	3.9	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	7440-22-4	2	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL		< 0.032 U	< 0.029 U	< 0.031 U	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Aroclor 1221	11104-28-2	NL	NL	NL	NL		< 0.032 U	< 0.029 U	< 0.031 U	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Aroclor 1232	11141-16-5	NL	NL	NL	NL		< 0.032 U	< 0.029 U	< 0.031 U	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Aroclor 1242	53469-21-9	NL	NL	NL	NL		< 0.032 U	< 0.029 U	< 0.031 U	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Aroclor 1248	12672-29-6	NL	NL	NL	NL		< 0.032 U	< 0.029 U	< 0.031 U	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Aroclor 1254	11097-69-1	NL	NL	NL	NL		< 0.032 U	< 0.029 U	< 0.031 U	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Aroclor 1260	11096-82-5	NL	NL	NL	NL		**0.57**	< 0.029 U	**0.32**	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Aroclor 1262	37324-23-5	NL	NL	NL	NL		< 0.032 U	< 0.029 U	< 0.031 U	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Aroclor 1268	11100-14-4	NL	NL	NL	NL		< 0.032 U	< 0.029 U	< 0.031 U	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		**0.57**	< 0.029 U	**0.32**	< 0.040 U	< 0.032 U	< 0.040 U	< 0.037 U	< 0.040 U	< 0.041 U	< 0.074 UJ	< 0.033 U	< 0.032 U
Fuel Oil (mg/Kg)																		
TPH (SGT-HEM)	TPH	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Percent Solids																		
Solids, percent	SOLID	NL	NL	NL	NL		**78**	**85**	**80**	**62**	**79**	**62**	**68**	**63**	**61**	**34**	**76**	**78**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-15 14-16 8/12/2013 D15(14-16)081213 3081318	D-15 27-29 8/12/2013 D15(27-29)081213 3081318	D-15 34-35 8/12/2013 D15(34-35)081213 3081318	MW-C1S 0-1 5/21/2013 MW-C1S (0-1)052113 3052105	MW-C1D 9-11 6/3/2013 MW-C1D (9-11)060313 3060427	MW-C1D DUP 9-11 6/3/2013 DUPLICATE 2_060313 3060427	MW-C1D 15-17 6/3/2013 MW-C1D (15-17)060313 3060427	MW-C1D 48-50 6/4/2013 MW-C1D(48-50)060413 3060532	MW-C2D 9-11 6/6/2013 MW-C2D(9-11)060613 3060713	MW-C2D 15-16 6/6/2013 MW-C2D(15-16)060613 3060713	MW-C2D 35-37 6/11/2013 MW-C2D(35-37)061013 3061123	MW-C2D 41-43 6/11/2013 MW-C2D(41-43)061013 3061123
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
BTEX mg/Kg																		
Benzene	71-43-2	0.06	4.8	44	89		< 0.0012 U	< 0.63 U	< 0.0015 U	< 0.0013 U	< 0.0015 U	< 0.0013 U	< 0.0012 U	< 0.0012 U	< 0.0011 U	< 0.0013 U	< 0.0025 UJ	< 0.0017 U
Ethylbenzene	100-41-4	1	41	390	780		< 0.0012 U	**7.6**	< 0.0015 U	< 0.0013 U	< 0.0015 U	< 0.0013 U	< 0.0012 U	< 0.0012 U	< 0.0011 U	< 0.0013 U	< 0.0025 UJ	< 0.0017 U
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		< 0.0012 U	**2.6 J**	< 0.0015 U	< 0.0013 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0012 U	< 0.0023 U	< 0.0026 U	< 0.0025 UJ	< 0.0017 U
o-Xylene	95-47-6	NL	NL	NL	NL		< 0.0012 UJ	< 1.3 UJ	< 0.0015 UJ	< 0.0013 U	< 0.0015 U	< 0.0013 U	< 0.0012 U	< 0.0012 U	< 0.0011 U	< 0.0013 U	< 0.0025 UJ	< 0.0017 U
Toluene	108-88-3	0.7	100	500	1000		< 0.0012 U	< 1.3 U	< 0.0015 U	< 0.0013 U	< 0.0015 U	< 0.0013 U	< 0.0012 U	< 0.0012 U	< 0.0011 U	< 0.0013 U	< 0.0025 UJ	< 0.0017 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		< 0.0012 UJ	**2.6 J**	< 0.0015 UJ	< 0.0013 U	< 0.0015 U	< 0.0013 U	< 0.0012 U	< 0.0012 U	< 0.0011 U	< 0.0013 U	< 0.0025 UJ	< 0.0017 U
Total BTEX		NL	NL	NL	NL		ND	**10.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOC (mg/Kg)																		
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 0.0024 U	< 1.3 UJ	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0025 UJ	< 0.0017 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 0.0024 UJ	< 1.3 U	< 0.0030 UJ	< 0.0025 U	< 0.0029 UJ	< 0.0027 UJ	< 0.0024 UJ	< 0.0023 U	< 0.0023 UJ	< 0.0026 UJ	< 0.0050 UJ	< 0.0034 UJ
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 0.0024 UJ	< 1.3 U	< 0.0030 UJ	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 UJ	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 UJ	< 0.0026 UJ	< 0.0034 UJ	< 0.0023 U
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 UJ	< 0.0027 UJ	< 0.0024 UJ	< 0.0023 U	< 0.0023 UJ	< 0.0026 UJ	< 0.0025 UJ	< 0.0017 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 0.0024 UJ	< 1.3 U	< 0.0030 UJ	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 UJ	< 0.0026 UJ	< 0.0050 UJ	< 0.0034 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.0024 U	< 0.63 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0012 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	0.12	100	500	1000		< 0.0024 U	< 1.3 UJ	< 0.0030 U	< 0.0025 UJ	< 0.0029 U	< 0.0027 U	< 0.0024 U	R	< 0.0023 U	< 0.0026 U	R	R
2-Hexanone	591-78-6	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 UJ	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 UJ	< 0.0023 UJ	< 0.0026 UJ	< 0.0050 UJ	< 0.0034 U
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 UJ	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 UJ	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Acetone	67-64-1	0.05	100	500	1000		R	< 13 U	**0.068 J**	R	R	R	R	R	R	R	R	R
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Bromoform	75-25-2	NL	NL	NL	NL		< 0.0024 UJ	< 1.3 UJ	< 0.0030 UJ	< 0.0025 U	< 0.0029 UJ	< 0.0027 UJ	< 0.0024 UJ	< 0.0023 U	< 0.0023 UJ	< 0.0026 UJ	< 0.0050 UJ	< 0.0034 U
Bromomethane	74-83-9	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	**0.022**	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	**0.026 J**	< 0.0034 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Chlorobenzene	108-90-7	1.1	100	500	1000		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Chloroform	67-66-3	0.37	49	350	700		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 UJ	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Cyclohexane	110-82-7	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 UJ	< 0.0026 UJ	< 0.0050 UJ	< 0.0034 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 UJ	< 0.0027 UJ	< 0.0024 UJ	< 0.0023 U	< 0.0023 UJ	< 0.0026 UJ	< 0.0050 UJ	< 0.0034 U
Isopropylbenzene	98-82-8	NL	NL	NL	NL		< 0.0012 U	< 1.3 U	< 0.0015 U	< 0.0013 U	< 0.0015 U	< 0.0013 U	< 0.0012 U	< 0.0012 U	< 0.0011 U	< 0.0013 U	< 0.0025 UJ	< 0.0017 U
Methyl acetate	79-20-9	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 UJ	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.0012 U	< 0.63 U	< 0.0015 U	< 0.0013 U	< 0.0015 U	< 0.0013 U	< 0.0012 U	< 0.0012 U	< 0.0011 U	< 0.0013 U	< 0.0025 UJ	< 0.0017 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Methylene chloride	75-09-2	0.05	100	500	1000		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Styrene	100-42-5	NL	NL	NL	NL		< 0.0024 U	< 1.3 UJ	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Tetrachloroethene	127-18-4	1.3	19	150	300		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 0.0024 U	< 1.3 UJ	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Trichloroethene	79-01-6	0.47	21	200	400		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 0.0024 U	< 1.3 U	< 0.0030 U	R	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 0.0024 U	< 1.3 U	< 0.0030 U	< 0.0025 U	< 0.0029 U	< 0.0027 U	< 0.0024 U	< 0.0023 U	< 0.0023 U	< 0.0026 U	< 0.0050 UJ	< 0.0034 U
Total VOC		NL	NL	NL	NL		ND	**10.2**	**0.09**	ND	ND	ND	ND	ND	ND	ND	**0.026**	ND

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-15 14-16 8/12/2013 D15(14-16)081213 3081318	D-15 27-29 8/12/2013 D15(27-29)081213 3081318	D-15 34-35 8/12/2013 D15(34-35)081213 3081318	MW-C1S 0-1 5/21/2013 MW-C1S (0-1)052113 3052105	MW-C1D 9-11 6/3/2013 MW-C1D (9-11)060313 3060427	MW-C1D DUP 9-11 6/3/2013 DUPLICATE 2_060313 3060427	MW-C1D 15-17 6/3/2013 MW-C1D (15-17)060313 3060427	MW-C1D 48-50 6/4/2013 MW-C1D(48-50)060413 3060532	MW-C2D 9-11 6/6/2013 MW-C2D(9-11)060613 3060713	MW-C2D 15-16 6/6/2013 MW-C2D(15-16)060613 3060713	MW-C2D 35-37 6/11/2013 MW-C2D(35-37)061013 3061123	MW-C2D 41-43 6/11/2013 MW-C2D(41-43)061013 3061123
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
PAH (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		**0.041**	**18**	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Acenaphthene	83-32-9	20	100	500	1000		**0.13**	**44**	**0.072**	< 0.036 U	**0.12**	< 0.10 U	< 0.042 U	< 0.041 U	**0.92**	**0.17**	< 0.071 UJ	< 0.048 U
Acenaphthylene	208-96-8	100	100	500	1000		< 0.041 U	**2**	< 0.055 U	**0.10**	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Anthracene	120-12-7	100	100	500	1000		**0.089**	**18**	< 0.055 U	**0.26**	**0.31**	**0.25**	< 0.042 U	< 0.041 U	**1.5**	**0.17**	< 0.071 UJ	< 0.048 U
Benzo(a)anthracene	56-55-3	1	1	5.6	11		**0.15**	**8.7**	< 0.055 U	**0.27**	**0.90**	**0.78**	< 0.042 U	< 0.041 U	**4.3**	**0.47**	< 0.071 UJ	< 0.048 U
Benzo(a)pyrene	50-32-8	1	1	1	1.1		**0.12**	**9.8**	< 0.055 U	**0.30**	**0.78**	**0.70**	< 0.042 U	< 0.041 U	**3.3**	**0.37**	< 0.071 UJ	< 0.048 U
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		**0.15**	**6.8**	< 0.055 U	**0.30**	**0.99**	**0.84**	< 0.042 U	< 0.041 U	**4.0**	**0.50**	< 0.071 UJ	< 0.048 U
Benzo(ghi)perylene	191-24-2	100	100	500	1000		**0.088**	**6.2**	< 0.055 U	**0.25**	**0.53**	**0.51**	< 0.042 U	< 0.041 U	**2.2**	**0.30**	< 0.071 UJ	< 0.048 U
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		**0.049**	**2.1**	< 0.055 U	**0.089**	**0.28**	**0.30**	< 0.042 U	< 0.041 U	**1.2**	**0.17**	< 0.071 UJ	< 0.048 U
Chrysene	218-01-9	1	3.9	56	110		**0.14**	**7.4**	< 0.055 U	**0.28**	**0.81**	**0.75**	< 0.042 U	< 0.041 U	**3.9**	**0.43**	< 0.071 UJ	< 0.048 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		< 0.041 U	< 1.9 U	< 0.055 U	**0.041**	**0.15**	**0.15**	< 0.042 U	< 0.041 U	**0.61**	**0.079**	< 0.071 UJ	< 0.048 U
Fluoranthene	206-44-0	100	100	500	1000		**0.3**	**21**	< 0.055 U	**0.52**	**1.6**	**1.5**	< 0.042 U	< 0.041 U	**8.4**	**0.88**	**0.099 J**	< 0.048 U
Fluorene	86-73-7	30	100	500	1000		**0.074**	**15**	< 0.055 U	< 0.036 U	**0.13**	< 0.10 U	< 0.042 U	< 0.041 U	**0.64**	**0.083**	< 0.071 UJ	< 0.048 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		**0.068**	**3.7**	< 0.055 U	**0.16**	**0.49**	**0.43**	< 0.042 U	< 0.041 U	**1.8**	**0.26**	< 0.071 UJ	< 0.048 U
Naphthalene	91-20-3	12	100	500	1000		**0.25**	**120**	**0.3**	**0.027**	**0.054 J**	< 0.026 UJ	< 0.011 U	< 0.010 U	**0.93**	**0.13**	< 0.018 UJ	< 0.012 U
Phenanthrene	85-01-8	100	100	500	1000		**0.41**	**59**	**0.099**	**0.28**	**1.4**	**1.0**	< 0.042 U	< 0.041 U	**6.3**	**0.74**	**0.11 J**	< 0.048 U
Pyrene	129-00-0	100	100	500	1000		**0.42**	**40**	**0.09**	**0.84**	**1.6**	**1.3**	< 0.042 U	< 0.041 U	**8.0**	**0.99**	**0.11 J**	< 0.048 U
Total PAH		500	NL	NL	NL	500	**2.479**	**381.7**	**0.561**	**3.717**	**10.144**	**8.51**	ND	ND	**48**	**5.742**	**0.319**	ND
SVOC (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		< 0.041 U	**12**	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 0.010 U	< 0.48 U	< 0.014 U	< 0.0091 U	< 0.013 U	< 0.026 U	< 0.011 U	< 0.010 U	< 0.063 U	< 0.012 U	< 0.018 UJ	< 0.012 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 0.010 U	< 0.48 U	< 0.014 U	< 0.0091 U	< 0.013 U	< 0.026 U	< 0.011 U	< 0.010 U	< 0.063 U	< 0.012 U	< 0.018 UJ	< 0.012 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 0.20 U	< 9.5 U	< 0.27 U	< 0.18 U	< 0.25 U	< 0.51 U	< 0.21 U	< 0.21 U	< 1.3 U	< 0.23 U	< 0.35 UJ	< 0.24 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 0.010 U	< 0.48 U	< 0.014 U	< 0.0091 U	< 0.013 U	< 0.026 U	< 0.011 U	< 0.010 U	< 0.063 U	< 0.012 U	< 0.018 UJ	< 0.012 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 0.20 U	< 9.5 U	< 0.27 U	< 0.18 U	< 0.25 U	< 0.51 U	< 0.21 U	< 0.21 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.24 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 0.019 U	< 0.90 U	< 0.026 U	< 0.017 U	< 0.024 U	< 0.049 U	< 0.020 U	< 0.020 U	< 0.12 U	< 0.022 U	< 0.034 UJ	< 0.023 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
4-Methylphenol	106-44-5	0.33	100	500	1000		**0.35**	< 0.48 U	< 0.014 U	< 0.0091 U	< 0.013 U	< 0.026 U	< 0.011 U	< 0.010 U	< 0.063 U	**0.025**	< 0.018 UJ	< 0.012 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 0.010 U	< 0.48 U	< 0.014 U	< 0.0091 U	< 0.013 U	< 0.026 U	< 0.011 U	< 0.010 U	< 0.063 U	< 0.012 U	< 0.018 UJ	< 0.012 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Carbazole	86-74-8	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	**0.12**	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Dibenzofuran	132-64-9	7	59	350	1000		**0.026**	< 0.48 U	< 0.014 U	< 0.0091 U	**0.083**	**0.054**	< 0.011 U	< 0.010 U	**0.23**	**0.033**	< 0.018 UJ	< 0.012 U
Diethyl phthalate	84-66-2	NL	NL	NL	NL		**0.27**	< 1.9 U	**0.3**	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		< 0.020 U	< 0.96 U	< 0.027 U	< 0.018 U	< 0.025 U	< 0.052 U	< 0.021 U	< 0.021 U	< 0.13 U	< 0.023 U	< 0.036 UJ	< 0.024 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 UJ	< 0.25 UJ	< 0.51 UJ	< 0.21 UJ	< 0.21 UJ	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.24 U
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Isophorone	78-59-1	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 0.010 U	< 0.48 U	< 0.014 U	< 0.0091 U	< 0.013 U	< 0.026 U	< 0.011 U	< 0.010 U	< 0.063 U	< 0.012 U	< 0.018 UJ	< 0.012 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 0.041 U	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 0.20 U	< 9.5 U	< 0.27 U	< 0.18 U	< 0.25 U	< 0.51 U	< 0.21 U	< 0.21 U	< 0.43 U	< 0.078 U	< 0.12 UJ	< 0.24 U
Phenol	108-95-2	0.33	100	500	1000		**0.06**	< 1.9 U	< 0.055 U	< 0.036 U	< 0.051 U	< 0.10 U	< 0.042 U	< 0.041 U	< 0.25 U	< 0.046 U	< 0.071 UJ	< 0.048 U
Total SVOC		NL	NL	NL	NL		**3.185**	**393.7**	**0.861**	**3.717**	**10.347**	**8.564**	ND	ND	**48.23**	**5.8**	**0.319**	ND

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	D-15 14-16 8/12/2013 D15(14-16)081213 3081318	D-15 27-29 8/12/2013 D15(27-29)081213 3081318	D-15 34-35 8/12/2013 D15(34-35)081213 3081318	MW-C1S 0-1 5/21/2013 MW-C1S (0-1)052113 3052105	MW-C1D 9-11 6/3/2013 MW-C1D (9-11)060313 3060427	MW-C1D DUP 9-11 6/3/2013 DUPLICATE 2_060313 3060427	MW-C1D 15-17 6/3/2013 MW-C1D (15-17)060313 3060427	MW-C1D 48-50 6/4/2013 MW-C1D(48-50)060413 3060532	MW-C2D 9-11 6/6/2013 MW-C2D(9-11)060613 3060713	MW-C2D 15-16 6/6/2013 MW-C2D(15-16)060613 3060713	MW-C2D 35-37 6/11/2013 MW-C2D(35-37)061013 3061123	MW-C2D 41-43 6/11/2013 MW-C2D(41-43)061013 3061123
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
Metals (mg/Kg)																		
Arsenic	7440-38-2	13	16	16	16		NS	NS	NS	**3.3**	NS	NS	NS	NS	NS	NS	NS	NS
Barium	7440-39-3	350	400	400	10000		NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	2.5	4.3	9.3	60		NS	NS	NS	< 0.65 U	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	7440-47-3	30	180	1500	6800		NS	NS	NS	**5.6**	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	63	400	1000	3900		NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	7439-97-6	0.18	0.81	2.8	5.7		NS	NS	NS	< 0.091 U	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	7782-49-2	3.9	180	1500	6800		NS	NS	NS	< 2.0 U	NS	NS	NS	NS	NS	NS	NS	NS
Silver	7440-22-4	2	180	1500	6800		NS	NS	NS	< 1.6 U	NS	NS	NS	NS	NS	NS	NS	NS
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1221	11104-28-2	NL	NL	NL	NL		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1232	11141-16-5	NL	NL	NL	NL		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1242	53469-21-9	NL	NL	NL	NL		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	12672-29-6	NL	NL	NL	NL		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1254	11097-69-1	NL	NL	NL	NL		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	11096-82-5	NL	NL	NL	NL		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1262	37324-23-5	NL	NL	NL	NL		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1268	11100-14-4	NL	NL	NL	NL		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		< 0.030 U	< 0.036 U	< 0.041 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fuel Oil (mg/Kg)																		
TPH (SGT-HEM)	TPH	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Percent Solids																		
Solids, percent	SOLID	NL	NL	NL	NL		**82**	**70**	**61**	**92**	**66**	**65**	**79**	**81**	**79**	**72**	**47**	**70**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C3D 9-11 6/29/2013 MW-C3D(9-11)062913 3062901	MW-C3D 14-16 6/29/2013 MW-C3D(14-16)062913 3062901	MW-C3D 29-31 6/29/2013 MW-C3D(29-31)062913 3062901	MW-C4S 0.5-1 5/20/2013 MW-C4S (0.5-1)052013 3052105	MW-C4D 9-11 6/12/2013 MW-C4D(9-11)061213 3061322	MW-C4D 14-16 6/12/2013 MW-C4D(14-16)061213 3061322	MW-C4D DUP 14-16 6/12/2013 DUPLICATE 3_061213 3061322	MW-C4D 48-50 6/12/2013 MW-C4D(48-50)061213 3061322	MW-C5D 9-11 7/23/2013 MW-C5D(9-11)07232013 3072413	MW-C5D 14-16 7/23/2013 MW-C5D(14-16)0723201 3072413	MW-C5D 47-49 7/24/2013 MW-C5D(47-49)072413 3072413	MW-C6D 9-11 6/26/2013 MW-C6D(9-11)062613 3062710
		Unrestricted Use	Restricted Use Restricted Residential	Restricted Use Commercial	Restricted Use Industrial													
BTEX mg/Kg																		
Benzene	71-43-2	0.06	4.8	44	89		< 0.054 U	< 0.56 U	< 0.0016 U	**0.11**	**0.0084**	< 0.0010 U	< 0.0011 U	< 0.0011 U	< 1.3 U	**0.21**	< 0.0010 U	< 0.86 U
Ethylbenzene	100-41-4	1	41	390	780		< 0.11 U	< 1.1 U	< 0.0016 U	**0.15**	**0.011**	< 0.0010 U	< 0.0011 U	< 0.0011 U	**230**	**28**	< 0.0010 U	**6.6**
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0016 U	**0.32**	**0.0033**	< 0.0010 U	< 0.0011 U	< 0.0011 U	**87**	**9.7**	< 0.0010 U	< 1.7 U
o-Xylene	95-47-6	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0016 U	**0.15**	**0.0027**	< 0.0010 U	< 0.0011 U	< 0.0011 U	**36**	**3.8**	< 0.0010 U	< 1.7 U
Toluene	108-88-3	0.7	100	500	1000		< 0.11 U	< 1.1 U	< 0.0016 U	**0.29**	**0.003**	< 0.0010 U	< 0.0011 U	< 0.0011 U	< 2.5 U	< 0.26 U	< 0.0010 U	< 1.7 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		< 0.11 U	< 1.1 U	< 0.0016 U	**0.47**	**0.006**	< 0.0010 U	< 0.0011 U	< 0.0011 U	**123**	**13.5**	< 0.0010 U	< 1.7 U
Total BTEX		NL	NL	NL	NL		ND	ND	ND	**1.02**	**0.0284**	ND	ND	ND	**353**	**41.71**	ND	**6.6**
VOC (mg/Kg)																		
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0011 U	< 0.0010 U	< 0.0011 U	< 0.0011 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 UJ	< 1.7 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.11 U	< 1.1 U	< 0.0032 UJ	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 0.99 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 UJ	< 1.7 UJ
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 UJ	< 1.7 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 UJ	< 0.12 U	< 0.0015 U	< 0.0014 U	< 0.0015 U	< 0.0016 U	< 2.5 UJ	< 0.26 UJ	< 0.0020 U	< 1.7 UJ
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0011 U	< 0.0010 U	< 0.0011 U	< 0.0011 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 UJ	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 UJ	< 1.7 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.054 U	< 0.56 U	< 0.0032 UJ	< 0.060 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 1.3 U	< 0.13 U	< 0.0010 U	< 0.86 U
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 UJ	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	0.12	100	500	1000		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	R	R	R	R	< 2.5 U	< 0.26 U	R	< 1.7 U
2-Hexanone	591-78-6	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 UJ	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 UJ
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 UJ	< 0.26 UJ	< 0.0020 U	< 1.7 U
Acetone	67-64-1	0.05	100	500	1000		< 1.1 U	< 11 U	R	< 1.2 U	R	R	R	R	< 25 U	< 2.6 U	R	< 17 U
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 UJ	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 UJ	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Bromoform	75-25-2	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 UJ	< 0.26 UJ	< 0.0020 U	< 1.7 U
Bromomethane	74-83-9	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 UJ	< 1.7 U
Chlorobenzene	108-90-7	1.1	100	500	1000		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Chloroform	67-66-3	0.37	49	350	700		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 UJ
Cyclohexane	110-82-7	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	**3.5**	**0.46**	< 0.0020 U	< 1.7 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 UJ
Isopropylbenzene	98-82-8	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0016 U	< 0.12 U	**0.0052**	< 0.0010 U	< 0.0011 U	< 0.0011 U	**32**	**4.6**	< 0.0010 U	**1.9**
Methyl acetate	79-20-9	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.054 U	< 0.56 U	< 0.0016 U	< 0.060 U	< 0.0011 U	< 0.0010 U	< 0.0011 U	< 0.0011 U	< 1.3 U	< 0.13 U	< 0.0010 U	< 0.86 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	**240**	**23**	< 0.0020 U	< 1.7 U
Methylene chloride	75-09-2	0.05	100	500	1000		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Styrene	100-42-5	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Tetrachloroethene	127-18-4	1.3	19	150	300		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 UJ
Trichloroethene	79-01-6	0.47	21	200	400		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 UJ	< 1.7 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 0.11 U	< 1.1 U	< 0.0032 UJ	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 0.11 U	< 1.1 U	< 0.0032 U	< 0.12 U	< 0.0022 U	< 0.0021 U	< 0.0022 U	< 0.0023 U	< 2.5 U	< 0.26 U	< 0.0020 U	< 1.7 U
Total VOC		NL	NL	NL	NL		ND	ND	ND	**1.02**	**0.0336**	ND	ND	ND	**628.5**	**69.77**	ND	**8.5**

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C3D 9-11 6/29/2013 MW-C3D(9-11)062913 3062901	MW-C3D 14-16 6/29/2013 MW-C3D(14-16)062913 3062901	MW-C3D 29-31 6/29/2013 MW-C3D(29-31)062913 3062901	MW-C4S 0.5-1 5/20/2013 MW-C4S (0.5-1)052013 3052105	MW-C4D 9-11 6/12/2013 MW-C4D(9-11)061213 3061322	MW-C4D 14-16 6/12/2013 MW-C4D(14-16)061213 3061322	MW-C4D DUP 14-16 6/12/2013 DUPLICATE 3_061213 3061322	MW-C4D 48-50 6/12/2013 MW-C4D(48-50)061213 3061322	MW-C5D 9-11 7/23/2013 MW-C5D(9-11)07232013 3072413	MW-C5D 14-16 7/23/2013 MW-C5D(14-16)0723201 3072413	MW-C5D 47-49 7/24/2013 MW-C5D(47-49)072413 3072413	MW-C6D 9-11 6/26/2013 MW-C6D(9-11)062613 3062710
		Unrestricted Use	Restricted Residential	Commercial	Industrial													
PAH (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		**21**	**6.1**	< 0.054 U	**2.8**	**1.3**	**0.078**	< 0.040 U	< 0.042 U	**190**	**96**	< 0.040 U	**69**
Acenaphthene	83-32-9	20	100	500	1000		**10**	< 2.1 U	< 0.054 U	**2.8**	**9.2**	**0.58 J**	**0.13 J**	< 0.042 U	**360**	**190**	< 0.040 U	**160**
Acenaphthylene	208-96-8	100	100	500	1000		**38**	**13**	< 0.054 U	**4.5**	**0.26**	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Anthracene	120-12-7	100	100	500	1000		**8.3**	**2.4**	< 0.054 U	**8.4**	**1.5**	< 0.041 U	< 0.040 U	< 0.042 U	**73**	**32**	< 0.040 U	**86**
Benzo(a)anthracene	56-55-3	1	1	5.6	11		< 6.0 U	< 2.1 U	< 0.054 U	**16**	**1.8**	**0.057**	< 0.040 U	< 0.042 U	**50**	< 22 U	< 0.040 U	**52**
Benzo(a)pyrene	50-32-8	1	1	1	1.1		**6.8**	< 2.1 U	< 0.054 U	**13**	**1.3**	**0.055**	< 0.040 U	< 0.042 U	**45**	< 22 U	< 0.040 U	**62**
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		< 6.0 U	< 2.1 U	< 0.054 U	**17**	**1.6**	**0.063**	< 0.040 U	< 0.042 U	**39**	< 22 U	< 0.040 U	**39**
Benzo(ghi)perylene	191-24-2	100	100	500	1000		< 6.0 U	< 2.1 U	< 0.054 U	**6.5**	**0.75**	**0.070**	< 0.040 U	< 0.042 U	**24**	< 22 U	< 0.040 U	**46**
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		< 6.0 U	< 2.1 U	< 0.054 U	**6.3**	**0.53**	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	**13**
Chrysene	218-01-9	1	3.9	56	110		< 6.0 U	< 2.1 U	< 0.054 U	**13**	**1.4**	**0.053**	< 0.040 U	< 0.042 U	**38**	< 22 U	< 0.040 U	**44**
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		< 6.0 U	< 2.1 U	< 0.054 U	**3.1**	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Fluoranthene	206-44-0	100	100	500	1000		**18**	**6.0**	< 0.054 U	**37**	**4.0**	**0.11 J**	< 0.040 UJ	< 0.042 U	**130**	**47**	< 0.040 U	**98**
Fluorene	86-73-7	30	100	500	1000		**15**	**4.8**	< 0.054 U	**8.6**	**2.4 J**	**0.10 J**	< 0.040 UJ	< 0.042 U	**100**	**47**	< 0.040 U	**52**
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		< 6.0 U	< 2.1 U	< 0.054 U	**6.7**	**0.66**	**0.044**	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	**25**
Naphthalene	91-20-3	12	100	500	1000		**410**	**100**	**0.76**	**7.4**	**2.4 J**	**0.15 J**	< 0.010 UJ	< 0.010 U	**2000**	**1500**	**0.42**	**560**
Phenanthrene	85-01-8	100	100	500	1000		**46**	**16**	**0.055**	**27**	**5.1**	**0.15 J**	< 0.040 UJ	< 0.042 U	**300**	**130**	< 0.040 U	**170**
Pyrene	129-00-0	100	100	500	1000		**32**	**9.6**	< 0.054 U	**32**	**3.8 J**	**0.13 J**	< 0.040 UJ	< 0.042 U	**180**	**83**	< 0.040 U	**200**
Total PAH		500	NL	NL	NL	500	**605.1**	**157.9**	**0.815**	**212.1**	**38**	**1.64**	**0.13**	ND	**3529**	**2125**	**0.42**	**1676**
SVOC (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		**16**	**4.9**	< 0.054 U	**0.92**	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	**100**	**52**	< 0.040 U	< 11 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 1.5 U	< 0.52 U	< 0.013 U	< 0.14 U	< 0.059 U	< 0.010 U	< 0.010 U	< 0.010 U	< 5.2 U	< 5.6 U	< 0.0099 U	< 2.7 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 1.5 U	< 0.52 U	< 0.013 U	< 0.14 U	< 0.059 U	< 0.010 U	< 0.010 U	< 0.010 U	< 5.2 U	< 5.6 U	< 0.0099 U	< 2.7 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 30 U	< 10 U	< 0.27 U	< 2.7 U	< 1.2 U	< 0.20 U	< 0.20 U	< 0.21 U	< 100 U	< 110 U	< 0.20 U	< 55 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 1.5 U	< 0.52 U	< 0.013 U	< 0.14 U	< 0.059 U	< 0.010 U	< 0.010 U	< 0.010 U	< 5.2 U	< 5.6 U	< 0.0099 U	< 2.7 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 2.7 U	< 0.24 U	< 0.20 U	< 0.20 U	< 0.21 U	< 100 U	< 110 U	< 0.20 U	< 11 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 2.8 U	< 0.99 U	< 0.025 U	< 0.26 U	< 0.11 U	< 0.019 U	< 0.019 U	< 0.020 U	< 9.9 U	< 11 U	< 0.019 U	< 5.2 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
4-Methylphenol	106-44-5	0.33	100	500	1000		< 1.5 U	< 0.52 U	< 0.013 U	< 0.14 U	< 0.059 U	< 0.010 U	< 0.010 U	< 0.010 U	< 5.2 U	< 5.6 U	< 0.0099 U	< 2.7 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 1.5 U	< 0.52 U	< 0.013 U	< 0.14 U	< 0.059 U	< 0.010 U	< 0.010 U	< 0.010 U	< 5.2 U	< 5.6 U	< 0.0099 U	< 2.7 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.048 U	< 11 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Carbazole	86-74-8	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	**3.7**	**0.35**	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Dibenzofuran	132-64-9	7	59	350	1000		< 1.5 U	< 0.52 U	< 0.013 U	**5.4**	**1.4**	**0.041 J**	< 0.010 UJ	< 0.010 U	< 5.2 U	< 5.6 U	< 0.0099 U	< 2.7 U
Diethyl phthalate	84-66-2	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	**0.15 J**	< 11 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		< 3.0 U	< 1.0 U	< 0.027 U	< 0.27 U	< 0.12 U	< 0.020 U	< 0.020 U	< 0.021 U	< 10 U	< 11 U	< 0.020 U	< 5.5 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 30 U	< 10 U	< 0.27 U	< 0.54 UJ	< 0.24 U	< 0.20 U	< 0.20 U	< 0.21 U	< 100 UJ	< 110 UJ	< 0.20 U	< 11 U
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Isophorone	78-59-1	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 1.5 U	< 0.52 U	< 0.013 U	< 0.14 U	< 0.059 U	< 0.010 U	< 0.010 U	< 0.010 U	< 5.2 U	< 5.6 U	< 0.0099 U	< 2.7 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 30 U	< 10 U	< 0.27 U	< 2.7 U	< 0.40 U	< 0.20 U	< 0.20 U	< 0.21 U	< 100 U	< 110 U	< 0.20 U	< 55 U
Phenol	108-95-2	0.33	100	500	1000		< 6.0 U	< 2.1 U	< 0.054 U	< 0.54 U	< 0.24 U	< 0.041 U	< 0.040 U	< 0.042 U	< 21 U	< 22 U	< 0.040 U	< 11 U
Total SVOC		NL	NL	NL	NL		**621.1**	**162.8**	**0.815**	**222.12**	**39.75**	**1.681**	**0.13**	ND	**3629**	**2177**	**0.57**	**1676**

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C3D 9-11 6/29/2013 MW-C3D(9-11)062913 3062901	MW-C3D 14-16 6/29/2013 MW-C3D(14-16)062913 3062901	MW-C3D 29-31 6/29/2013 MW-C3D(29-31)062913 3062901	MW-C4S 0.5-1 5/20/2013 MW-C4S (0.5-1)052013 3052105	MW-C4D 9-11 6/12/2013 MW-C4D(9-11)061213 3061322	MW-C4D 14-16 6/12/2013 MW-C4D(14-16)061213 3061322	MW-C4D DUP 14-16 6/12/2013 DUPLICATE 3_061213 3061322	MW-C4D 48-50 6/12/2013 MW-C4D(48-50)061213 3061322	MW-C5D 9-11 7/23/2013 MW-C5D(9-11)07232013 3072413	MW-C5D 14-16 7/23/2013 MW-C5D(14-16)0723201 3072413	MW-C5D 47-49 7/24/2013 MW-C5D(47-49)072413 3072413	MW-C6D 9-11 6/26/2013 MW-C6D(9-11)062613 3062710
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
Metals (mg/Kg)																		
Arsenic	7440-38-2	13	16	16	16		NS	NS	NS	**6.5**	NS	NS	NS	NS	NS	NS	NS	NS
Barium	7440-39-3	350	400	400	10000		NS	NS	NS	**74**	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	2.5	4.3	9.3	60		NS	NS	NS	**1.0**	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	7440-47-3	30	180	1500	6800		NS	NS	NS	**8.3**	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	63	400	1000	3900		NS	NS	NS	**720**	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	7439-97-6	0.18	0.81	2.8	5.7		NS	NS	NS	**0.11**	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	7782-49-2	3.9	180	1500	6800		NS	NS	NS	< 2.0 U	NS	NS	NS	NS	NS	NS	NS	NS
Silver	7440-22-4	2	180	1500	6800		NS	NS	NS	< 1.6 U	NS	NS	NS	NS	NS	NS	NS	NS
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL		NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.031 U	< 0.031 U	< 0.033 U	< 0.030 U	< 0.041 U
Aroclor 1221	11104-28-2	NL	NL	NL	NL		NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.031 U	< 0.031 U	< 0.033 U	< 0.030 U	< 0.041 U
Aroclor 1232	11141-16-5	NL	NL	NL	NL		NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.031 U	< 0.031 U	< 0.033 U	< 0.030 U	< 0.041 U
Aroclor 1242	53469-21-9	NL	NL	NL	NL		NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.031 U	< 0.031 U	< 0.033 U	< 0.030 U	< 0.041 U
Aroclor 1248	12672-29-6	NL	NL	NL	NL		NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.031 U	< 0.031 U	< 0.033 U	< 0.030 U	< 0.041 U
Aroclor 1254	11097-69-1	NL	NL	NL	NL		NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.031 U	< 0.031 U	< 0.033 U	< 0.030 U	< 0.041 U
Aroclor 1260	11096-82-5	NL	NL	NL	NL		NS	NS	NS	NS	**0.13**	< 0.030 U	< 0.030 U	< 0.031 U	**0.79 J**	**1.3 J**	< 0.030 U	< 0.041 U
Aroclor 1262	37324-23-5	NL	NL	NL	NL		NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.031 U	< 0.031 U	< 0.033 U	< 0.030 U	< 0.041 U
Aroclor 1268	11100-14-4	NL	NL	NL	NL		NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.031 U	< 0.031 U	< 0.033 U	< 0.030 U	< 0.041 U
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		NS	NS	NS	NS	**0.13**	< 0.030 U	< 0.030 U	< 0.031 U	**0.79 J**	**1.3 J**	< 0.030 U	< 0.041 U
Fuel Oil (mg/Kg)																		
TPH (SGT-HEM)	TPH	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Percent Solids																		
Solids, percent	SOLID	NL	NL	NL	NL		**84**	**80**	**62**	**92**	**85**	**82**	**83**	**80**	**80**	**75**	**84**	**61**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C6D 14-16 6/26/2013 MW-C6D(14-16)062613 3062710	MW-C6D 28-30 6/26/2013 MW-C6D(28-30)062613 3062710	MW-C7D 0.5-1 5/23/2013 MW-C7D (0.5-1)052313 3052319	MW-C7D 9-11 6/17/2013 MW-C7D(9-11)061713 3061808	MW-C7D 14-16 6/17/2013 MW-C7D(14-16)061713 3061808	MW-C7D 27-29 6/17/2013 MW-C7D(27-29)061713 3061808	MW-C7D 47-49 6/18/2013 MW-C7D(47-49)061813 3061919	MW-C8D 0.5-1 5/24/2013 MW-C8D(0.5-1)052413 3052418	MW-C8D 9-11 7/30/2013 MW-C8D(9-11)073013 3073115	MW-C8D 14-16 7/30/2013 MW-C8D(14-16)073013 3073115	MW-C8D 23-25 7/30/2013 MW-C8D(23-25)073013 3073115	MW-C8D 39-41 7/30/2013 MW-C8D(39-41)073013 3073115
		Unrestricted Use	Restricted Use Restricted Residential	Restricted Use Commercial	Restricted Use Industrial													
BTEX mg/Kg																		
Benzene	71-43-2	0.06	4.8	44	89		**0.87**	< 0.0020 U	< 0.65 U	< 7.1 U	< 0.062 U	< 0.18 U	< 0.0014 U	< 0.0013 U	< 0.079 U	**0.012**	< 0.010 U	< 0.0015 U
Ethylbenzene	100-41-4	1	41	390	780		**41**	< 0.0020 U	< 1.3 U	< 14 U	**0.28**	**4.2**	< 0.0014 U	< 0.0013 U	**0.58**	**0.016**	**0.37**	< 0.0015 U
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		**8.4**	< 0.0020 U	**1.5**	< 14 U	< 0.12 U	**2.1**	< 0.0014 U	< 0.0013 U	< 0.16 U	**0.0063**	**0.055**	< 0.0015 U
o-Xylene	95-47-6	NL	NL	NL	NL		**4.9**	< 0.0020 U	< 1.3 U	< 14 U	< 0.12 U	**0.67**	< 0.0014 U	< 0.0013 U	< 0.16 U	**0.004**	**0.049**	< 0.0015 U
Toluene	108-88-3	0.7	100	500	1000		< 1.3 U	< 0.0020 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0014 U	< 0.0013 U	< 0.16 U	**0.0032**	< 0.010 U	< 0.0015 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		**13.3**	< 0.0020 U	**1.5**	< 14 U	< 0.12 U	**2.77**	< 0.0014 U	< 0.0013 U	< 0.16 U	**0.0103**	**0.104**	< 0.0015 U
Total BTEX		NL	NL	NL	NL		**55.17**	ND	**1.5**	ND	**0.28**	**6.97**	ND	ND	**0.58**	**0.0415**	**0.474**	ND
VOC (mg/Kg)																		
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.76 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 1.3 UJ	< 0.0040 U	**2.1**	< 14 UJ	< 0.12 UJ	< 0.37 UJ	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 UJ	< 0.021 UJ	< 0.0030 UJ
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 1.3 UJ	< 0.0040 U	**60**	< 14 UJ	< 0.12 UJ	< 0.37 UJ	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 1.3 UJ	< 0.0040 U	< 1.3 UJ	< 14 UJ	< 0.12 UJ	< 0.37 UJ	< 0.0028 U	< 0.0026 U	< 0.16 UJ	< 0.0033 U	< 0.021 U	< 0.0030 U
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 1.3 U	< 0.0040 U	**1.6**	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.66 U	< 0.0020 U	< 0.65 U	< 7.1 U	< 0.062 U	< 0.18 U	< 0.0028 U	< 0.0026 U	< 0.079 U	< 0.0016 U	< 0.010 U	< 0.0015 U
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 1.3 U	< 0.0040 U	**37**	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		< 1.3 U	< 0.0040 U	**140**	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	0.12	100	500	1000		< 1.3 U	R	< 1.3 U	< 14 U	< 0.12 U	< 0.37 UJ	R	< 0.0026 U	< 0.16 U	R	R	R
2-Hexanone	591-78-6	NL	NL	NL	NL		< 1.3 UJ	R	< 1.3 U	< 14 UJ	< 0.12 UJ	< 0.37 UJ	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 UJ	< 0.0028 U	< 0.0026 UJ	< 0.16 UJ	< 0.0033 U	< 0.021 U	< 0.0030 U
Acetone	67-64-1	0.05	100	500	1000		< 13 U	R	< 13 U	< 140 U	< 1.2 U	< 3.7 UJ	R	R	< 1.6 U	**0.12 J**	R	R
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 UJ	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Bromoform	75-25-2	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Bromomethane	74-83-9	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 1.3 U	**0.0075**	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	**0.0042**	**0.026**	< 0.0030 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 UJ	< 0.021 UJ	< 0.0030 UJ
Chlorobenzene	108-90-7	1.1	100	500	1000		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Chloroform	67-66-3	0.37	49	350	700		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 UJ	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 1.3 UJ	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 UJ	< 0.0033 U	< 0.021 U	< 0.0030 U
Cyclohexane	110-82-7	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 1.3 UJ	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 UJ	< 0.16 U	< 0.0033 UJ	< 0.021 UJ	< 0.0030 UJ
Isopropylbenzene	98-82-8	NL	NL	NL	NL		**4.8**	< 0.0020 U	< 1.3 U	< 14 U	< 0.12 U	**0.54**	< 0.0014 U	< 0.0013 U	**0.38**	**0.0055**	**0.19**	< 0.0015 U
Methyl acetate	79-20-9	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 UJ	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.66 U	< 0.0020 U	< 0.65 U	< 7.1 U	< 0.062 U	< 0.18 U	< 0.0014 U	< 0.0013 UJ	< 0.079 U	< 0.0016 U	< 0.010 U	< 0.0015 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Methylene chloride	75-09-2	0.05	100	500	1000		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Styrene	100-42-5	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Tetrachloroethene	127-18-4	1.3	19	150	300		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 UJ	< 0.0033 U	< 0.021 U	< 0.0030 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 1.3 UJ	< 0.0040 U	< 1.3 U	< 14 UJ	< 0.12 UJ	< 0.37 UJ	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Trichloroethene	79-01-6	0.47	21	200	400		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 UJ	< 0.021 UJ	< 0.0030 UJ
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 1.3 U	< 0.0040 U	< 1.3 U	< 14 U	< 0.12 U	< 0.37 U	< 0.0028 U	< 0.0026 U	< 0.16 U	< 0.0033 U	< 0.021 U	< 0.0030 U
Total VOC		NL	NL	NL	NL		**59.97**	**0.0075**	**242.2**	ND	**0.28**	**7.51**	ND	ND	**0.96**	**0.1712**	**0.69**	ND

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C6D 14-16 6/26/2013 MW-C6D(14-16)062613 3062710	MW-C6D 28-30 6/26/2013 MW-C6D(28-30)062613 3062710	MW-C7D 0.5-1 5/23/2013 MW-C7D (0.5-1)052313 3052319	MW-C7D 9-11 6/17/2013 MW-C7D(9-11)061713 3061808	MW-C7D 14-16 6/17/2013 MW-C7D(14-16)061713 3061808	MW-C7D 27-29 6/17/2013 MW-C7D(27-29)061713 3061808	MW-C7D 47-49 6/18/2013 MW-C7D(47-49)061813 3061919	MW-C8D 0.5-1 5/24/2013 MW-C8D(0.5-1)052413 3052418	MW-C8D 9-11 7/30/2013 MW-C8D(9-11)073013 3073115	MW-C8D 14-16 7/30/2013 MW-C8D(14-16)073013 3073115	MW-C8D 23-25 7/30/2013 MW-C8D(23-25)073013 3073115	MW-C8D 39-41 7/30/2013 MW-C8D(39-41)073013 3073115
		Unrestricted Use	Restricted Residential	Commercial	Industrial													
			Restricted Use															
PAH (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		**5.6**	**0.20**	**0.66**	**53**	**6.6**	**0.61**	< 0.043 U	< 0.11 U	< 2.6 U	**0.53**	**1.9**	**0.046**
Acenaphthene	83-32-9	20	100	500	1000		**6.9**	**0.32**	**0.67**	**130**	**16**	**0.88**	< 0.043 U	< 0.11 U	**39**	**8.8**	**2.8**	**0.057**
Acenaphthylene	208-96-8	100	100	500	1000		< 0.62 U	< 0.055 U	**0.91**	< 9.8 U	< 0.43 U	**0.17**	< 0.043 U	< 0.11 U	**7.6**	**0.52**	**0.57**	< 0.042 U
Anthracene	120-12-7	100	100	500	1000		**4.4**	**0.37**	**1.7**	**59**	**1.8**	< 0.13 U	< 0.043 U	< 0.11 U	**47**	**4.4**	**1.7**	< 0.042 U
Benzo(a)anthracene	56-55-3	1	1	5.6	11		**5.5**	**0.39**	**3.7**	**24**	**1.1**	< 0.13 U	< 0.043 U	**0.34**	**21**	**4.4**	**0.87**	< 0.042 U
Benzo(a)pyrene	50-32-8	1	1	1	1.1		**4.0**	**0.28**	**3.4**	**26**	**0.97**	< 0.13 U	**0.12**	**0.35**	**25**	**4.1**	**0.83**	< 0.042 U
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		**4.6**	**0.33**	**7.2**	**18**	**0.82**	< 0.13 U	< 0.043 U	**0.57**	**17**	**4.6**	**0.62**	< 0.042 U
Benzo(ghi)perylene	191-24-2	100	100	500	1000		**2.2**	**0.15**	**1.6**	**20**	**0.66**	< 0.13 U	< 0.043 U	**0.35**	**19**	**3**	**0.57**	< 0.011 U
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		**1.6**	**0.13**	**1.9**	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	**0.17**	**5.2**	**1.1**	< 0.43 U	< 0.042 U
Chrysene	218-01-9	1	3.9	56	110		**4.9**	**0.33**	**4.8**	**20**	**0.91**	< 0.13 U	< 0.043 U	**0.40**	**18**	**4.1**	**0.72**	< 0.042 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		**0.63**	< 0.055 U	**0.64**	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	**0.13**	< 2.6 U	**0.56**	< 0.43 U	< 0.042 U
Fluoranthene	206-44-0	100	100	500	1000		**12**	**0.86**	**7.1**	**83**	**3.2**	**0.17**	< 0.043 U	**0.36**	**71**	**9.6**	**1.9**	**0.045**
Fluorene	86-73-7	30	100	500	1000		**4.2**	**0.28**	**1.5**	**56**	**3.7**	**0.13**	< 0.043 U	< 0.11 U	**46**	**3.5**	**1.3**	< 0.042 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		**1.9**	**0.14**	**1.8**	**11**	< 0.43 U	< 0.13 U	< 0.043 U	**0.27**	**10**	**2.1**	< 0.43 U	< 0.042 U
Naphthalene	91-20-3	12	100	500	1000		**31**	**0.68**	**1.2**	**750**	**27**	**10**	< 0.011 U	**0.098**	**29**	**2.4**	**20**	**0.23**
Phenanthrene	85-01-8	100	100	500	1000		**19**	**1.5**	**6.1**	**200**	**8.0**	**0.15**	< 0.043 U	**0.23**	**160**	**14**	**5.2**	**0.14**
Pyrene	129-00-0	100	100	500	1000		**13**	**0.97**	**6.3**	**130**	**4.4**	**0.24**	< 0.043 U	**0.48**	**120**	**13**	**3.5**	**0.096**
Total PAH		500	NL	NL	NL	500	**121.43**	**6.93**	**51.18**	**1580**	**75.16**	**12.35**	**0.12**	**3.748**	**634.8**	**80.71**	**42.48**	**0.614**
SVOC (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		**1.1**	< 0.055 U	< 0.22 U	**23**	**1.2**	**0.23**	< 0.043 U	< 0.11 U	**4.6**	< 0.29 U	**1**	< 0.042 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 0.62 U	< 0.055 U	**0.38**	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 0.16 U	< 0.014 U	< 0.055 U	< 2.5 U	< 0.11 U	< 0.031 U	< 0.011 U	< 0.027 U	< 0.64 U	< 0.074 U	< 0.11 U	< 0.011 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 0.16 U	< 0.014 U	< 0.055 U	< 2.5 U	< 0.11 U	< 0.031 U	< 0.011 U	< 0.027 U	< 0.64 U	< 0.074 U	< 0.11 U	< 0.011 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 3.1 U	< 0.27 U	< 1.1 U	< 49 U	< 2.2 U	< 0.63 U	< 0.22 U	< 0.54 U	< 13 U	< 1.5 U	< 2.1 U	< 0.21 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 0.16 U	< 0.014 U	< 0.055 U	< 2.5 U	< 0.11 U	< 0.031 U	< 0.011 U	< 0.027 U	< 0.64 U	< 0.074 U	< 0.11 U	< 0.011 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 1.1 U	< 49 U	< 2.2 U	< 0.63 U	< 0.22 U	< 0.54 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 0.30 U	< 0.026 U	< 0.10 U	< 4.6 U	< 0.21 U	< 0.060 U	< 0.021 U	< 0.051 U	< 1.2 U	< 0.14 U	< 0.20 U	< 0.020 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
4-Methylphenol	106-44-5	0.33	100	500	1000		< 0.16 U	**0.035**	< 0.055 U	< 2.5 U	< 0.11 U	< 0.031 U	< 0.011 U	< 0.027 U	< 0.64 U	< 0.074 U	< 0.11 U	< 0.011 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 UJ	< 0.43 UJ	< 0.13 U	< 0.043 UJ	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 UJ	< 0.43 UJ	< 0.13 U	< 0.043 UJ	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 0.16 U	< 0.014 U	< 0.055 U	< 2.5 U	< 0.11 U	< 0.031 U	< 0.011 U	< 0.027 U	< 0.64 U	< 0.074 U	< 0.11 U	< 0.011 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	**0.62**	< 0.43 U	< 0.042 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Carbazole	86-74-8	NL	NL	NL	NL		**1.6**	**0.14**	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Dibenzofuran	132-64-9	7	59	350	1000		**2.9**	**0.23**	**0.82**	< 2.5 U	< 0.11 U	< 0.031 U	< 0.011 U	< 0.027 U	< 0.64 U	< 0.074 U	< 0.11 U	< 0.011 U
Diethyl phthalate	84-66-2	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	**0.46**	< 0.43 U	**0.091**
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		< 0.62 U	< 0.069 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	**0.045 J**	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		< 0.31 U	< 0.027 U	< 0.11 U	< 4.9 U	< 0.22 U	< 0.063 U	< 0.022 U	< 0.054 U	< 1.3 U	< 0.15 U	< 0.21 U	< 0.021 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 0.62 U	< 0.27 U	< 0.22 UJ	< 49 UJ	< 2.2 UJ	< 0.63 U	< 0.22 UJ	< 0.11 UJ	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Isophorone	78-59-1	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 0.16 U	< 0.014 U	< 0.055 U	< 2.5 U	< 0.11 U	< 0.031 U	< 0.011 U	< 0.027 U	< 0.64 U	< 0.074 U	< 0.11 U	< 0.011 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 3.1 U	< 0.27 U	< 1.1 U	< 49 U	< 2.2 U	< 0.63 U	< 0.22 U	< 0.54 U	< 4.3 U	< 0.49 U	< 0.72 U	< 0.071 U
Phenol	108-95-2	0.33	100	500	1000		< 0.62 U	< 0.055 U	< 0.22 U	< 9.8 U	< 0.43 U	< 0.13 U	< 0.043 U	< 0.11 U	< 2.6 U	< 0.29 U	< 0.43 U	< 0.042 U
Total SVOC		NL	NL	NL	NL		**127.03**	**7.335**	**52.38**	**1603**	**76.36**	**12.58**	**0.165**	**3.748**	**639.4**	**81.79**	**43.48**	**0.705**

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C6D 14-16 6/26/2013 MW-C6D(14-16)062613 3062710	MW-C6D 28-30 6/26/2013 MW-C6D(28-30)062613 3062710	MW-C7D 0.5-1 5/23/2013 MW-C7D (0.5-1)052313 3052319	MW-C7D 9-11 6/17/2013 MW-C7D(9-11)061713 3061808	MW-C7D 14-16 6/17/2013 MW-C7D(14-16)061713 3061808	MW-C7D 27-29 6/17/2013 MW-C7D(27-29)061713 3061808	MW-C7D 47-49 6/18/2013 MW-C7D(47-49)061813 3061919	MW-C8D 0.5-1 5/24/2013 MW-C8D(0.5-1)052413 3052418	MW-C8D 9-11 7/30/2013 MW-C8D(9-11)073013 3073115	MW-C8D 14-16 7/30/2013 MW-C8D(14-16)073013 3073115	MW-C8D 23-25 7/30/2013 MW-C8D(23-25)073013 3073115	MW-C8D 39-41 7/30/2013 MW-C8D(39-41)073013 3073115
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
Metals (mg/Kg)																		
Arsenic	7440-38-2	13	16	16	16		NS	NS	**10**	NS	NS	NS	NS	**7.4**	NS	NS	NS	NS
Barium	7440-39-3	350	400	400	10000		NS	NS	**530**	NS	NS	NS	NS	**110**	NS	NS	NS	NS
Cadmium	7440-43-9	2.5	4.3	9.3	60		NS	NS	**0.74**	NS	NS	NS	NS	< 0.65 U	NS	NS	NS	NS
Chromium	7440-47-3	30	180	1500	6800		NS	NS	**12**	NS	NS	NS	NS	**12**	NS	NS	NS	NS
Lead	7439-92-1	63	400	1000	3900		NS	NS	**860**	NS	NS	NS	NS	**1100**	NS	NS	NS	NS
Mercury	7439-97-6	0.18	0.81	2.8	5.7		NS	NS	**0.28**	NS	NS	NS	NS	< 0.090 U	NS	NS	NS	NS
Selenium	7782-49-2	3.9	180	1500	6800		NS	NS	< 2.0 U	NS	NS	NS	NS	< 1.9 U	NS	NS	NS	NS
Silver	7440-22-4	2	180	1500	6800		NS	NS	< 1.6 U	NS	NS	NS	NS	< 1.6 U	NS	NS	NS	NS
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL		< 0.031 U	NS	NS	NS	NS	NS	NS	< 0.027 U	< 0.032 U	< 0.037 U	< 0.032 U	< 0.032 U
Aroclor 1221	11104-28-2	NL	NL	NL	NL		< 0.031 U	NS	NS	NS	NS	NS	NS	< 0.027 U	< 0.032 U	< 0.037 U	< 0.032 U	< 0.032 U
Aroclor 1232	11141-16-5	NL	NL	NL	NL		< 0.031 U	NS	NS	NS	NS	NS	NS	< 0.027 U	< 0.032 U	< 0.037 U	< 0.032 U	< 0.032 U
Aroclor 1242	53469-21-9	NL	NL	NL	NL		< 0.031 U	NS	NS	NS	NS	NS	NS	< 0.027 U	< 0.032 U	< 0.037 U	< 0.032 U	< 0.032 U
Aroclor 1248	12672-29-6	NL	NL	NL	NL		< 0.031 U	NS	NS	NS	NS	NS	NS	< 0.027 U	< 0.032 U	< 0.037 U	< 0.032 U	< 0.032 U
Aroclor 1254	11097-69-1	NL	NL	NL	NL		< 0.031 U	NS	NS	NS	NS	NS	NS	< 0.027 U	< 0.032 U	< 0.037 U	< 0.032 U	< 0.032 U
Aroclor 1260	11096-82-5	NL	NL	NL	NL		< 0.031 U	NS	NS	NS	NS	NS	NS	**2.0**	**0.35**	**0.12**	< 0.032 U	< 0.032 U
Aroclor 1262	37324-23-5	NL	NL	NL	NL		< 0.031 U	NS	NS	NS	NS	NS	NS	< 0.027 U	< 0.032 U	< 0.037 U	< 0.032 U	< 0.032 U
Aroclor 1268	11100-14-4	NL	NL	NL	NL		< 0.031 U	NS	NS	NS	NS	NS	NS	< 0.027 U	< 0.032 U	< 0.037 U	< 0.032 U	< 0.032 U
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		< 0.031 U	NS	NS	NS	NS	NS	NS	**2.0**	**0.35**	**0.12**	< 0.032 U	< 0.032 U
Fuel Oil (mg/Kg)																		
TPH (SGT-HEM)	TPH	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	**1100 J**	NS	NS	NS	NS
Percent Solids																		
Solids, percent	SOLID	NL	NL	NL	NL		**80**	**61**	**91**	**68**	**77**	**53**	**77**	**93**	**78**	**68**	**78**	**79**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C9D 9-11 7/2/2013 MW-C9D(9-11)070213 3070311	MW-C9D 14-16 7/2/2013 MW-C9D(14-16)070213 3070311	MW-C9D 48-50 7/3/2013 MW-C9D(48-50)070213 3070311	MW-C10S 0.5-1 5/29/2013 MW-C10S(0.5-1)052913 3053020	MW-C10D 12-13 6/20/2013 MW-C10D(12-13)062013 3062111	MW-C10D 15-17 6/20/2013 MW-C10D(15-17)062013 3062111	MW-C10D 20-22 6/20/2013 MW-C10D(20-22)062013 3062111	MW-C10D 47-49 6/20/2013 MW-C10D(47-49)062013 3062111	MW-C11D 9-11 7/9/2013 MW-C11D (9-11)070913 3071129	MW-C11D 14-16 7/10/2013 MW-C11D (14-16)071013 3071129	MW-C11D 49-51 7/12/2013 MW-C11D (49-51)071213 3071210	MW-C12D 9-11 6/26/2013 MW-C12D(9-11)062613 3062710
		Unrestricted Use	Restricted Residential	Commercial	Industrial													
			Restricted Use															
BTEX mg/Kg																		
Benzene	71-43-2	0.06	4.8	44	89		< 0.0012 U	< 0.0014 U	< 0.0011 U	< 0.0014 U	< 0.0012 U	< 0.0014 U	< 0.094 U	< 0.0016 U	< 0.0015 U	< 0.0011 U	< 0.0011 U	< 0.0012 U
Ethylbenzene	100-41-4	1	41	390	780		< 0.0012 UJ	< 0.0014 UJ	< 0.0011 UJ	< 0.0014 UJ	< 0.0012 U	< 0.0014 U	< 0.19 U	< 0.0016 U	< 0.0015 U	< 0.0011 U	< 0.0011 U	< 0.0012 U
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		< 0.0012 UJ	< 0.0014 UJ	< 0.0011 UJ	< 0.0029 UJ	< 0.0012 U	< 0.0014 U	**0.2**	< 0.0016 U	< 0.0015 U	< 0.0011 U	< 0.0011 U	< 0.0012 U
o-Xylene	95-47-6	NL	NL	NL	NL		< 0.0012 U	< 0.0014 U	< 0.0011 U	< 0.0014 UJ	< 0.0012 UJ	< 0.0014 UJ	< 0.19 U	< 0.0016 U	< 0.0015 UJ	< 0.0011 UJ	< 0.0011 U	< 0.0012 U
Toluene	108-88-3	0.7	100	500	1000		< 0.0012 U	< 0.0014 U	< 0.0011 U	< 0.0014 U	< 0.0012 UJ	< 0.0014 UJ	< 0.19 U	< 0.0016 UJ	< 0.0015 U	< 0.0011 U	< 0.0011 U	< 0.0012 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		< 0.0012 UJ	< 0.0014 UJ	< 0.0011 UJ	< 0.0014 UJ	< 0.0012 UJ	< 0.0014 UJ	**0.2**	< 0.0016 UJ	< 0.0015 UJ	< 0.0011 UJ	< 0.0011 U	< 0.0012 U
Total BTEX		NL	NL	NL	NL		ND	ND	ND	ND	ND	ND	**0.2**	ND	ND	ND	ND	ND
VOC (mg/Kg)																		
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 UJ	< 0.0029 UJ	< 0.19 U	< 0.0033 UJ	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 UJ	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 UJ	< 0.0029 UJ	< 0.19 U	< 0.0033 UJ	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 0.0024 UJ	< 0.0027 UJ	< 0.0021 UJ	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 UJ	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 UJ
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 0.0024 UJ	< 0.0027 UJ	< 0.0021 UJ	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 UJ	< 0.0033 U	< 0.0030 UJ	< 0.0023 UJ	< 0.0021 U	< 0.0024 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 0.0024 UJ	< 0.0027 UJ	< 0.0021 UJ	< 0.0029 UJ	< 0.0024 UJ	< 0.0029 UJ	< 0.19 UJ	< 0.0033 UJ	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 UJ
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0012 U	< 0.0014 U	< 0.094 U	< 0.0016 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 UJ
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 UJ
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 0.0024 UJ	< 0.0027 UJ	< 0.0021 UJ	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		< 0.0024 UJ	< 0.0027 UJ	< 0.0021 UJ	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	0.12	100	500	1000		R	R	R	< 0.0029 U	R	R	< 0.19 U	< 0.0033 U	R	R	< 0.0021 U	R
2-Hexanone	591-78-6	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 UJ
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 UJ
Acetone	67-64-1	0.05	100	500	1000		R	R	R	R	**0.063 J**	**0.15 J**	< 1.9 U	**0.070 J**	R	R	R	R
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 U
Bromoform	75-25-2	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 UJ	< 0.0024 UJ	< 0.0029 UJ	< 0.19 U	< 0.0033 UJ	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 U
Bromomethane	74-83-9	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	**0.016**	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 UJ	< 0.0029 UJ	< 0.19 U	< 0.0033 UJ	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Chlorobenzene	108-90-7	1.1	100	500	1000		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 UJ
Chloroform	67-66-3	0.37	49	350	700		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 UJ
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Cyclohexane	110-82-7	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Isopropylbenzene	98-82-8	NL	NL	NL	NL		< 0.0012 U	< 0.0014 U	< 0.0011 U	< 0.0014 UJ	< 0.0012 UJ	< 0.0014 UJ	< 0.19 U	< 0.0016 UJ	< 0.0015 U	< 0.0011 U	< 0.0011 U	< 0.0012 U
Methyl acetate	79-20-9	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 UJ
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.0012 U	< 0.0014 U	< 0.0011 U	< 0.0014 U	< 0.0012 U	< 0.0014 U	< 0.094 U	< 0.0016 U	< 0.0015 U	< 0.0011 U	< 0.0011 U	< 0.0012 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Methylene chloride	75-09-2	0.05	100	500	1000		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 U
Styrene	100-42-5	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 UJ	< 0.0023 UJ	< 0.0021 U	< 0.0024 U
Tetrachloroethene	127-18-4	1.3	19	150	300		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 UJ	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Trichloroethene	79-01-6	0.47	21	200	400		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 UJ	< 0.0024 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 0.0024 U	< 0.0027 U	< 0.0021 U	< 0.0029 U	< 0.0024 U	< 0.0029 U	< 0.19 U	< 0.0033 U	< 0.0030 U	< 0.0023 U	< 0.0021 U	< 0.0024 U
Total VOC		NL	NL	NL	NL		ND	ND	ND	ND	**0.063**	**0.166**	**0.2**	**0.07**	ND	ND	ND	ND

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C9D 9-11 7/2/2013 MW-C9D(9-11)070213 3070311	MW-C9D 14-16 7/2/2013 MW-C9D(14-16)070213 3070311	MW-C9D 48-50 7/3/2013 MW-C9D(48-50)070213 3070311	MW-C10S 0.5-1 5/29/2013 MW-C10S(0.5-1)052913 3053020	MW-C10D 12-13 6/20/2013 MW-C10D(12-13)062013 3062111	MW-C10D 15-17 6/20/2013 MW-C10D(15-17)062013 3062111	MW-C10D 20-22 6/20/2013 MW-C10D(20-22)062013 3062111	MW-C10D 47-49 6/20/2013 MW-C10D(47-49)062013 3062111	MW-C11D 9-11 7/9/2013 MW-C11D (9-11)070913 3071129	MW-C11D 14-16 7/10/2013 MW-C11D (14-16)071013 3071129	MW-C11D 49-51 7/12/2013 MW-C11D (49-51)071213 3071210	MW-C12D 9-11 6/26/2013 MW-C12D(9-11)062613 3062710
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
PAH (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	**0.087**	**19**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Acenaphthene	83-32-9	20	100	500	1000		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	**0.69**	**0.19**	**39**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Acenaphthylene	208-96-8	100	100	500	1000		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	**0.045**	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Anthracene	120-12-7	100	100	500	1000		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	**0.19**	**0.27**	**64**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Benzo(a)anthracene	56-55-3	1	1	5.6	11		**0.12**	**0.075**	< 0.041 U	**0.22**	**0.55**	**0.67**	**78**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Benzo(a)pyrene	50-32-8	1	1	1	1.1		**0.099**	**0.055**	< 0.041 U	**0.31**	**0.48**	**0.56**	**55**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		**0.14**	**0.078**	< 0.041 U	**0.35**	**0.65**	**0.74**	**65**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Benzo(ghi)perylene	191-24-2	100	100	500	1000		**0.063**	< 0.042 U	< 0.041 U	**0.28**	**0.31**	**0.35**	**26**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		**0.045**	< 0.042 U	< 0.041 U	**0.12**	**0.17**	**0.25**	**25**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Chrysene	218-01-9	1	3.9	56	110		**0.13**	**0.072**	< 0.041 U	**0.25**	**0.52**	**0.67**	**66**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		< 0.038 U	< 0.042 U	< 0.041 U	**0.082**	**0.094**	**0.13**	**9.2**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Fluoranthene	206-44-0	100	100	500	1000		**0.22**	**0.13**	< 0.041 U	**0.18**	**1.0**	**1.4**	**180**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Fluorene	86-73-7	30	100	500	1000		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	**0.37**	**0.16**	**42**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		**0.051**	< 0.042 U	< 0.041 U	**0.21**	**0.27**	**0.32**	**26**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Naphthalene	91-20-3	12	100	500	1000		**0.021**	< 0.011 U	< 0.010 U	< 0.020 U	**0.069**	**0.23**	**37**	< 0.012 U	< 0.011 U	< 0.0099 U	< 0.010 U	< 0.0096 U
Phenanthrene	85-01-8	100	100	500	1000		**0.20**	**0.13**	< 0.041 U	**0.088**	**0.81**	**1.4**	**240**	**0.067**	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Pyrene	129-00-0	100	100	500	1000		**0.25**	**0.14**	< 0.041 U	**0.30**	**1.1**	**1.6**	**150**	**0.048**	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Total PAH		500	NL	NL	NL	500	**1.339**	**0.68**	ND	**2.39**	**7.273**	**9.072**	**1121.2**	**0.115**	ND	ND	ND	ND
SVOC (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 0.0096 U	< 0.011 U	< 0.010 U	< 0.020 U	< 0.0098 U	< 0.011 U	< 1.3 U	< 0.012 U	< 0.011 U	< 0.0099 U	< 0.010 U	< 0.0096 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 0.0096 U	< 0.011 U	< 0.010 U	< 0.020 U	< 0.0098 U	< 0.011 U	< 1.3 U	< 0.012 U	< 0.011 U	< 0.0099 U	< 0.010 U	< 0.0096 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 0.19 U	< 0.21 U	< 0.21 U	< 0.39 U	< 0.20 U	< 0.22 U	< 26 U	< 0.23 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.19 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 0.0096 U	< 0.011 U	< 0.010 U	< 0.020 U	< 0.0098 U	< 0.011 U	< 1.3 U	< 0.012 U	< 0.011 U	< 0.0099 U	< 0.010 U	< 0.0096 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.39 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 0.018 U	< 0.020 U	< 0.020 U	< 0.037 U	< 0.019 U	< 0.021 U	< 2.5 U	< 0.022 U	< 0.020 U	< 0.019 U	< 0.020 U	< 0.018 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
4-Methylphenol	106-44-5	0.33	100	500	1000		< 0.0096 U	< 0.011 U	< 0.010 U	< 0.020 U	< 0.0098 U	< 0.011 U	< 1.3 U	< 0.012 U	< 0.011 U	< 0.0099 U	< 0.010 U	< 0.0096 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 0.0096 U	< 0.011 U	< 0.010 U	< 0.020 U	< 0.0098 U	< 0.011 U	< 1.3 U	< 0.012 U	< 0.011 U	< 0.0099 U	< 0.010 U	< 0.0096 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Carbazole	86-74-8	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	**0.088**	**0.15**	**27**	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Dibenzofuran	132-64-9	7	59	350	1000		< 0.0096 U	< 0.011 U	< 0.010 U	< 0.020 U	**0.18**	**0.12**	**32**	< 0.012 U	< 0.011 U	< 0.0099 U	< 0.010 U	< 0.0096 U
Diethyl phthalate	84-66-2	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		**0.24**	< 0.15 U	**0.16 J**	< 0.078 U	< 0.039 U	< 0.067 U	< 5.3 U	< 0.22 U	< 0.064 U	< 0.057 U	**0.11 J**	< 0.039 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		< 0.019 U	< 0.021 U	< 0.021 U	< 0.039 U	< 0.020 U	< 0.022 U	< 2.7 U	< 0.023 U	< 0.021 U	< 0.020 U	< 0.021 U	< 0.019 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 0.19 U	< 0.21 U	< 0.21 U	< 0.39 UJ	< 0.039 U	< 0.22 U	< 5.3 U	< 0.23 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.19 U
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Isophorone	78-59-1	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 0.0096 U	< 0.011 U	< 0.010 U	< 0.020 U	< 0.0098 U	< 0.011 U	< 1.3 U	< 0.012 U	< 0.011 U	< 0.0099 U	< 0.010 U	< 0.0096 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 0.19 U	< 0.21 U	< 0.21 U	< 0.39 U	< 0.20 U	< 0.22 U	< 26 U	< 0.23 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.19 U
Phenol	108-95-2	0.33	100	500	1000		< 0.038 U	< 0.042 U	< 0.041 U	< 0.078 U	< 0.039 U	< 0.043 U	< 5.3 U	< 0.046 U	< 0.042 U	< 0.040 U	< 0.041 U	< 0.038 U
Total SVOC		NL	NL	NL	NL		**1.579**	**0.68**	**0.16**	**2.39**	**7.541**	**9.342**	**1180.2**	**0.115**	ND	ND	**0.11**	ND

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C9D 9-11 7/2/2013 MW-C9D(9-11)070213 3070311	MW-C9D 14-16 7/2/2013 MW-C9D(14-16)070213 3070311	MW-C9D 48-50 7/3/2013 MW-C9D(48-50)070213 3070311	MW-C10S 0.5-1 5/29/2013 MW-C10S(0.5-1)052913 3053020	MW-C10D 12-13 6/20/2013 MW-C10D(12-13)062013 3062111	MW-C10D 15-17 6/20/2013 MW-C10D(15-17)062013 3062111	MW-C10D 20-22 6/20/2013 MW-C10D(20-22)062013 3062111	MW-C10D 47-49 6/20/2013 MW-C10D(47-49)062013 3062111	MW-C11D 9-11 7/9/2013 MW-C11D (9-11)070913 3071129	MW-C11D 14-16 7/10/2013 MW-C11D (14-16)071013 3071129	MW-C11D 49-51 7/12/2013 MW-C11D (49-51)071213 3071210	MW-C12D 9-11 6/26/2013 MW-C12D(9-11)062613 3062710
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
Metals (mg/Kg)																		
Arsenic	7440-38-2	13	16	16	16		NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	NS
Barium	7440-39-3	350	400	400	10000		NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	2.5	4.3	9.3	60		NS	NS	NS	**1.3**	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	7440-47-3	30	180	1500	6800		NS	NS	NS	**6.9**	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	63	400	1000	3900		NS	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	7439-97-6	0.18	0.81	2.8	5.7		NS	NS	NS	< 0.098 U	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	7782-49-2	3.9	180	1500	6800		NS	NS	NS	< 2.1 U	NS	NS	NS	NS	NS	NS	NS	NS
Silver	7440-22-4	2	180	1500	6800		NS	NS	NS	< 1.8 U	NS	NS	NS	NS	NS	NS	NS	NS
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Aroclor 1221	11104-28-2	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Aroclor 1232	11141-16-5	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Aroclor 1242	53469-21-9	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Aroclor 1248	12672-29-6	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Aroclor 1254	11097-69-1	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Aroclor 1260	11096-82-5	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Aroclor 1262	37324-23-5	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Aroclor 1268	11100-14-4	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.029 U
Fuel Oil (mg/Kg)																		
TPH (SGT-HEM)	TPH	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Percent Solids																		
Solids, percent	SOLID	NL	NL	NL	NL		**87**	**79**	**81**	**85**	**85**	**77**	**63**	**72**	**79**	**84**	**81**	**87**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C12D 14-16 6/26/2013 MW-C12D(14-16)062613 3062710	MW-C12D 45-47 6/28/2013 MW-C12D(45-47)062813 3062813	MW-C13D 12-13 12/24/2013 MW-C13D(12-13) 3122603	MW-C13D 17-18 12/24/2013 MW-C13D(17-18) 3122603	MW-C13D 20-22 12/24/2013 MW-C13D(20-22) 3122603	MW-C13D DUP 20-22 12/24/2013 DUP-12242013 3122603	MW-C13D 33-35 12/24/2013 MW-C13D(33-35) 3122603	MW-C13D 48-50 1/9/2014 MW-C13D (48-50) 4011018	MW-C14S 9-11 12/11/2013 MW-C14S (9-11)121113 3121215	MW-C14S 12-13 12/11/2013 MW-C14S (12-13)121113 3121215	MW-C14S 17-19 12/11/2013 MW-C14S (17-19)121113 3121215	MW-C14D 23-25 12/19/2013 MW-C14D (23-25)121913 3122028
		Unrestricted Use	Restricted Residential	Commercial	Industrial													
BTEX mg/Kg																		
Benzene	71-43-2	0.06	4.8	44	89		< 0.0014 U	< 0.0013 U	< 0.0012 U	< 0.0013 U	< 0.0013 U	< 0.0011 U	< 0.0012 U	**0.0024**	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0013 U
Ethylbenzene	100-41-4	1	41	390	780		< 0.0014 U	< 0.0013 U	< 0.0012 UJ	< 0.0013 UJ	< 0.0013 UJ	< 0.0011 UJ	< 0.0012 UJ	< 0.00090 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0013 U
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		< 0.0014 U	< 0.0013 U	< 0.0012 UJ	< 0.0013 UJ	< 0.0013 UJ	< 0.0011 UJ	< 0.0012 UJ	< 0.00090 UJ	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0013 U
o-Xylene	95-47-6	NL	NL	NL	NL		< 0.0014 U	< 0.0013 U	< 0.0012 U	< 0.0013 U	< 0.0013 U	< 0.0011 U	< 0.0012 U	**0.0015**	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0013 U
Toluene	108-88-3	0.7	100	500	1000		< 0.0014 U	< 0.0013 U	< 0.0012 U	< 0.0013 U	< 0.0013 U	< 0.0011 U	< 0.0012 U	< 0.00090 U	< 0.0011 UJ	< 0.0011 U	< 0.0011 UJ	< 0.0013 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		< 0.0014 U	< 0.0013 U	< 0.0012 UJ	< 0.0013 UJ	< 0.0013 UJ	< 0.0011 UJ	< 0.0012 UJ	**0.0015 J**	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0013 U
Total BTEX		NL	NL	NL	NL		ND	ND	ND	ND	ND	ND	ND	**0.0039**	ND	ND	ND	ND
VOC (mg/Kg)																		
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 0.0028 UJ	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 UJ	< 0.0022 UJ	< 0.0023 UJ	< 0.0021 UJ	< 0.0027 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 0.0028 UJ	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 UJ	< 0.0022 U	< 0.0023 UJ	< 0.0021 U	< 0.0027 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 0.0028 UJ	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 UJ	< 0.0021 U	< 0.0027 U
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.0028 UJ	< 0.0013 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 0.0028 UJ	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	R	R	R	R	R	< 0.090 U	R	R	R	R
2-Butanone	78-93-3	0.12	100	500	1000		R	R	R	R	R	R	R	< 0.0018 U	R	R	R	R
2-Hexanone	591-78-6	NL	NL	NL	NL		< 0.0028 UJ	R	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	R	< 0.0021 U	< 0.0027 U
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 0.0028 UJ	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 UJ	< 0.0023 UJ	< 0.0021 UJ	< 0.0027 U
Acetone	67-64-1	0.05	100	500	1000		R	R	R	R	R	R	R	< 0.0090 U	R	R	R	R
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 0.0028 UJ	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Bromoform	75-25-2	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Bromomethane	74-83-9	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 UJ	< 0.0027 UJ	< 0.0027 UJ	< 0.0023 UJ	< 0.0025 UJ	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	**0.0029 J**	< 0.0025 U	< 0.0018 UJ	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Chlorobenzene	108-90-7	1.1	100	500	1000		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 0.0028 UJ	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Chloroform	67-66-3	0.37	49	350	700		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 0.0028 UJ	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Cyclohexane	110-82-7	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 UJ	< 0.0027 UJ	< 0.0027 UJ	< 0.0023 UJ	< 0.0025 UJ	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Isopropylbenzene	98-82-8	NL	NL	NL	NL		< 0.0014 U	< 0.0013 U	< 0.0012 U	< 0.0013 U	< 0.0013 U	< 0.0011 U	< 0.0012 U	< 0.00090 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0013 U
Methyl acetate	79-20-9	NL	NL	NL	NL		< 0.0028 UJ	< 0.0026 U	R	R	R	R	R	< 0.0018 U	R	R	R	R
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.0014 U	< 0.0013 U	< 0.0012 U	< 0.0013 U	< 0.0013 U	< 0.0011 U	< 0.0012 U	< 0.00090 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0013 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Methylene chloride	75-09-2	0.05	100	500	1000		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Styrene	100-42-5	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Tetrachloroethene	127-18-4	1.3	19	150	300		< 0.0028 U	< 0.0026 U	< 0.0023 UJ	< 0.0027 UJ	< 0.0027 UJ	< 0.0023 UJ	< 0.0025 UJ	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Trichloroethene	79-01-6	0.47	21	200	400		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 0.0028 U	< 0.0026 U	< 0.0023 U	< 0.0027 U	< 0.0027 U	< 0.0023 U	< 0.0025 U	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 0.0028 U	< 0.0026 U	< 0.0023 UJ	< 0.0027 UJ	< 0.0027 UJ	< 0.0023 UJ	< 0.0025 UJ	< 0.0018 U	< 0.0022 U	< 0.0023 U	< 0.0021 U	< 0.0027 U
Total VOC		NL	NL	NL	NL		ND	ND	ND	ND	ND	**0.0029**	ND	**0.0039**	ND	ND	ND	ND

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C12D 14-16 6/26/2013 MW-C12D(14-16)062613 3062710	MW-C12D 45-47 6/28/2013 MW-C12D(45-47)062813 3062813	MW-C13D 12-13 12/24/2013 MW-C13D(12-13) 3122603	MW-C13D 17-18 12/24/2013 MW-C13D(17-18) 3122603	MW-C13D 20-22 12/24/2013 MW-C13D(20-22) 3122603	MW-C13D DUP 20-22 12/24/2013 DUP-12242013 3122603	MW-C13D 33-35 12/24/2013 MW-C13D(33-35) 3122603	MW-C13D 48-50 1/9/2014 MW-C13D (48-50) 4011018	MW-C14S 9-11 12/11/2013 MW-C14S (9-11)121113 3121215	MW-C14S 12-13 12/11/2013 MW-C14S (12-13)121113 3121215	MW-C14S 17-19 12/11/2013 MW-C14S (17-19)121113 3121215	MW-C14D 23-25 12/19/2013 MW-C14D (23-25)121913 3122028
		Unrestricted Use	Restricted Residential	Commercial	Industrial													
PAH (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Acenaphthene	83-32-9	20	100	500	1000		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Acenaphthylene	208-96-8	100	100	500	1000		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Anthracene	120-12-7	100	100	500	1000		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Benzo(a)anthracene	56-55-3	1	1	5.6	11		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	**0.050**	< 0.040 U	< 0.039 U
Benzo(a)pyrene	50-32-8	1	1	1	1.1		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	**0.044**	< 0.040 U	< 0.039 U
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	**0.068**	< 0.040 U	< 0.039 U
Benzo(ghi)perylene	191-24-2	100	100	500	1000		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Chrysene	218-01-9	1	3.9	56	110		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	**0.068**	< 0.040 U	< 0.039 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Fluoranthene	206-44-0	100	100	500	1000		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	**0.044**	**0.11**	< 0.040 U	< 0.039 U
Fluorene	86-73-7	30	100	500	1000		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 UJ	< 0.040 U	< 0.040 U	< 0.039 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Naphthalene	91-20-3	12	100	500	1000		< 0.010 U	< 0.0099 U	< 0.0098 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.010 U	**0.089**	< 0.010 UJ	< 0.010 U	< 0.0099 U	< 0.0097 U
Phenanthrene	85-01-8	100	100	500	1000		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	**0.08**	< 0.040 U	< 0.039 U
Pyrene	129-00-0	100	100	500	1000		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	**0.050**	**0.11**	< 0.040 U	< 0.039 U
Total PAH		500	NL	NL	NL	500	ND	ND	ND	ND	ND	ND	ND	**0.089**	**0.094**	**0.53**	ND	ND
SVOC (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 0.010 U	< 0.0099 U	< 0.0098 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.0096 U	< 0.010 U	< 0.010 U	< 0.0099 U	< 0.0097 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 0.010 U	< 0.0099 U	< 0.0098 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.0096 U	< 0.010 U	< 0.010 U	< 0.0099 U	< 0.0097 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.19 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 UJ	< 0.040 U	< 0.040 U	< 0.039 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 0.010 U	< 0.0099 U	< 0.0098 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.0096 U	< 0.010 U	< 0.010 U	< 0.0099 U	< 0.0097 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.19 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.020 U	< 0.020 U	< 0.018 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.018 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
4-Methylphenol	106-44-5	0.33	100	500	1000		< 0.010 U	< 0.0099 U	< 0.0098 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.0096 U	< 0.010 U	< 0.010 U	< 0.0099 U	< 0.0097 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 UJ	< 0.041 UJ	< 0.042 UJ	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 0.010 U	< 0.0099 U	< 0.0098 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.0096 U	< 0.010 U	< 0.010 U	< 0.0099 U	< 0.0097 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Carbazole	86-74-8	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Dibenzofuran	132-64-9	7	59	350	1000		< 0.010 U	< 0.0099 U	< 0.0098 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.0096 U	< 0.010 U	< 0.010 U	< 0.0099 U	< 0.0097 U
Diethyl phthalate	84-66-2	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		< 0.020 U	< 0.020 U	< 0.020 U	< 0.020 U	< 0.020 U	< 0.021 U	< 0.021 U	< 0.019 U	< 0.020 U	< 0.020 U	< 0.020 U	< 0.019 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 0.20 U	< 0.20 U	< 0.039 U	< 0.041 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.19 U
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Isophorone	78-59-1	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 0.010 U	< 0.0099 U	< 0.0098 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.010 U	< 0.0096 U	< 0.010 U	< 0.010 U	< 0.0099 U	< 0.0097 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.19 U
Phenol	108-95-2	0.33	100	500	1000		< 0.040 U	< 0.040 U	< 0.039 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.042 U	< 0.038 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.039 U
Total SVOC		NL	NL	NL	NL		ND	ND	ND	ND	ND	ND	ND	**0.089**	**0.094**	**0.53**	ND	ND

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C12D 14-16 6/26/2013 MW-C12D(14-16)062613 3062710	MW-C12D 45-47 6/28/2013 MW-C12D(45-47)062813 3062813	MW-C13D 12-13 12/24/2013 MW-C13D(12-13) 3122603	MW-C13D 17-18 12/24/2013 MW-C13D(17-18) 3122603	MW-C13D 20-22 12/24/2013 MW-C13D(20-22) 3122603	MW-C13D DUP 20-22 12/24/2013 DUP-12242013 3122603	MW-C13D 33-35 12/24/2013 MW-C13D(33-35) 3122603	MW-C13D 48-50 1/9/2014 MW-C13D (48-50) 4011018	MW-C14S 9-11 12/11/2013 MW-C14S (9-11)121113 3121215	MW-C14S 12-13 12/11/2013 MW-C14S (12-13)121113 3121215	MW-C14S 17-19 12/11/2013 MW-C14S (17-19)121113 3121215	MW-C14D 23-25 12/19/2013 MW-C14D (23-25)121913 3122028
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
Metals (mg/Kg)																		
Arsenic	7440-38-2	13	16	16	16		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	7440-39-3	350	400	400	10000		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	2.5	4.3	9.3	60		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	7440-47-3	30	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	63	400	1000	3900		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	7439-97-6	0.18	0.81	2.8	5.7		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	7782-49-2	3.9	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	7440-22-4	2	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.029 U
Aroclor 1221	11104-28-2	NL	NL	NL	NL		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.029 U
Aroclor 1232	11141-16-5	NL	NL	NL	NL		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.029 U
Aroclor 1242	53469-21-9	NL	NL	NL	NL		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.029 U
Aroclor 1248	12672-29-6	NL	NL	NL	NL		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.029 U
Aroclor 1254	11097-69-1	NL	NL	NL	NL		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.029 U
Aroclor 1260	11096-82-5	NL	NL	NL	NL		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	**0.045 J**
Aroclor 1262	37324-23-5	NL	NL	NL	NL		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.029 U
Aroclor 1268	11100-14-4	NL	NL	NL	NL		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.029 U
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		< 0.030 U	< 0.030 U	NS	NS	NS	NS	NS	< 0.029 U	< 0.030 U	< 0.030 U	< 0.030 U	**0.045**
Fuel Oil (mg/Kg)																		
TPH (SGT-HEM)	TPH	NL	NL	NL	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Percent Solids																		
Solids, percent	SOLID	NL	NL	NL	NL		**83**	**84**	**85**	**82**	**82**	**81**	**80**	**87**	**83**	**83**	**84**	**86**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C14D 33-35 12/19/2013 MW-C14D (33-35)121913 3122028	MW-C14D 51-52 12/23/2013 MW-C14D (51-52) 3122406	MW-C15D 1-5 8/8/2015 MW-C15D (1-5)080815 5081015	MW-C15D 10-14 8/9/2015 DUPE-080915 5081015	MW-C15D 10-14 8/9/2015 MW-C15D (10-14)080915 5081015	MW-C15D 14-15 8/9/2015 MW-C15D (14-15)080915 5081015	MW-C15D 25-30 8/9/2015 MW-C15D (25-30)080915 5081015	MW-C16D 1-5 8/10/2015 MW-C16D (1-5)081015 5081208	MW-C16D 15-20 8/11/2015 MW-C16D (15-20)081115 5081208	MW-C16D 50-55 8/11/2015 MW-C16D (50-55)081115 5081208	MW-C17D 1-5 8/18/2015 MW-C17D (1-5)081815 5082022	MW-C17D 15-20 8/19/2015 MW-C17D (15-20)081915 5082022
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
BTEX mg/Kg																		
Benzene	71-43-2	0.06	4.8	44	89		< 0.0014 U	< 0.0012 U	NS	< 0.048 U	< 0.00097 U	< 0.079 U	**0.1**	NS	< 0.00095 U	< 0.0011 U	NS	< 0.00095 U
Ethylbenzene	100-41-4	1	41	390	780		< 0.0014 U	< 0.0012 U	NS	< 0.097 U	< 0.00097 U	**5.7 J**	**1.4 J**	NS	< 0.00095 U	< 0.0011 U	NS	< 0.00095 U
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		< 0.0014 U	< 0.0012 U	NS	< 0.097 U	< 0.00097 U	**1.5 J**	**0.83 J**	NS	< 0.00095 UJ	< 0.0011 UJ	NS	< 0.00095 U
o-Xylene	95-47-6	NL	NL	NL	NL		< 0.0014 U	< 0.0012 U	NS	< 0.097 U	< 0.00097 U	**0.57**	**0.22**	NS	< 0.00095 U	< 0.0011 U	NS	< 0.00095 U
Toluene	108-88-3	0.7	100	500	1000		< 0.0014 U	< 0.0012 U	NS	< 0.097 U	< 0.00097 U	< 0.16 U	< 0.11 U	NS	< 0.00095 U	< 0.0011 U	NS	< 0.00095 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		< 0.0014 U	< 0.0012 U	NS	< 0.097 U	< 0.00097 U	**2.07 J**	**1.05**	NS	< 0.00095 UJ	< 0.0011 UJ	NS	< 0.00095 U
Total BTEX		NL	NL	NL	NL		ND	ND	NS	ND	ND	**7.77**	**2.55**	NS	ND	ND	NS	ND
VOC (mg/Kg)																		
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 UJ	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 UJ	< 0.0022 UJ	NS	< 0.0019 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 0.0028 U	< 0.0024 UJ	NS	< 0.097 U	< 0.0019 UJ	< 0.16 U	< 0.11 U	NS	< 0.0019 UJ	< 0.0022 UJ	NS	< 0.0019 U
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.0028 U	< 0.0024 U	NS	< 0.048 U	< 0.0019 U	< 0.079 U	< 0.056 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	NS	R	R	R	R	NS	R	R	NS	R
2-Butanone	78-93-3	0.12	100	500	1000		R	R	NS	R	R	R	R	NS	R	R	NS	R
2-Hexanone	591-78-6	NL	NL	NL	NL		< 0.0028 U	R	NS	R	< 0.0019 UJ	R	R	NS	< 0.0019 UJ	< 0.0022 UJ	NS	< 0.0019 U
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 0.0028 U	< 0.0024 UJ	NS	< 0.097 UJ	< 0.0019 U	< 0.16 UJ	< 0.11 UJ	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Acetone	67-64-1	0.05	100	500	1000		R	R	NS	< 0.48 U	R	< 0.79 U	< 0.56 U	NS	R	R	NS	**0.065 J**
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Bromoform	75-25-2	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Bromomethane	74-83-9	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 UJ	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Chlorobenzene	108-90-7	1.1	100	500	1000		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Chloroform	67-66-3	0.37	49	350	700		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Cyclohexane	110-82-7	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Isopropylbenzene	98-82-8	NL	NL	NL	NL		< 0.0014 U	< 0.0012 U	NS	< 0.097 U	< 0.00097 U	**2.1 J**	**0.75 J**	NS	< 0.00095 U	< 0.0011 U	NS	< 0.00095 U
Methyl acetate	79-20-9	NL	NL	NL	NL		R	R	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.0014 U	< 0.0012 UJ	NS	< 0.048 U	< 0.00097 U	< 0.079 U	< 0.056 U	NS	< 0.00095 U	< 0.0011 U	NS	< 0.00095 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Methylene chloride	75-09-2	0.05	100	500	1000		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Styrene	100-42-5	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	**1.1 J**	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Tetrachloroethene	127-18-4	1.3	19	150	300		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Trichloroethene	79-01-6	0.47	21	200	400		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 0.0028 U	< 0.0024 U	NS	< 0.097 U	< 0.0019 U	< 0.16 U	< 0.11 U	NS	< 0.0019 U	< 0.0022 U	NS	< 0.0019 U
Total VOC		NL	NL	NL	NL		ND	ND	NS	ND	ND	**10.97**	**3.3**	NS	ND	ND	NS	**0.065**

Table F-1
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Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C14D 33-35 12/19/2013 MW-C14D (33-35)121913 3122028	MW-C14D 51-52 12/23/2013 MW-C14D (51-52) 3122406	MW-C15D 1-5 8/8/2015 MW-C15D (1-5)080815 5081015	MW-C15D 10-14 8/9/2015 DUPE-080915 5081015	MW-C15D 10-14 8/9/2015 MW-C15D (10-14)080915 5081015	MW-C15D 14-15 8/9/2015 MW-C15D (14-15)080915 5081015	MW-C15D 25-30 8/9/2015 MW-C15D (25-30)080915 5081015	MW-C16D 1-5 8/10/2015 MW-C16D (1-5)081015 5081208	MW-C16D 15-20 8/11/2015 MW-C16D (15-20)081115 5081208	MW-C16D 50-55 8/11/2015 MW-C16D (50-55)081115 5081208	MW-C17D 1-5 8/18/2015 MW-C17D (1-5)081815 5082022	MW-C17D 15-20 8/19/2015 MW-C17D (15-20)081915 5082022
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
PAH (mg/Kg)																		
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	**200**	**0.65 J-**	NS	< 0.11 U	< 0.041 U	NS	**0.048 J-**
Acenaphthene	83-32-9	20	100	500	1000		< 0.043 U	< 0.042 U	NS	**0.046 J-**	< 0.040 U	**460 J-**	**1.7 J-**	NS	< 0.11 U	< 0.041 U	NS	**0.36 J-**
Acenaphthylene	208-96-8	100	100	500	1000		< 0.043 U	< 0.042 U	NS	**0.061 J-**	< 0.040 UJ	**42 J-**	**0.28 J-**	NS	< 0.11 U	< 0.041 U	NS	< 0.038 UJ
Anthracene	120-12-7	100	100	500	1000		< 0.043 U	< 0.042 U	NS	**0.16**	**0.091 J**	**110 J-**	**2.5 J-**	NS	< 0.11 U	< 0.041 U	NS	**0.42**
Benzo(a)anthracene	56-55-3	1	1	5.6	11		< 0.043 U	< 0.042 U	NS	**0.6**	**0.46**	**62**	**1.7**	NS	**0.31**	< 0.041 U	NS	**1.1**
Benzo(a)pyrene	50-32-8	1	1	1	1.1		< 0.043 U	< 0.042 U	NS	**0.58**	**0.46**	**73**	**2.2**	NS	**0.37**	< 0.041 U	NS	**0.91**
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		< 0.043 U	< 0.042 U	NS	**0.69**	**0.61**	**47**	**2**	NS	**0.46**	< 0.041 U	NS	**1.1**
Benzo(ghi)perylene	191-24-2	100	100	500	1000		< 0.043 U	< 0.042 U	NS	**0.41**	**0.35**	**59**	**1.4**	NS	**0.36**	< 0.041 U	NS	**0.5**
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		< 0.043 U	< 0.042 U	NS	**0.22 J-**	**0.18 J-**	< 40 UJ	**0.39 J-**	NS	**0.13**	< 0.041 U	NS	**0.43**
Chrysene	218-01-9	1	3.9	56	110		< 0.043 U	< 0.042 U	NS	**0.58**	**0.46**	**50**	**1.5**	NS	**0.3**	< 0.041 U	NS	**1.0**
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		< 0.043 U	< 0.042 U	NS	**0.12**	**0.094**	< 40 U	**0.25**	NS	< 0.11 U	< 0.041 U	NS	**0.13**
Fluoranthene	206-44-0	100	100	500	1000		< 0.043 U	< 0.042 U	NS	**1.2 J-**	**0.79 J-**	**180 J-**	**3.7 J-**	NS	**0.48**	< 0.041 U	NS	**2.6 J-**
Fluorene	86-73-7	30	100	500	1000		< 0.043 U	< 0.042 U	NS	**0.087 J-**	**0.056 J-**	**160 J-**	**0.97 J-**	NS	< 0.11 U	< 0.041 U	NS	**0.28 J-**
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		< 0.043 U	< 0.042 U	NS	**0.36**	**0.3**	< 40 U	**0.94**	NS	**0.28**	< 0.041 U	NS	**0.44**
Naphthalene	91-20-3	12	100	500	1000		< 0.011 U	< 0.011 U	NS	**0.59 J-**	**0.52 J-**	**2600 J-**	**7.1 J-**	NS	< 0.029 UJ	**0.14 J-**	NS	**0.083 J-**
Phenanthrene	85-01-8	100	100	500	1000		< 0.043 U	< 0.042 U	NS	**0.66**	**0.47**	**500**	**4.5**	NS	**0.27**	< 0.041 U	NS	**2.1**
Pyrene	129-00-0	100	100	500	1000		< 0.043 U	< 0.042 U	NS	**1.1**	**0.93**	**340**	**5.5**	NS	**0.38**	< 0.041 U	NS	**2.4**
Total PAH		500	NL	NL	NL	500	ND	ND	NS	**7.464**	**5.771**	**4883**	**37.28**	NS	**3.34**	**0.14**	NS	**13.901**
SVOC (mg/Kg)																		
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	**140 J-**	**0.34 J-**	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 UJ	< 0.041 UJ	NS	< 0.038 UJ
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 0.011 U	< 0.011 U	NS	< 0.0094 U	< 0.0099 U	< 10 U	< 0.053 U	NS	< 0.029 U	< 0.010 U	NS	< 0.0095 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 0.011 U	< 0.011 U	NS	< 0.0094 U	< 0.0099 U	< 10 U	< 0.053 U	NS	< 0.029 U	< 0.010 U	NS	< 0.0095 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 0.21 U	< 0.21 U	NS	< 0.19 U	< 0.20 U	< 200 U	< 1.1 U	NS	< 0.57 U	< 0.21 U	NS	< 0.19 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 UJ	< 0.041 UJ	NS	< 0.038 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 UJ	< 0.041 UJ	NS	< 0.038 UJ
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 0.011 U	< 0.011 U	NS	< 0.0094 UJ	< 0.0099 UJ	< 10 U	< 0.053 UJ	NS	< 0.029 U	< 0.010 U	NS	< 0.0095 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 UJ	< 0.041 UJ	NS	< 0.038 UJ
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 UJ	< 0.041 UJ	NS	< 0.038 UJ
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 0.21 U	< 0.21 U	NS	< 0.19 UJ	< 0.20 UJ	< 200 UJ	< 1.1 UJ	NS	< 0.57 U	< 0.21 U	NS	< 0.19 UJ
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 UJ
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 UJ	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 0.020 U	< 0.020 U	NS	< 0.0094 UJ	< 0.0099 UJ	< 10 UJ	< 0.053 UJ	NS	< 0.029 UJ	< 0.010 UJ	NS	< 0.0095 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 U	< 40 UJ	< 0.21 UJ	NS	< 0.11 U	< 0.041 U	NS	< 0.038 UJ
4-Methylphenol	106-44-5	0.33	100	500	1000		< 0.011 U	< 0.011 U	NS	< 0.0094 U	< 0.0099 U	< 10 U	< 0.053 U	NS	< 0.029 U	< 0.010 U	NS	**0.021**
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 U	< 0.041 U	NS	< 0.038 UJ
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 0.043 U	< 0.042 UJ	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 U	< 0.041 U	NS	< 0.038 UJ
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 0.011 U	< 0.011 U	NS	< 0.0094 UJ	< 0.0099 UJ	< 10 UJ	< 0.053 UJ	NS	< 0.029 UJ	< 0.010 UJ	NS	< 0.0095 UJ
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	**0.44**	**0.28**	< 40 U	**0.24**	NS	**1.8**	< 0.041 U	NS	**0.23**
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Carbazole	86-74-8	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	**0.044**	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	**0.13**
Dibenzofuran	132-64-9	7	59	350	1000		< 0.011 U	< 0.011 U	NS	**0.053**	**0.033**	< 10 U	**0.12**	NS	< 0.029 U	< 0.010 U	NS	**0.17**
Diethyl phthalate	84-66-2	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		< 0.021 U	< 0.021 U	NS	< 0.0094 U	< 0.0099 U	< 10 U	< 0.053 U	NS	**0.04**	< 0.010 U	NS	< 0.0095 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 UJ
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 0.21 U	< 0.21 U	NS	< 0.073 U	< 0.078 U	< 78 U	< 0.41 U	NS	< 0.23 U	< 0.081 U	NS	< 0.074 U
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Isophorone	78-59-1	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 UJ	< 0.041 UJ	NS	< 0.038 UJ
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 0.011 U	< 0.011 U	NS	< 0.0094 UJ	< 0.0099 UJ	< 10 UJ	< 0.053 UJ	NS	< 0.029 UJ	< 0.010 UJ	NS	< 0.0095 UJ
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 0.043 U	< 0.042 U	NS	< 0.037 UJ	< 0.040 UJ	< 40 UJ	< 0.21 UJ	NS	< 0.11 UJ	< 0.041 UJ	NS	< 0.038 UJ
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 0.21 U	< 0.21 U	NS	< 0.19 U	< 0.20 U	< 200 U	< 1.1 U	NS	< 0.57 U	< 0.21 U	NS	< 0.19 U
Phenol	108-95-2	0.33	100	500	1000		< 0.043 U	< 0.042 U	NS	< 0.037 U	< 0.040 U	< 40 U	< 0.21 U	NS	< 0.11 U	< 0.041 U	NS	< 0.038 U
Total SVOC		NL	NL	NL	NL		ND	ND	NS	**8.001**	**6.084**	**5023**	**37.98**	NS	**5.18**	**0.14**	NS	**14.452**

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C14D 33-35 12/19/2013 MW-C14D (33-35)121913 3122028	MW-C14D 51-52 12/23/2013 MW-C14D (51-52) 3122406	MW-C15D 1-5 8/8/2015 MW-C15D (1-5)080815 5081015	MW-C15D 10-14 8/9/2015 DUPE-080915 5081015	MW-C15D 10-14 8/9/2015 MW-C15D (10-14)080915 5081015	MW-C15D 14-15 8/9/2015 MW-C15D (14-15)080915 5081015	MW-C15D 25-30 8/9/2015 MW-C15D (25-30)080915 5081015	MW-C16D 1-5 8/10/2015 MW-C16D (1-5)081015 5081208	MW-C16D 15-20 8/11/2015 MW-C16D (15-20)081115 5081208	MW-C16D 50-55 8/11/2015 MW-C16D (50-55)081115 5081208	MW-C17D 1-5 8/18/2015 MW-C17D (1-5)081815 5082022	MW-C17D 15-20 8/19/2015 MW-C17D (15-20)081915 5082022
		Unrestricted Use	Restricted Use															
			Restricted Residential	Commercial	Industrial													
Metals (mg/Kg)																		
Arsenic	7440-38-2	13	16	16	16		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	7440-39-3	350	400	400	10000		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	7440-43-9	2.5	4.3	9.3	60		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	7440-47-3	30	180	1500	6800		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	7439-92-1	63	400	1000	3900		NS	NS	**150**	NS	NS	NS	NS	**15**	NS	NS	**18**	NS
Mercury	7439-97-6	0.18	0.81	2.8	5.7		NS	NS										
Selenium	7782-49-2	3.9	180	1500	6800		NS	NS										
Silver	7440-22-4	2	180	1500	6800		NS	NS										
PCBs (mg/Kg)																		
Aroclor 1016	12674-11-2	NL	NL	NL	NL		< 0.032 U	< 0.032 U	< 0.028 U	< 0.028 U	< 0.030 U	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	< 0.026 U	< 0.028 U
Aroclor 1221	11104-28-2	NL	NL	NL	NL		< 0.032 U	< 0.032 U	< 0.028 U	< 0.028 U	< 0.030 U	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	< 0.026 U	< 0.028 U
Aroclor 1232	11141-16-5	NL	NL	NL	NL		< 0.032 U	< 0.032 U	< 0.028 U	< 0.028 U	< 0.030 U	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	< 0.026 U	< 0.028 U
Aroclor 1242	53469-21-9	NL	NL	NL	NL		< 0.032 U	< 0.032 U	< 0.028 U	< 0.028 U	< 0.030 U	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	< 0.026 U	< 0.028 U
Aroclor 1248	12672-29-6	NL	NL	NL	NL		< 0.032 U	< 0.032 U	< 0.028 U	< 0.028 U	< 0.030 U	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	< 0.026 U	< 0.028 U
Aroclor 1254	11097-69-1	NL	NL	NL	NL		< 0.032 U	< 0.032 U	< 0.028 U	< 0.028 U	< 0.030 U	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	< 0.026 U	< 0.028 U
Aroclor 1260	11096-82-5	NL	NL	NL	NL		< 0.032 U	< 0.032 U	**0.28**	**0.095**	**0.048**	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	**0.34**	**0.05**
Aroclor 1262	37324-23-5	NL	NL	NL	NL		< 0.032 U	< 0.032 U	< 0.028 U	< 0.028 U	< 0.030 U	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	< 0.026 U	< 0.028 U
Aroclor 1268	11100-14-4	NL	NL	NL	NL		< 0.032 U	< 0.032 U	< 0.028 U	< 0.028 U	< 0.030 U	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	< 0.026 U	< 0.028 U
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		< 0.032 U	< 0.032 U	**0.28**	**0.095**	**0.048**	< 0.037 U	< 0.032 U	< 0.027 U	< 0.029 U	< 0.031 U	**0.34**	**0.05**
Fuel Oil (mg/Kg)																		
TPH (SGT-HEM)	TPH	NL	NL	NL	NL		NS	NS										
Percent Solids																		
Solids, percent	SOLID	NL	NL	NL	NL		**78**	**79**	**89**	**89**	**84**	**67**	**79**	**91**	**87**	**81**	**95**	**88**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the
quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the
associated numerical value represents its approximate concentration.

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C17D 52-55 8/19/2015 MW-C17D (52-55)081915 5082022	MW-4D 8-10 7/26/2013 MW-4D(8-10)072613 3072613	MW-4D 11-13 7/26/2013 MW-4D(11-13)072613 3072613	MW-4D 15-17 7/26/2013 MW-4D(15-17)072613 3072613	MW-4D 37-39 7/26/2013 MW-4D(37-39)072613 3072613	MW-20D 0.5-1 5/21/2013 MW-20D (0.5-1)052113 3052217	MW-20D 12-13 7/18/2013 MW-20D (12-13)071813 3071912	MW-20D 17-18 7/18/2013 MW-20D (17-18)071813 3071912	MW-20D 39-41 7/19/2013 MW-20D (39-41)071813 3071912	MW-20D DUP 39-41 7/19/2013 DUPLICATE4-071813 3071912
		Unrestricted Use	Restricted Use Restricted Residential	Restricted Use Commercial	Restricted Use Industrial											
BTEX mg/Kg																
Benzene	71-43-2	0.06	4.8	44	89		< 0.0011 U	**0.0027**	< 0.0013 U	< 0.12 U	< 0.0015 U	< 0.0012 U	< 0.0015 U	< 0.0014 U	< 0.0015 U	< 0.0015 U
Ethylbenzene	100-41-4	1	41	390	780		< 0.0011 U	**0.038**	< 0.0013 U	< 0.24 U	< 0.0015 U	< 0.0012 U	< 0.0015 U	< 0.0014 U	< 0.0015 U	< 0.0015 U
m&p-Xylene	1330-20-7-m,p	NL	NL	NL	NL		< 0.0011 U	**0.0061**	< 0.0013 U	< 0.24 U	< 0.0015 U	< 0.0012 U	< 0.0015 UJ	< 0.0014 UJ	< 0.0015 UJ	< 0.0015 UJ
o-Xylene	95-47-6	NL	NL	NL	NL		< 0.0011 U	**0.015**	< 0.0013 U	< 0.24 U	< 0.0015 U	< 0.0012 U	< 0.0015 U	< 0.0014 U	< 0.0015 U	< 0.0015 U
Toluene	108-88-3	0.7	100	500	1000		< 0.0011 U	< 0.0015 U	< 0.0013 U	< 0.24 U	< 0.0015 U	< 0.0012 U	< 0.0015 U	< 0.0014 U	< 0.0015 U	< 0.0015 U
Xylenes (total)	1330-20-7	0.26	100	500	1000		< 0.0011 U	**0.0211**	< 0.0013 U	< 0.24 U	< 0.0015 U	< 0.0012 U	< 0.0015 UJ	< 0.0014 UJ	< 0.0015 UJ	< 0.0015 UJ
Total BTEX		NL	NL	NL	NL		ND	**0.0618**	ND	ND	ND	ND	ND	ND	ND	ND
VOC (mg/Kg)																
1,1,1-Trichloroethane	71-55-6	0.68	100	500	1000		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
1,1,2-Trichloroethane	79-00-5	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
1,1-Dichloroethane	75-34-3	0.27	26	240	480		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
1,1-Dichloroethene	75-35-4	0.33	100	500	1000		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
1,2,3-Trichlorobenzene	87-61-6	NL	NL	NL	NL		< 0.0023 U	< 0.0029 UJ	< 0.0025 UJ	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
1,2,4-Trichlorobenzene	120-82-1	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 UJ	< 0.0031 U	< 0.0025 UJ	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
1,2-Dibromoethane	106-93-4	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
1,2-Dichlorobenzene	95-50-1	1.1	100	500	1000		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
1,2-Dichloroethane	107-06-2	0.02	3.1	30	60		< 0.0023 U	< 0.0015 U	< 0.0013 U	< 0.12 U	< 0.0015 U	< 0.0025 U	< 0.0015 U	< 0.0014 U	< 0.0015 UJ	< 0.0015 U
1,2-Dichloropropane	78-87-5	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
1,3-Dichlorobenzene	541-73-1	2.4	49	280	560		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
1,4-Dichlorobenzene	106-46-7	1.8	13	130	250		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
1,4-Dioxane	123-91-1	0.1	13	130	250		R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	0.12	100	500	1000		R	R	R	< 0.24 U	R	< 0.0025 UJ	R	R	R	R
2-Hexanone	591-78-6	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	R	< 0.0025 UJ	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
4-Methyl-2-pentanone	108-10-1	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 UJ	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Acetone	67-64-1	0.05	100	500	1000		R	R	**0.21 J**	< 2.4 U	R	R	R	R	R	R
Bromochloromethane	74-97-5	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Bromodichloromethane	75-27-4	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Bromoform	75-25-2	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Bromomethane	74-83-9	NL	NL	NL	NL		< 0.0023 U	< 0.0029 UJ	< 0.0025 UJ	< 0.24 UJ	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Carbon disulfide	75-15-0	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	**0.003**	< 0.0028 U	< 0.0031 U	< 0.0031 U
Carbon tetrachloride	56-23-5	0.76	2.4	22	44		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
Chlorobenzene	108-90-7	1.1	100	500	1000		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 UJ	< 0.0031 U
Chloroethane	75-00-3	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Chloroform	67-66-3	0.37	49	350	700		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Chloromethane	74-87-3	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 UJ	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
cis-1,2-Dichloroethene	156-59-2	0.25	100	500	1000		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Cyclohexane	110-82-7	NL	NL	NL	NL		< 0.0023 U	**0.0061 J**	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
Dibromochloromethane	124-48-1	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Dichlorodifluoromethane	75-71-8	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Isopropylbenzene	98-82-8	NL	NL	NL	NL		< 0.0011 U	**0.036**	< 0.0013 U	< 0.24 U	< 0.0015 U	< 0.0012 U	< 0.0015 U	< 0.0014 U	< 0.0015 U	< 0.0015 U
Methyl acetate	79-20-9	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 UJ	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Methyl tert-butyl ether	1634-04-4	0.93	100	500	1000		< 0.0011 U	< 0.0015 U	< 0.0013 U	< 0.12 U	< 0.0015 U	< 0.0012 U	< 0.0015 U	< 0.0014 U	< 0.0015 U	< 0.0015 U
Methylcyclohexane	108-87-2	NL	NL	NL	NL		< 0.0023 U	**0.021**	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
Methylene chloride	75-09-2	0.05	100	500	1000		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Styrene	100-42-5	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Tetrachloroethene	127-18-4	1.3	19	150	300		< 0.0023 U	< 0.0029 UJ	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
trans-1,2-Dichloroethene	156-60-5	0.19	100	500	1000		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	NL	NL		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Trichloroethene	79-01-6	0.47	21	200	400		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 UJ	< 0.0028 UJ	< 0.0031 UJ	< 0.0031 UJ
Trichlorofluoromethane	75-69-4	NL	NL	NL	NL		< 0.0023 U	< 0.0029 UJ	< 0.0025 UJ	< 0.24 UJ	< 0.0031 U	R	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Vinyl chloride	75-01-4	0.02	0.9	13	27		< 0.0023 U	< 0.0029 U	< 0.0025 U	< 0.24 U	< 0.0031 U	< 0.0025 U	< 0.0029 U	< 0.0028 U	< 0.0031 U	< 0.0031 U
Total VOC		NL	NL	NL	NL		ND	**0.1249**	**0.21**	ND	ND	ND	**0.003**	ND	ND	ND

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C17D 52-55 8/19/2015 MW-C17D (52-55)081915 5082022	MW-4D 8-10 7/26/2013 MW-4D(8-10)072613 3072613	MW-4D 11-13 7/26/2013 MW-4D(11-13)072613 3072613	MW-4D 15-17 7/26/2013 MW-4D(15-17)072613 3072613	MW-4D 37-39 7/26/2013 MW-4D(37-39)072613 3072613	MW-20D 0.5-1 5/21/2013 MW-20D (0.5-1)052113 3052217	MW-20D 12-13 7/18/2013 MW-20D (12-13)071813 3071912	MW-20D 17-18 7/18/2013 MW-20D (17-18)071813 3071912	MW-20D 39-41 7/19/2013 MW-20D (39-41)071813 3071912	MW-20D DUP 39-41 7/19/2013 DUPLICATE4-071813 3071912
		Unrestricted Use	Restricted Use													
			Restricted Residential	Commercial	Industrial											
PAH (mg/Kg)																
2-Methylnaphthalene	91-57-6	NL	NL	NL	NL		< 0.043 UJ	**0.49**	**3.9**	**81**	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Acenaphthene	83-32-9	20	100	500	1000		< 0.043 UJ	**2.8**	**11**	**150**	**0.10**	**0.069**	< 0.25 U	**0.051**	< 0.044 U	< 0.044 U
Acenaphthylene	208-96-8	100	100	500	1000		< 0.043 UJ	< 0.21 U	< 2.1 U	**26**	< 0.042 U	**0.18**	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Anthracene	120-12-7	100	100	500	1000		< 0.043 U	**0.99**	**16**	**310**	**0.16**	**0.23**	< 0.25 U	**0.11**	< 0.044 U	< 0.044 U
Benzo(a)anthracene	56-55-3	1	1	5.6	11		< 0.043 U	**1.3**	**26**	**380**	**0.26**	**1.3**	**0.64**	**0.29**	< 0.044 U	< 0.044 U
Benzo(a)pyrene	50-32-8	1	1	1	1.1		< 0.043 U	**1.2**	**20**	**290**	**0.18**	**1.3**	**0.61**	**0.23**	< 0.044 U	**0.047**
Benzo(b)fluoranthene	205-99-2	1	1	5.6	11		< 0.043 U	**1.2**	**25**	**350**	**0.22**	**1.7**	**0.71**	**0.28**	< 0.044 U	< 0.044 U
Benzo(ghi)perylene	191-24-2	100	100	500	1000		< 0.043 U	**0.71**	**9.8**	**130**	**0.11**	**0.92**	**0.36**	**0.15**	< 0.044 U	< 0.044 U
Benzo(k)fluoranthene	207-08-9	0.8	3.9	56	110		< 0.043 U	**0.35**	**8.3**	**110**	**0.075**	**0.6**	**0.3**	**0.12**	< 0.044 U	< 0.044 U
Chrysene	218-01-9	1	3.9	56	110		< 0.043 U	**1.1**	**24**	**310**	**0.23**	**1.3**	**0.53**	**0.28**	< 0.044 U	< 0.044 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.56	1.1		< 0.043 U	< 0.21 U	**3.5**	**48**	< 0.042 U	**0.28**	< 0.25 U	**0.051**	< 0.044 U	< 0.044 U
Fluoranthene	206-44-0	100	100	500	1000		< 0.043 UJ	**3.0**	**61**	**910**	**0.50**	**2.1**	**0.86**	**0.49**	< 0.044 U	< 0.044 U
Fluorene	86-73-7	30	100	500	1000		< 0.043 UJ	**0.84**	**9.7**	**210**	**0.10**	**0.055**	< 0.25 U	**0.066**	< 0.044 U	< 0.044 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	5.6	11		< 0.043 U	**0.53**	**9.8**	**130**	**0.093**	**0.82**	**0.35**	**0.14**	< 0.044 U	< 0.044 U
Naphthalene	91-20-3	12	100	500	1000		< 0.011 UJ	**13**	**17**	**180**	**0.16**	**0.061**	< 0.062 U	**0.056**	< 0.011 U	< 0.011 U
Phenanthrene	85-01-8	100	100	500	1000		< 0.043 U	**4.4**	**77**	**1300**	**0.71**	**0.78**	**0.56**	**0.49**	< 0.044 U	< 0.044 U
Pyrene	129-00-0	100	100	500	1000		< 0.043 U	**3.9**	**55**	**800**	**0.55**	**2.2**	**1.1**	**0.6**	< 0.044 U	< 0.044 U
Total PAH		500	NL	NL	NL	500	ND	**35.81**	**377**	**5715**	**3.448**	**13.895**	**6.02**	**3.404**	ND	**0.047**
SVOC (mg/Kg)																
1,1'-Biphenyl	92-52-4	NL	NL	NL	NL		< 0.043 U	**0.56**	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2,2'-oxybis(1-Chloropropane)	108-60-1	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2,4-Dichlorophenol	120-83-2	NL	NL	NL	NL		< 0.011 U	< 0.052 U	< 0.51 U	< 6.0 U	< 0.011 U	< 0.0097 U	< 0.062 U	< 0.010 U	< 0.011 U	< 0.011 U
2,4-Dimethylphenol	105-67-9	NL	NL	NL	NL		< 0.011 U	< 0.052 U	< 0.51 U	< 6.0 U	< 0.011 U	< 0.0097 U	< 0.062 U	< 0.010 U	< 0.011 U	< 0.011 U
2,4-Dinitrophenol	51-28-5	NL	NL	NL	NL		< 0.21 U	< 1.0 U	< 10 U	< 120 U	< 0.21 U	< 0.19 U	< 1.2 U	< 0.20 U	< 0.22 U	< 0.22 U
2,4-Dinitrotoluene	121-14-2	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2,6-Dinitrotoluene	606-20-2	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2-Chloronaphthalene	91-58-7	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2-Chlorophenol	95-57-8	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2-Methylphenol	95-48-7	0.33	100	500	1000		< 0.011 U	< 0.052 U	< 0.51 U	< 6.0 U	< 0.011 U	< 0.0097 U	< 0.062 U	< 0.010 U	< 0.011 U	< 0.011 U
2-Nitroaniline	88-74-4	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
2-Nitrophenol	88-75-5	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
3-Nitroaniline	99-09-2	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	NL	NL		< 0.21 UJ	< 1.0 U	< 10 U	< 120 U	< 0.21 U	< 0.19 U	< 1.2 U	< 0.041 U	< 0.044 U	< 0.044 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
4-Chloroaniline	106-47-8	NL	NL	NL	NL		< 0.011 U	< 0.099 U	< 0.97 U	< 11 U	< 0.020 U	< 0.018 U	< 0.12 U	< 0.019 U	< 0.021 U	< 0.021 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
4-Methylphenol	106-44-5	0.33	100	500	1000		< 0.011 U	**0.12**	< 0.51 U	< 6.0 U	< 0.011 U	< 0.0097 U	< 0.062 U	< 0.010 U	< 0.011 U	< 0.011 U
4-Nitroaniline	100-01-6	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
4-Nitrophenol	100-02-7	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Acetophenone	98-86-2	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Atrazine	1912-24-9	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Benzaldehyde	100-52-7	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
bis(2-Chloroethoxy)methane	111-91-1	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
bis(2-Chloroethyl) ether	111-44-4	NL	NL	NL	NL		< 0.011 UJ	< 0.052 U	< 0.51 U	< 6.0 U	< 0.011 U	< 0.0097 U	< 0.062 U	< 0.010 U	< 0.011 U	< 0.011 U
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	NL		**0.087**	< 0.21 U	< 2.1 U	< 24 U	< 0.093 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Butyl benzyl phthalate	85-68-7	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Caprolactam	105-60-2	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Carbazole	86-74-8	NL	NL	NL	NL		< 0.043 U	< 0.21 U	**6.4**	**130**	**0.058**	**0.047**	< 0.25 U	**0.042**	< 0.044 U	< 0.044 U
Dibenzofuran	132-64-9	7	59	350	1000		< 0.011 U	< 0.052 U	**6.9**	**150**	**0.07**	**0.045**	< 0.062 U	**0.039**	< 0.011 U	< 0.011 U
Diethyl phthalate	84-66-2	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Dimethyl phthalate	131-11-3	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	**0.59 J**	< 0.039 U	< 0.25 U	**0.058 J**	**0.064 J**	< 0.052 U
Di-n-butyl phthalate	84-74-2	NL	NL	NL	NL		**0.023**	< 0.10 U	< 1.0 U	< 12 U	< 0.021 U	< 0.019 U	< 0.12 U	< 0.020 U	< 0.022 U	< 0.022 U
Di-n-octyl phthalate	117-84-0	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Hexachlorobenzene	118-74-1	0.33	1.2	6	12		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Hexachlorobutadiene	87-68-3	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	NL	NL		< 0.084 U	< 1.0 UJ	< 10 UJ	< 120 UJ	< 0.21 UJ	< 0.039 UJ	< 1.2 U	< 0.20 U	< 0.22 U	< 0.22 U
Hexachloroethane	67-72-1	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Isophorone	78-59-1	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Nitrobenzene	98-95-3	NL	NL	NL	NL		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
N-Nitrosodi-n-propylamine	621-64-7	NL	NL	NL	NL		< 0.011 UJ	< 0.052 U	< 0.51 U	< 6.0 U	< 0.011 U	< 0.0097 U	< 0.062 U	< 0.010 U	< 0.011 U	< 0.011 U
N-Nitrosodiphenylamine	86-30-6	NL	NL	NL	NL		< 0.043 UJ	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Pentachlorophenol	87-86-5	0.8	6.7	6.7	55		< 0.21 U	< 1.0 U	< 10 U	< 120 U	< 0.21 U	< 0.19 U	< 1.2 U	< 0.20 U	< 0.22 U	< 0.22 U
Phenol	108-95-2	0.33	100	500	1000		< 0.043 U	< 0.21 U	< 2.1 U	< 24 U	< 0.042 U	< 0.039 U	< 0.25 U	< 0.041 U	< 0.044 U	< 0.044 U
Total SVOC		NL	NL	NL	NL		**0.11**	**36.49**	**390.3**	**5995**	**4.166**	**13.987**	**6.02**	**3.543**	**0.064**	**0.047**

Table F-1
Summary of Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Depth Sample Date Sample ID SDG	CAS #	NYSDEC Part 375-6 Soil Cleanup Objectives				CP-51 Use Cleanup Objectives	MW-C17D 52-55 8/19/2015 MW-C17D (52-55)081915 5082022	MW-4D 8-10 7/26/2013 MW-4D(8-10)072613 3072613	MW-4D 11-13 7/26/2013 MW-4D(11-13)072613 3072613	MW-4D 15-17 7/26/2013 MW-4D(15-17)072613 3072613	MW-4D 37-39 7/26/2013 MW-4D(37-39)072613 3072613	MW-20D 0.5-1 5/21/2013 MW-20D (0.5-1)052113 3052217	MW-20D 12-13 7/18/2013 MW-20D (12-13)071813 3071912	MW-20D 17-18 7/18/2013 MW-20D (17-18)071813 3071912	MW-20D 39-41 7/19/2013 MW-20D (39-41)071813 3071912	MW-20D DUP 39-41 7/19/2013 DUPLICATE4-071813 3071912
		Unrestricted Use	Restricted Use													
			Restricted Residential	Commercial	Industrial											
Metals (mg/Kg)																
Arsenic	7440-38-2	13	16	16	16		NS	NS	NS	NS	NS	**5.9**	NS	NS	NS	NS
Barium	7440-39-3	350	400	400	10000		NS	NS	NS	NS	NS	**88**	NS	NS	NS	NS
Cadmium	7440-43-9	2.5	4.3	9.3	60		NS	NS	NS	NS	NS	< 0.70 U	NS	NS	NS	NS
Chromium	7440-47-3	30	180	1500	6800		NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS
Lead	7439-92-1	63	400	1000	3900		NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS
Mercury	7439-97-6	0.18	0.81	2.8	5.7			NS	NS	NS	NS	**0.38**	NS	NS	NS	NS
Selenium	7782-49-2	3.9	180	1500	6800			NS	NS	NS	NS	< 2.1 U	NS	NS	NS	NS
Silver	7440-22-4	2	180	1500	6800			NS	NS	NS	NS	< 1.7 U	NS	NS	NS	NS
PCBs (mg/Kg)																
Aroclor 1016	12674-11-2	NL	NL	NL	NL		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1221	11104-28-2	NL	NL	NL	NL		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1232	11141-16-5	NL	NL	NL	NL		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1242	53469-21-9	NL	NL	NL	NL		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1248	12672-29-6	NL	NL	NL	NL		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1254	11097-69-1	NL	NL	NL	NL		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1260	11096-82-5	NL	NL	NL	NL		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1262	37324-23-5	NL	NL	NL	NL		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1268	11100-14-4	NL	NL	NL	NL		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Polychlorinated biphenyls	1336-36-3	0.1	1	1	25		< 0.032 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fuel Oil (mg/Kg)																
TPH (SGT-HEM)	TPH	NL	NL	NL	NL			NS	NS	NS	NS	NS	NS	NS	NS	NS
Percent Solids																
Solids, percent	SOLID	NL	NL	NL	NL		**78**	**80**	**73**	**84**	**79**	**86**	**81**	**82**	**75**	**76**

Notes:
ND = Non Detected
NL = No Limit
NS = Not Sampled
mg/Kg = milligram per kilogram
Blue highlighted values exceed NYSDEC Part 375-6 Unrestricted Use Cleanup Objectives
Green highlighted values exceed NYSDEC Part 375-6 Restricted Residential Use Cleanup Objectives
Orange highlighted values exceed NYSDEC Part 375-6 Commercial Use Cleanup Objectives
Purple highlighted values exceed NYSDEC Part 375-6 Industrial Use Cleanup Objectives
Red highlighted values exceed the NYSDEC CP-51 Alternative Criterion for total PAHs of 500 mg/kg.
Bold = Detected
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
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
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table F-2
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

AECOM

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-20D 8/22/2013 MW-20D-082213 3082308	MW-4D 8/22/2013 DUP-082213 3082308	MW-4D 8/22/2013 MW-4D-082213 3082308	MW-C10D 8/21/2013 MW-C10D-082113 3082122	MW-C10S 8/21/2013 DUP 8/21/13 3082122	MW-C10S 8/21/2013 MW-C10S-082113 3082122	MW-C11D 8/23/2013 MW-C11D-082313 3082308	MW-C11S 8/23/2013 MW-C11S-082313 3082616	MW-C12D 8/23/2013 MW-C12D-082313 3082616	MW-C12S 8/23/2013 MW-C12S-082313 3082616	MW-C13D 2/7/2014 MW-C-13D-020714 4020742	MW-C13S 2/7/2014 MW-C-13S-020714 4020742	MW-C14D 2/4/2014 MW-C-14D-020414 4020416	MW-C14S 2/4/2014 DUP-020414 4020416
BTEX (ug/L)																
Benzene	71-43-2	1	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	**2.8**	< 0.50 U	**0.77**	< 0.50 U	< 0.50 U	< 0.50 U
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.1**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m&p-Xylene	1330-20-7-m,p	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.6**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.2**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.6**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Total BTEX			*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	***6.7***	*ND*	***0.77***	*ND*	*ND*	*ND*
VOCs (ug/L)																
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NL	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U
2-Hexanone	591-78-6	50	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-pentanone	108-10-1	NL	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Acetone	67-64-1	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ	< 10 U	< 10 U
Bromochloromethane	74-97-5	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.7**	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl acetate	79-20-9	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether	1634-04-4	10	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	**1.0**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Methylcyclohexane	108-87-2	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methylene chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Total VOCs			*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	***1.0***	***6.7***	*ND*	***0.77***	*ND*	***1.7***	*ND*

Table F-2
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-20D 8/22/2013 MW-20D-082213 3082308	MW-4D 8/22/2013 DUP-082213 3082308	MW-4D 8/22/2013 MW-4D-082213 3082308	MW-C10D 8/21/2013 MW-C10D-082113 3082122	MW-C10S 8/21/2013 DUP 8/21/13 3082122	MW-C10S 8/21/2013 MW-C10S-082113 3082122	MW-C11D 8/23/2013 MW-C11D-082313 3082308	MW-C11S 8/23/2013 MW-C11S-082313 3082616	MW-C12D 8/23/2013 MW-C12D-082313 3082616	MW-C12S 8/23/2013 MW-C12S-082313 3082616	MW-C13D 2/7/2014 MW-C-13D-020714 4020742	MW-C13S 2/7/2014 MW-C-13S-020714 4020742	MW-C14D 2/4/2014 MW-C-14D-020414 4020416	MW-C14S 2/4/2014 DUP-020414 4020416
PAHs (ug/L)																
2-Methylnaphthalene	91-57-6	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Acenaphthene	83-32-9	20	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	**5.2**	**6.2**	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Acenaphthylene	208-96-8	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Anthracene	120-12-7	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Benzo(a)anthracene	56-55-3	0.002	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Benzo(a)pyrene	50-32-8	0	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Benzo(b)fluoranthene	205-99-2	0.002	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Benzo(ghi)perylene	191-24-2	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Benzo(k)fluoranthene	207-08-9	0.002	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Chrysene	218-01-9	0.002	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Dibenzo(a,h)anthracene	53-70-3	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Fluoranthene	206-44-0	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Fluorene	86-73-7	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Naphthalene	91-20-3	10	< 0.52 U	< 0.51 U	< 0.50 U	**9.5**	< 0.52 U	< 0.50 U	< 0.56 U	< 0.53 U	**4.3**	< 0.53 U	**4.9**	< 0.54 U	**3.5**	< 0.50 U
Phenanthrene	85-01-8	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Pyrene	129-00-0	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Total PAHs			*ND*	*ND*	*ND*	***9.5***	***5.2***	***6.2***	*ND*	*ND*	***4.3***	*ND*	***4.9***	*ND*	***3.5***	*ND*
SVOCs (ug/L)																
1,1'-Biphenyl	92-52-4	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2,2'-oxybis(1-Chloropropane)	108-60-1	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2,4,5-Trichlorophenol	95-95-4	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2,4,6-Trichlorophenol	88-06-2	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2,4-Dichlorophenol	120-83-2	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2,4-Dimethylphenol	105-67-9	50	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U	< 0.53 U	< 0.53 U	< 0.53 U	**1.8**	< 0.54 U	< 0.56 U	< 0.50 U
2,4-Dinitrophenol	51-28-5	10	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 10 U
2,4-Dinitrotoluene	121-14-2	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2,6-Dinitrotoluene	606-20-2	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2-Chloronaphthalene	91-58-7	10	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2-Chlorophenol	95-57-8	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2-Methylphenol	95-48-7	NL	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.56 U	< 0.54 U	< 0.56 U	< 0.50 U
2-Nitroaniline	88-74-4	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2-Nitrophenol	88-75-5	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
3,3'-Dichlorobenzidine	91-94-1	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
3-Nitroaniline	99-09-2	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 10 U
4-Bromophenyl phenyl ether	101-55-3	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
4-Chloro-3-methylphenol	59-50-7	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
4-Chloroaniline	106-47-8	5	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.56 U	< 0.54 U	< 0.56 U	< 0.50 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
4-Methylphenol	106-44-5	NL	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.56 U	**1.1 J**	< 0.56 U	< 0.50 U
4-Nitroaniline	100-01-6	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
4-Nitrophenol	100-02-7	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 UJ	< 2.2 U	< 2.0 U
Acetophenone	98-86-2	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Atrazine	1912-24-9	7.5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Benzaldehyde	100-52-7	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
bis(2-Chloroethoxy)methane	111-91-1	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
bis(2-Chloroethyl) ether	111-44-4	1	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.56 U	< 0.54 U	< 0.56 U	< 0.50 U
bis(2-Ethylhexyl) phthalate	117-81-7	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Butyl benzyl phthalate	85-68-7	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Caprolactam	105-60-2	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Carbazole	86-74-8	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Dibenzofuran	132-64-9	NL	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.56 U	< 0.54 U	< 0.56 U	< 0.50 U
Diethyl phthalate	131-11-3	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Dimethyl phthalate	84-66-2	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Di-n-butyl phthalate	84-74-2	50	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.56 U	< 0.54 U	< 0.56 U	< 0.50 U
Di-n-octyl phthalate	117-84-0	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Hexachlorobenzene	118-74-1	0.4	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Hexachlorobutadiene	87-68-3	0.5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Hexachlorocyclopentadiene	77-47-4	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Hexachloroethane	67-72-1	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Isophorone	78-59-1	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Nitrobenzene	98-95-3	0.4	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
N-Nitrosodi-n-propylamine	621-64-7	50	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.56 U	< 0.54 U	< 0.56 U	< 0.50 U
N-Nitrosodiphenylamine	86-30-6	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Pentachlorophenol	87-86-5	1	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 10 U
Phenol	108-95-2	1	< 2.1 U	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.1 UJ	< 2.0 UJ	< 2.2 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.2 UJ	< 2.2 UJ	< 2.2 U	< 2.0 U
Total SVOCs			*ND*	*ND*	*ND*	***9.5***	***5.2***	***6.2***	*ND*	*ND*	***4.3***	*ND*	***6.7***	***1.1***	***3.5***	*ND*

Table F-2
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-20D 8/22/2013 MW-20D-082213 3082308	MW-4D 8/22/2013 DUP-082213 3082308	MW-4D 8/22/2013 MW-4D-082213 3082308	MW-C10D 8/21/2013 MW-C10D-082113 3082122	MW-C10S 8/21/2013 DUP 8/21/13 3082122	MW-C10S 8/21/2013 MW-C10S-082113 3082122	MW-C11D 8/23/2013 MW-C11D-082313 3082308	MW-C11S 8/23/2013 MW-C11S-082313 3082616	MW-C12D 8/23/2013 MW-C12D-082313 3082616	MW-C12S 8/23/2013 MW-C12S-082313 3082616	MW-C13D 2/7/2014 MW-C-13D-020714 4020742	MW-C13S 2/7/2014 MW-C-13S-020714 4020742	MW-C14D 2/4/2014 MW-C-14D-020414 4020416	MW-C14S 2/4/2014 DUP-020414 4020416
PCBs (ug/L)																
Aroclor 1016	12674-11-2	NL	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.14 U	< 0.26 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.25 UJ	< 0.25 U
Aroclor 1221	11104-28-2	NL	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.14 U	< 0.26 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.25 UJ	< 0.25 U
Aroclor 1232	11141-16-5	NL	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.14 U	< 0.26 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.25 UJ	< 0.25 U
Aroclor 1242	53469-21-9	NL	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.14 U	< 0.26 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.25 UJ	< 0.25 U
Aroclor 1248	12672-29-6	NL	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.14 U	< 0.26 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.25 UJ	< 0.25 U
Aroclor 1254	11097-69-1	NL	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.14 U	< 0.26 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.25 UJ	< 0.25 U
Aroclor 1260	11096-82-5	NL	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.14 U	< 0.26 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.25 UJ	< 0.25 U
Aroclor 1262	37324-23-5	NL	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.14 U	< 0.26 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.25 UJ	< 0.25 U
Aroclor 1268	11100-14-4	NL	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.14 U	< 0.26 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.25 UJ	< 0.25 U
Polychlorinated biphenyls	*1336-36-3*	*0.09*	*< 0.25 U*	*< 0.25 U*	*< 0.25 U*	*< 0.25 U*	*< 0.26 U*	*< 0.25 U*	*< 0.26 U*	*< 0.14 U*	*< 0.26 U*	*< 0.26 U*	*< 0.28 U*	*< 0.27 U*	*< 0.25 UJ*	*< 0.25 U*

Notes:
ug/L = micrograms per liter
Bold value = detected above reporting limit
Gray Highlighted values exceed NYSDEC GW Guidance or Standard Value
NL = Not listed
ND = Not detected
U = Nondetected result. The analyte was analyzed for, but 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
J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, likely to be biased high. The associated numerical value is the approximate concentration of the analyte in the sample.
J- = (Inorganics) The result is an estimated quantity, may be biased low.
deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table F-2
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C14S 2/4/2014 MW-C-14S-020414 4020416	MW-C1D 8/20/2013 MW-C1D-082013 3082122	MW-C1S 8/20/2013 MW-C1S-082013 3082122	MW-C2D 8/21/2013 MW-C2D-082113 3082308	MW-C3D 8/22/2013 MW-C3D-082213 3082308	MW-C4D 8/19/2013 MW-C4D-081913 3082122	MW-C4S 8/19/2013 MW-C4S-081913 3082122	MW-C5D 8/22/2013 MW-C5D-082213 3082308	MW-C5S 8/22/2013 MW-C5S-082213 3082308	MW-C6D 8/20/2013 MW-C6D-082013 3082122	MW-C7D 8/21/2013 MW-C7D-082113 3082308	MW-C7S 8/21/2013 MW-C7S-082113 3082308	MW-C8D 8/22/2013 MW-C8D-082213 3082308	MW-C9D 8/21/2013 MW-C9D-082113 3082122
BTEX (ug/L)																
Benzene	71-43-2	1	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	**0.85**	< 0.50 U	< 0.50 U	< 0.50 U	**32**	< 0.50 U	< 0.50 U	**26**	**0.74**	< 0.50 U
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**6.7**	< 1.0 U	< 1.0 U	**11**	**740**	< 1.0 U	< 1.0 U	**550**	**2.0**	< 1.0 U
m&p-Xylene	1330-20-7-m,p	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**2.6**	< 1.0 U	< 1.0 U	**3.3**	**140**	< 1.0 U	< 1.0 U	**88**	**1.8**	< 1.0 U
o-Xylene	95-47-6	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**2.0**	< 1.0 U	< 1.0 U	**2.9**	**100**	< 1.0 U	< 1.0 U	**59**	**1.7**	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**4.6**	< 1.0 U	< 1.0 U	**6.2**	**240**	< 1.0 U	< 1.0 U	**147**	**3.5**	< 1.0 U
Total BTEX			*ND*	*ND*	*ND*	*ND*	***12.15***	*ND*	*ND*	***17.2***	***1012***	*ND*	*ND*	***723***	***6.24***	*ND*
VOCs (ug/L)																
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 50 U	< 1.0 UJ	< 1.0 U	< 50 U	< 1.0 U	< 1.0 UJ
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 50 UJ	< 1.0 UJ	< 1.0 UJ	< 50 UJ	< 1.0 UJ	< 1.0 UJ
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 25 U	< 0.50 U	< 0.50 U	< 25 U	< 0.50 U	< 0.50 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NL	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	78-93-3	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
2-Hexanone	591-78-6	50	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 50 UJ	< 1.0 UJ	< 1.0 UJ	< 50 UJ	< 1.0 UJ	< 1.0 UJ
4-Methyl-2-pentanone	108-10-1	NL	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 50 UJ	< 1.0 UJ	< 1.0 UJ	< 50 UJ	< 1.0 UJ	< 1.0 UJ
Acetone	67-64-1	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 500 U	< 10 U	< 10 U	< 500 U	< 10 U	< 10 U
Bromochloromethane	74-97-5	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 50 U	< 1.0 UJ	< 1.0 U	< 50 U	< 1.0 U	< 1.0 UJ
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.3**	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Carbon tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.4**	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 50 UJ	< 1.0 U	< 1.0 UJ	< 50 UJ	< 1.0 UJ	< 1.0 U
Cyclohexane	110-82-7	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	**1.8 J**	**1.4**	**59**	< 1.0 UJ	< 1.0 U	< 50 U	< 1.0 U	< 1.0 UJ
Methyl acetate	79-20-9	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether	1634-04-4	10	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	**4.7**	< 0.50 U	< 25 U	< 0.50 U	< 0.50 U	< 25 U	< 0.50 U	< 0.50 U
Methylcyclohexane	108-87-2	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**2.4**	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Methylene chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 50 U	< 1.0 UJ	< 1.0 U	< 50 U	< 1.0 U	< 1.0 UJ
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 50 UJ	< 1.0 U	< 1.0 UJ	< 50 UJ	< 1.0 UJ	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Vinyl chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U
Total VOCs			*ND*	*ND*	*ND*	*ND*	***13.45***	*ND*	***6.5***	***22.4***	***1071***	*ND*	*ND*	***723***	***6.24***	*ND*

Table F-2
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C14S 2/4/2014 MW-C-14S-020414 4020416	MW-C1D 8/20/2013 MW-C1D-082013 3082122	MW-C1S 8/20/2013 MW-C1S-082013 3082122	MW-C2D 8/21/2013 MW-C2D-082113 3082308	MW-C3D 8/22/2013 MW-C3D-082213 3082308	MW-C4D 8/19/2013 MW-C4D-081913 3082122	MW-C4S 8/19/2013 MW-C4S-081913 3082122	MW-C5D 8/22/2013 MW-C5D-082213 3082308	MW-C5S 8/22/2013 MW-C5S-082213 3082308	MW-C6D 8/20/2013 MW-C6D-082013 3082122	MW-C7D 8/21/2013 MW-C7D-082113 3082308	MW-C7S 8/21/2013 MW-C7S-082113 3082308	MW-C8D 8/22/2013 MW-C8D-082213 3082308	MW-C9D 8/21/2013 MW-C9D-082113 3082122
PAHs (ug/L)																
2-Methylnaphthalene	91-57-6	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**6.0**	< 2.2 U	**6.8**	**23**	**710**	< 2.1 U	< 2.1 U	**780**	**10**	< 2.2 U
Acenaphthene	83-32-9	20	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**4.5**	**2.8**	**28**	**46**	**860**	**4.0**	**2.7**	**970**	**13**	< 2.2 U
Acenaphthylene	208-96-8	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**14**	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Anthracene	120-12-7	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	**3.1**	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Benzo(a)anthracene	56-55-3	0.002	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Benzo(a)pyrene	50-32-8	0	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Benzo(b)fluoranthene	205-99-2	0.002	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Benzo(ghi)perylene	191-24-2	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Benzo(k)fluoranthene	207-08-9	0.002	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Chrysene	218-01-9	0.002	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Dibenzo(a,h)anthracene	53-70-3	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Fluoranthene	206-44-0	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	**3.5**	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Fluorene	86-73-7	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**3.6**	< 2.2 U	**11**	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Naphthalene	91-20-3	10	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 U	**110**	**33**	**63**	**530**	**20000**	**8.9**	**25**	**16000**	**310**	< 0.54 U
Phenanthrene	85-01-8	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**3.4**	< 2.2 U	**23**	**12**	< 210 U	< 2.1 U	< 2.1 U	< 220 U	**9.5**	< 2.2 U
Pyrene	129-00-0	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	**5.1**	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Total PAHs			*ND*	*ND*	*ND*	*ND*	***141.5***	***35.8***	***143.5***	***611***	***21570***	***12.9***	***27.7***	***17750***	***342.5***	*ND*
SVOCs (ug/L)																
1,1'-Biphenyl	92-52-4	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**3.1**	< 2.2 U	**3.7**	< 10 U	**270**	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2,2'-oxybis(1-Chloropropane)	108-60-1	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 UJ	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2,4,5-Trichlorophenol	95-95-4	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 UJ	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2,4,6-Trichlorophenol	88-06-2	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 UJ	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2,4-Dichlorophenol	120-83-2	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 UJ	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2,4-Dimethylphenol	105-67-9	50	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 UJ	< 0.52 U	< 0.56 U	< 0.52 U	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	**5.4**	< 0.54 U
2,4-Dinitrophenol	51-28-5	10	< 11 U	< 11 U	< 10 U	< 11 UJ	< 10 U	< 11 U	< 10 U	< 52 U	< 1000 U	< 10 U	< 11 U	< 1100 U	< 31 U	< 11 U
2,4-Dinitrotoluene	121-14-2	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2,6-Dinitrotoluene	606-20-2	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2-Chloronaphthalene	91-58-7	10	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2-Chlorophenol	95-57-8	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 UJ	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2-Methylphenol	95-48-7	NL	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 UJ	< 0.52 U	< 0.56 U	< 0.52 U	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	< 1.5 U	< 0.54 UJ
2-Nitroaniline	88-74-4	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
2-Nitrophenol	88-75-5	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 UJ	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
3,3'-Dichlorobenzidine	91-94-1	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
3-Nitroaniline	99-09-2	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	< 11 U	< 11 U	< 10 U	< 11 UJ	< 10 U	< 11 U	< 10 U	< 52 U	< 1000 U	< 10 U	< 11 U	< 1100 U	< 31 U	< 11 U
4-Bromophenyl phenyl ether	101-55-3	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
4-Chloro-3-methylphenol	59-50-7	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 UJ	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
4-Chloroaniline	106-47-8	5	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 U	< 0.52 U	< 0.56 U	< 0.52 U	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	< 1.5 U	< 0.54 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
4-Methylphenol	106-44-5	NL	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 UJ	< 0.52 U	< 0.56 U	< 0.52 U	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	< 1.5 U	< 0.54 UJ
4-Nitroaniline	100-01-6	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
4-Nitrophenol	100-02-7	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 UJ	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Acetophenone	98-86-2	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Atrazine	1912-24-9	7.5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Benzaldehyde	100-52-7	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
bis(2-Chloroethoxy)methane	111-91-1	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
bis(2-Chloroethyl) ether	111-44-4	1	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 U	< 0.52 U	< 0.56 U	< 0.52 U	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	< 1.5 U	< 0.54 U
bis(2-Ethylhexyl) phthalate	117-81-7	5	< 2.2 U	< 2.2 U	< 2.0 U	**2.8**	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Butyl benzyl phthalate	85-68-7	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Caprolactam	105-60-2	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Carbazole	86-74-8	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Dibenzofuran	132-64-9	NL	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 U	< 0.52 U	< 0.56 U	< 0.52 U	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	< 1.5 U	< 0.54 U
Diethyl phthalate	131-11-3	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Dimethyl phthalate	84-66-2	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Di-n-butyl phthalate	84-74-2	50	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 U	< 0.52 U	< 0.56 U	< 0.52 U	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	< 1.5 U	< 0.54 U
Di-n-octyl phthalate	117-84-0	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Hexachlorobenzene	118-74-1	0.4	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Hexachlorobutadiene	87-68-3	0.5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Hexachlorocyclopentadiene	77-47-4	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Hexachloroethane	67-72-1	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Isophorone	78-59-1	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Nitrobenzene	98-95-3	0.4	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
N-Nitrosodi-n-propylamine	621-64-7	50	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 U	< 0.52 U	< 0.56 U	< 0.52 U	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	< 1.5 U	< 0.54 U
N-Nitrosodiphenylamine	86-30-6	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U
Pentachlorophenol	87-86-5	1	< 11 U	< 11 U	< 10 U	< 11 UJ	< 10 U	< 11 U	< 10 U	< 52 U	< 1000 U	< 10 U	< 11 U	< 1100 U	< 31 U	< 11 U
Phenol	108-95-2	1	< 2.2 U	< 2.2 UJ	< 2.0 UJ	< 2.2 UJ	< 2.1 UJ	< 2.2 UJ	< 2.1 UJ	< 10 UJ	< 210 U	< 2.1 UJ	< 2.1 UJ	< 220 U	< 6.2 UJ	< 2.2 UJ
Total SVOCs			*ND*	*ND*	*ND*	***2.8***	***144.6***	***35.8***	***147.2***	***611***	***21840***	***12.9***	***27.7***	***17750***	***347.9***	*ND*

Table F-2
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C14S 2/4/2014 MW-C-14S-020414 4020416	MW-C1D 8/20/2013 MW-C1D-082013 3082122	MW-C1S 8/20/2013 MW-C1S-082013 3082122	MW-C2D 8/21/2013 MW-C2D-082113 3082308	MW-C3D 8/22/2013 MW-C3D-082213 3082308	MW-C4D 8/19/2013 MW-C4D-081913 3082122	MW-C4S 8/19/2013 MW-C4S-081913 3082122	MW-C5D 8/22/2013 MW-C5D-082213 3082308	MW-C5S 8/22/2013 MW-C5S-082213 3082308	MW-C6D 8/20/2013 MW-C6D-082013 3082122	MW-C7D 8/21/2013 MW-C7D-082113 3082308	MW-C7S 8/21/2013 MW-C7S-082113 3082308	MW-C8D 8/22/2013 MW-C8D-082213 3082308	MW-C9D 8/21/2013 MW-C9D-082113 3082122
PCBs (ug/L)																
Aroclor 1016	12674-11-2	NL	< 0.28 U	< 0.25 U	< 0.25 U	< 0.14 U	< 0.25 U	< 0.27 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 U	< 0.25 U	< 0.25 U
Aroclor 1221	11104-28-2	NL	< 0.28 U	< 0.25 U	< 0.25 U	< 0.14 U	< 0.25 U	< 0.27 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 U	< 0.25 U	< 0.25 U
Aroclor 1232	11141-16-5	NL	< 0.28 U	< 0.25 U	< 0.25 U	< 0.14 U	< 0.25 U	< 0.27 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 U	< 0.25 U	< 0.25 U
Aroclor 1242	53469-21-9	NL	< 0.28 U	< 0.25 U	< 0.25 U	< 0.14 U	< 0.25 U	< 0.27 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 U	< 0.25 U	< 0.25 U
Aroclor 1248	12672-29-6	NL	< 0.28 U	< 0.25 U	< 0.25 U	< 0.14 U	< 0.25 U	< 0.27 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 U	< 0.25 U	< 0.25 U
Aroclor 1254	11097-69-1	NL	< 0.28 U	< 0.25 U	< 0.25 U	< 0.14 U	< 0.25 U	< 0.27 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 U	< 0.25 U	< 0.25 U
Aroclor 1260	11096-82-5	NL	< 0.28 U	< 0.25 U	< 0.25 U	< 0.14 U	< 0.25 U	< 0.27 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 U	< 0.25 U	< 0.25 U
Aroclor 1262	37324-23-5	NL	< 0.28 U	< 0.25 U	< 0.25 U	< 0.14 U	< 0.25 U	< 0.27 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 U	< 0.25 U	< 0.25 U
Aroclor 1268	11100-14-4	NL	< 0.28 U	< 0.25 U	< 0.25 U	< 0.14 U	< 0.25 U	< 0.27 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 UJ	< 0.25 U	< 0.25 U	< 0.25 U
Polychlorinated biphenyls	*1336-36-3*	*0.09*	*< 0.28 U*	*< 0.25 U*	*< 0.25 U*	*< 0.14 U*	*< 0.25 U*	*< 0.27 U*	*< 0.25 U*	*< 0.25 U*	*< 0.25 U*	*< 0.25 U*	*< 0.25 UJ*	*< 0.25 U*	*< 0.25 U*	*< 0.25 U*

Notes:
ug/L = micrograms per liter
Bold value = detected above reporting limit
Gray Highlighted values exceed NYSDEC GW Guidance or Standard Value
NL = Not listed
ND = Not detected
U = Nondetected result. The analyte was analyzed for, but 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
J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, likely to be biased high. The associated numerical value is the approximate concentration of the analyte in the sample.
J- = (Inorganics) The result is an estimated quantity, may be biased low.
deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table F-2
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C15S 9/11/2015 MW-C15 S-091115 5091402	MW-C15S 9/11/2015 DUPE-091115 5091402	MW-C15D 9/11/2015 MW-C15 D-091115 5091402	MW-C16S 9/11/2015 MW-C16 S-091115 5091402	MW-C16D 9/11/2015 MW-C16 D-091115 5091402	MW-C17S 9/16/2015 MW-C17S-091615 5091703	MW-C17D 9/16/2015 MW-C17D-091615 5091703
BTEX (ug/L)									
Benzene	71-43-2	1	**2.7**	**2.9**	**11**	< 0.50 U	**6.8 J+**	< 0.50 UJ	< 0.50 U
Ethylbenzene	100-41-4	5	**71**	**75**	**2.6**	< 1.0 U	**2.6 J+**	< 1.0 UJ	< 1.0 UJ
m&p-Xylene	1330-20-7-m,p	NL	**18**	**19**	**4.0**	< 1.0 U	**3.3 J+**	< 1.0 UJ	< 1.0 U
o-Xylene	95-47-6	NL	**11**	**13**	**2.8**	< 1.0 U	**2.0 J+**	< 1.0 UJ	< 1.0 UJ
Toluene	108-88-3	5	**1.8**	**1.8**	**1.1**	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Xylenes (total)	1330-20-7	5	**29**	**32**	**6.8**	< 1.0 U	**5.3 J+**	< 1.0 UJ	< 1.0 UJ
Total BTEX			***104.5***	***111.7***	***21.5***	*ND*	***14.7***	*ND*	*ND*
VOCs (ug/L)									
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 UJ	< 0.50 UJ
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
1,4-Dioxane	123-91-1	NL	R	R	R	R	R	< 50 U	< 50 UJ
2-Butanone	78-93-3	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
2-Hexanone	591-78-6	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ
4-Methyl-2-pentanone	108-10-1	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ
Acetone	67-64-1	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	**15 J**
Bromochloromethane	74-97-5	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Bromomethane	74-83-9	5	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	**1.6**	< 1.0 U	**1.4 J+**	< 1.0 U	< 1.0 U
Carbon tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Chloroethane	75-00-3	5	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	**4.3**	< 1.0 U	< 1.0 U	< 1.0 U	**2.8**
Chloromethane	74-87-3	5	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	**19**	**21**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Methyl acetate	79-20-9	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Methyl tert-butyl ether	1634-04-4	10	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 UJ	< 0.50 UJ
Methylcyclohexane	108-87-2	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Methylene chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Styrene	100-42-5	5	**2.2**	**2.3**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl chloride	75-01-4	2	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Total VOCs			***125.7***	***135***	***27.4***	*ND*	***16.1***	*ND*	***17.8***

Table F-2
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C15S 9/11/2015 MW-C15 S-091115 5091402	MW-C15S 9/11/2015 DUPE-091115 5091402	MW-C15D 9/11/2015 MW-C15 D-091115 5091402	MW-C16S 9/11/2015 MW-C16 S-091115 5091402	MW-C16D 9/11/2015 MW-C16 D-091115 5091402	MW-C17S 9/16/2015 MW-C17S-091615 5091703	MW-C17D 9/16/2015 MW-C17D-091615 5091703
PAHs (ug/L)									
2-Methylnaphthalene	91-57-6	NL	< 2.2 U	**2.5**	< 2.2 U	< 2.1 U	< 2.2 UJ	< 2.0 U	< 2.0 U
Acenaphthene	83-32-9	20	**78 J**	**120 J**	**2.6**	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Acenaphthylene	208-96-8	NL	**16 J**	**27 J**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Anthracene	120-12-7	50	< 2.2 UJ	**5.0 J**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Benzo(a)anthracene	56-55-3	0.002	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Benzo(a)pyrene	50-32-8	0	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Benzo(b)fluoranthene	205-99-2	0.002	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Benzo(ghi)perylene	191-24-2	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Benzo(k)fluoranthene	207-08-9	0.002	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Chrysene	218-01-9	0.002	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Dibenzo(a,h)anthracene	53-70-3	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Fluoranthene	206-44-0	50	**7.2 J**	**11 J**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Fluorene	86-73-7	50	**11 J**	**22 J**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Naphthalene	91-20-3	10	**210 J**	< 0.56 UJ	< 0.56 U	< 0.53 U	**1.8**	< 0.50 U	< 0.51 U
Phenanthrene	85-01-8	50	< 2.2 U	**3.4**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Pyrene	129-00-0	50	**14**	**19**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Total PAHs			***336.2***	***207.4***	***2.6***	*ND*	***1.8***	*ND*	*ND*
SVOCs (ug/L)									
1,1'-Biphenyl	92-52-4	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 UJ	< 2.0 U	< 2.0 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 UJ	< 2.0 U	< 2.0 U
2,2'-oxybis(1-Chloropropane)	108-60-1	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
2,3,4,6-Tetrachlorophenol	58-90-2	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
2,4,5-Trichlorophenol	95-95-4	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
2,4,6-Trichlorophenol	88-06-2	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
2,4-Dichlorophenol	120-83-2	5	< 0.56 U	< 0.56 U	< 0.56 U	< 0.53 U	< 0.56 U	< 0.50 U	< 0.51 U
2,4-Dimethylphenol	105-67-9	50	< 0.56 U	< 0.56 U	< 0.56 U	< 0.53 U	**1.8**	< 0.50 U	< 0.51 U
2,4-Dinitrophenol	51-28-5	10	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U
2,4-Dinitrotoluene	121-14-2	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
2,6-Dinitrotoluene	606-20-2	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
2-Chloronaphthalene	91-58-7	10	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
2-Chlorophenol	95-57-8	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
2-Methylphenol	95-48-7	NL	< 0.56 U	< 0.56 U	< 0.56 U	< 0.53 U	< 0.56 U	< 0.50 UJ	< 0.51 UJ
2-Nitroaniline	88-74-4	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
2-Nitrophenol	88-75-5	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
3,3'-Dichlorobenzidine	91-94-1	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
3-Nitroaniline	99-09-2	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U
4-Bromophenyl phenyl ether	101-55-3	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
4-Chloro-3-methylphenol	59-50-7	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
4-Chloroaniline	106-47-8	5	< 0.56 U	< 0.56 U	< 0.56 U	< 0.53 U	< 0.56 U	< 0.50 U	< 0.51 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
4-Methylphenol	106-44-5	NL	< 0.56 U	< 0.56 U	< 0.56 U	< 0.53 U	< 0.56 U	< 0.50 U	< 0.51 U
4-Nitroaniline	100-01-6	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
4-Nitrophenol	100-02-7	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Acetophenone	98-86-2	NL	**2.6**	**3.2**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Atrazine	1912-24-9	7.5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Benzaldehyde	100-52-7	NL	< 2.2 UJ	**15**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
bis(2-Chloroethoxy)methane	111-91-1	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
bis(2-Chloroethyl) ether	111-44-4	1	< 0.56 U	< 0.56 U	< 0.56 U	< 0.53 U	< 0.56 U	< 0.50 U	< 0.51 U
bis(2-Ethylhexyl) phthalate	117-81-7	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Butyl benzyl phthalate	85-68-7	50	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Caprolactam	105-60-2	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Carbazole	86-74-8	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Dibenzofuran	132-64-9	NL	< 0.56 U	< 0.56 U	< 0.56 U	< 0.53 U	< 0.56 U	< 0.50 U	< 0.51 U
Diethyl phthalate	131-11-3	50	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Dimethyl phthalate	84-66-2	50	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Di-n-butyl phthalate	84-74-2	50	< 0.56 U	< 0.56 U	< 0.56 U	< 0.53 U	< 0.56 U	< 0.50 U	< 0.51 U
Di-n-octyl phthalate	117-84-0	NL	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Hexachlorobenzene	118-74-1	0.4	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Hexachlorobutadiene	87-68-3	0.5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Hexachlorocyclopentadiene	77-47-4	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Hexachloroethane	67-72-1	5	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Isophorone	78-59-1	50	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Nitrobenzene	98-95-3	0.4	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
N-Nitrosodi-n-propylamine	621-64-7	50	< 0.56 U	< 0.56 U	< 0.56 U	< 0.53 U	< 0.56 U	< 0.50 U	< 0.51 U
N-Nitrosodiphenylamine	86-30-6	50	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Pentachlorophenol	87-86-5	1	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U
Phenol	108-95-2	1	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Total SVOCs			***338.8***	***225.6***	***2.6***	*ND*	***3.6***	*ND*	*ND*

Table F-2
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C15S 9/11/2015 MW-C15 S-091115 5091402	MW-C15S 9/11/2015 DUPE-091115 5091402	MW-C15D 9/11/2015 MW-C15 D-091115 5091402	MW-C16S 9/11/2015 MW-C16 S-091115 5091402	MW-C16D 9/11/2015 MW-C16 D-091115 5091402	MW-C17S 9/16/2015 MW-C17S-091615 5091703	MW-C17D 9/16/2015 MW-C17D-091615 5091703
PCBs (ug/L)									
Aroclor 1016	12674-11-2	NL	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U
Aroclor 1221	11104-28-2	NL	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U
Aroclor 1232	11141-16-5	NL	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U
Aroclor 1242	53469-21-9	NL	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U
Aroclor 1248	12672-29-6	NL	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U
Aroclor 1254	11097-69-1	NL	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U
Aroclor 1260	11096-82-5	NL	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U
Aroclor 1262	37324-23-5	NL	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U
Aroclor 1268	11100-14-4	NL	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U
Polychlorinated biphenyls	*1336-36-3*	*0.09*	< 0.25 U	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U

Notes:
ug/L = micrograms per liter
Bold value = detected above reporting limit
Gray Highlighted values exceed NYSDEC GW Guidance or Standard Value
NL = Not listed
ND = Not detected
U = Nondetected result. The analyte was analyzed for, but 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
J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, likely to be biased high. The associated numerical value is the approximate concentration of the analyte in the sample.
J- = (Inorganics) The result is an estimated quantity, may be biased low.
deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 5-4
Interfacial/Surface Tension Data
3rd Avenue Yard
Brooklyn, New York

Phase Pair		Temperature, ^{o}F	Interfacial Tension, Dynes/centimeter
Sample ID/Phase	Sample ID/Phase		
MW-4-w/Water	Air	75	65.5
MW-4-o/NAPL	Air	75	26.2
MW-4-w/Water	MW-4-o/NAPL	75	15.9

Table 5-5
Viscosity, Density, and Specific Gravity Data
3rd Avenue Yard
Brooklyn, New York

Sample ID ID	Matrix	Temperature ^{o}F	Specific Gravity	Density, g/cc	Viscosity	
					centistokes	centipoise
MW-4-w	Water	70	1.002	1.000	1.02	1.02
		100	1.002	0.9948	0.702	0.699
		130	1.001	0.9873	0.531	0.524
MW-4-o	NAPL	70	0.853	0.8512	2.08	1.77
		100	0.8433	0.8375	1.53	1.28
		130	0.8376	0.8258	1.22	1.00

Environmental Forensic Report



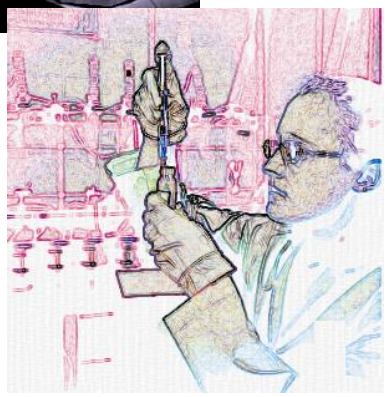
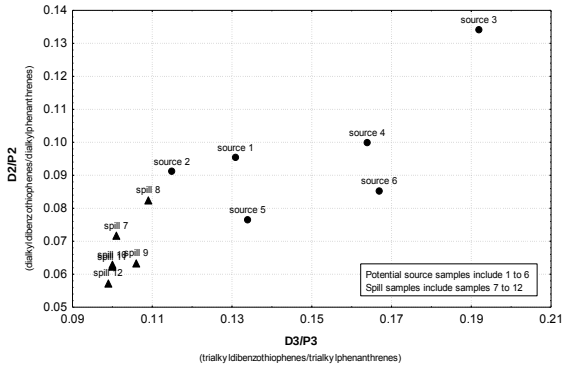


Figure 1. Double Ratio Plot



3rd Avenue Yard

SDG: AE130531; AE130619; AE130621; AE130628, AE130725; AE130801; AE130823

Report To:

AECOM
100 Red Schoolhouse Road
Suite B-1
Chestnut Ridge, NY 10977

Report By:

META Environmental, Inc.
115 Dean Ave., Box 13
Franklin, MA 02038

September 10, 2013

Identifying and allocating sources of pollutants in complex environments.

META

Final Laboratory Report

META Environmental, Inc.
115 Dean Ave., Box 13
Franklin MA, 02038
Phone: 508-541-9146
E-Mail dmauro@metaenv.com

Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. The results included in this data report relate only to the samples as received and analyzed by the laboratory.

This report shall not be reproduced except in full, without the written approval of META Environmental, Inc.

Release of the data contained in this hardcopy or electronic copy data package has been authorized by the following signature(s).



David M. Mauro
Senior Scientist, Quality Assurance Officer

September 10, 2013
Date

Sample Delivery Group Narrative

Project:	3rd Avenue Yard
Client	AECOM 100 Red Schoolhouse Road Suite B-1 Chestnut Ridge, NY 10977
Report Contact:	Eleanor Vivaudou
Dates of Receipt:	5/31/2013, 6/19/2013, 6/21/2013, 6/28/2013, 7/25/2013, 8/1/2013, 8/23/2013
Sample Summary:	The samples received for this project are summarized in the attached sample login forms in Appendix A.
META Project Number:	A21020
SDG No.:	AE130531; AE130619; AE130621; AE130628, AE130725; AE130801, AE130823

The samples were received in seven (7) different delivery groups over a 3 month period. The first four sample delivery groups (SDGs), AE130531; AE130619; AE130621; AE130628, were received by META Environmental, Inc. and analyzed at META's Watertown MA laboratory. The last 3 SDGs were received by Accutest Laboratories of New England and analyzed by them at their Marlborough MA laboratory. This report discusses all seven SDGs.

The following table shows a cross-reference of META and Accutest SDG/Project numbers.

Table 1. Sample Identifications Cross-Reference

META SDG #	Lab Conducting Analyses	Laboratory Project No.	Field Sample IDs	Lab Sample IDs	Matrix
AE130531	META	A21020	D7 (12-14)	AE130531-01	Soil
AE130619	META	A21020	MW-C7D (11-13)	AE130619-01	Soil
AE130621	META	A21020	MW-C10D (33-35)	AE130621-01	Soil
AE130628	META	A21020	MW-C6D (9-11)	AE130628-01	Soil
AE130725	Accutest	MC23014	MW-C5D (17-19)	MC23014-1	Soil
AE130801	Accutest	MC23191	MW-C8D (23-25)	MC23191-1	Soil
AE130823	Accutest	MC23798	MW-4	MC23798-1	Water/NAPL

Chain of Custody

The samples were received in good condition. The internal temperature of the shipping containers were as follows:

Samples received:	05/31/2013	9.2°C	Ice present
	6/19/2013	7.6°C	Ice present
	6/21/2013	8.4°C	Ice present
	6/28/2013	5.0°C	Ice present
	7/25/2013	1.5°C	Ice present
	8/1/2013	16.2°C	Ice melted
	8/23/2013	1.3°C	Ice present

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

Methods

The soil samples were prepared by solvent extraction (EPA 3570) using dichloromethane (DCM).

NAPL samples were prepared by solvent dilution (EPA 3580) using dichloromethane.

The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8015M) for fingerprinting and by GC/MS/SIM (EPA 8270M) for mono- and polycyclic aromatic hydrocarbons (MAHs and PAHs), alkyl PAH homologues and other selected compounds.

Results

Sample results are presented in several appendices which follow this narrative.

Appendix B: GC/FID Fingerprints
Appendix C: MAH/PAH Concentrations
Appendix D: Extended MAH/PAH Profiles - Histograms
Appendix E: Extracted Ion Current Profiles (EICPs)
Appendix F: Accutest Report for MC23014
Appendix G: Accutest Report for MC23191
Appendix H: Accutest Report for MC23798

Quality Control – META LABORATORY

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

Holding Times

All samples were extracted within holding times. The samples and extracts were stored at 4°C ± 2°C prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

Surrogate Spikes

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion.

Blanks

Various MAHs and PAHs were detected below or just above the reporting limit (RL) in soil blanks. Detections of these compounds in the field samples should be examined for possible positive bias.

Blank Spikes

A blank spike sample was extracted with each analytical batch. All spiked compounds were recovered within criteria.

Duplicates

Samples D7(12-14), MW-C7D(11-13), MW-C10D (33-35), and MW-C6D (9-11) were extracted and analyzed in duplicate. Relative percent differences are reported with the sample results in Appendix C.

Internal Standards

Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

Quality Control – Accutest

The quality control narratives are provided in the Accutest laboratory reports in Appendices F, G, and H.

Interpretation

Introduction

Six samples of soil and one sample of a water/NAPL mixture were received by META/Accutest from the 3rd Avenue site on May 31, June 19, June 21, June 28, July 25, August 1, and August 23. The samples were analyzed for hydrocarbon fingerprint and an expanded list of MAHs and PAHs.

This report summarizes the findings and compares the samples.

Sample-Specific Observations

Table 2 summarizes the GC/FID and GC/MS data for each sample. Also provided is a qualitative determination of whether the PAHs were pyrogenic or petrogenically-derived and the potential sources of the PAHs (see Definitions).

Discussion

The six soil samples all contained pyrogenic PAHs with little or no indications of petrogenic PAHs or other hydrocarbons. Naphthalene was the most abundant PAH in samples D7 (12-14), MW-C7D (11-13), MW-C6D (9-11), MW-C5D (17-19), and MW-C8D (23-25), indicating that those samples were only slightly or moderately weathered (volatilized, preferentially dissolved, and/or biologically degraded). The concentrations of total priority pollutant PAHs ranged from 156 mg/kg to 6,960 mg/kg. These concentration were well above the expected range for urban background. This relatively high total PAH concentrations together with the relative abundance of naphthalene indicates that the soil samples contained PAH likely from a tar source.

The relative amounts of 2-ring PAHs and similar compounds was greatly reduced relative to higher molecular weight PAHs in sample MW-C10D (33-35); suggesting a substantial degree of weathering.

Sample MW-4 was a NAPL sample that contained a tar-like material (TLM) similar to that found in the soil samples. Sample MW-4 also contained a substantial petroleum-derived component that appeared to be weathered gasoline or a similar material.

A comparison of PAH ratios (Table 3) shows that the PAH distributions in most of the samples were similar to each other and to tar reference samples in META's archive from the carbureted water gas process. This is illustrated in Figures 1 and 2. However, sample MW-C10D (33-35) (with the lowest total PAH concentration) contained a pyrogenic PAH pattern more similar to combustion-derived sources and coal carbonization source.

Table 2. Sample-Specific Observations

Lab ID	Field ID	Comments	Fl/Py[1]	Total PP PAHs (mg/kg)	Class	Tentative Source Identification
Principally Pyrogenic Samples in this group are characterized by parent PAHs present at substantially higher concentrations than their alkylated homologues. Also, the parent PAHs are present at higher concentrations than other hydrocarbons (i.e, alkanes, cyclic alkanes, etc.) in the sample. Samples in this group may contain lesser amounts of hydrocarbons (including PAHs) from petroleum-derived sources and from general urban background; however, the contribution of PAHs from those sources to the total PAH concentration of the samples appears to be low based on examination of the GC/FID chromatograms and the GC/MS data (Appendices B, C, D, and E)						
AE130531-01	D7 (12-14)	Wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs), with the 2 and 3 ring PAHs most abundant No indications in the data of petroleum products or other sources of PAHs	0.633	6,960	pyrogenic	Tar-like material (TLM)
AE130619-01	MW-C7D (11-13)	Wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs), with the 2 and 3 ring PAHs most abundant No indications in the data of petroleum products or other sources of PAHs	0.602	365	pyrogenic	TLM
AE130621-01	MW-C10D (33-35)	Wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs), with the 3 and 4- ring PAHs most abundant Low relative amounts of alkanes, alkylcyclohexanes, and other petroleum indicators in the diesel to heavy oil range	1.19	156	pyrogenic	Weathered TLM
AE130628-01	MW-C6D (9-11)	Wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs), with the 2 and 3 ring PAHs dominant No indications in the data of petroleum products or other sources of PAHs	0.661	1,290	pyrogenic	TLM

Lab ID	Field ID	Comments	Fl/Py[1]	Total PP PAHs (mg/kg)	Class	Tentative Source Identification
MC23014-1	MW-C5D (17-19)	Wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs), with the 2 and 3 ring PAHs most abundant No indications in the data of petroleum products or other sources of PAHs	0.705	813	pyrogenic	TLM
MC23919-1	MW-C8D (23-25)	Wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs), with the 2 and 3 ring PAHs most abundant No indications in the data of petroleum products or other sources of PAHs	0.586	478	pyrogenic	TLM
MC23798-1	MW-4	Wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs), with naphthalene most abundant Unresolved complex mixture (UCM) from about heptane (n-C7) to about tridecane (n-C13); normal alkanes apparently degraded; strong alkylcyclohexane pattern	0.638	120,000	Mixture pyrogenic/ petrogenic	TLM with weathered gasoline and kerosene (possible naphtha or condensate)
Principally Petrogenic Samples in this group are characterized by higher concentrations alkylated PAHs than their associated parent compound. These samples also exhibit an unresolved complex mixture (UCM) of compounds consisting of alkane, cyclic alkane, and aromatic compounds.						
		none				
Urban Background General urban background is characterized by relatively low concentrations of PAHs, often pyrogenically formed, mixed with an accumulation of severely weathered petroleum products and/or coal. There is a wide range of compositions and therefore chemical patterns of urban background that reflect the history of land uses in the area where the samples were collected.						

1 - Fl/Py – ratio of fluoranthene/pyrene; this ratio has been shown to vary among PAH sources, typically low for petrogenic sources and higher for pyrogenic sources. further, tars derived from oil often exhibit lower Fl/Py ratios than tars derived from coal.

2 – general urban background is characterized by relatively low concentrations of PAHs, often pyrogenically formed, mixed with an accumulation of severely weathered petroleum products and/or coal. There is a wide range of compositions (and therefore chemical patterns) of urban background that reflect the history of land uses in the area where the samples were collected.

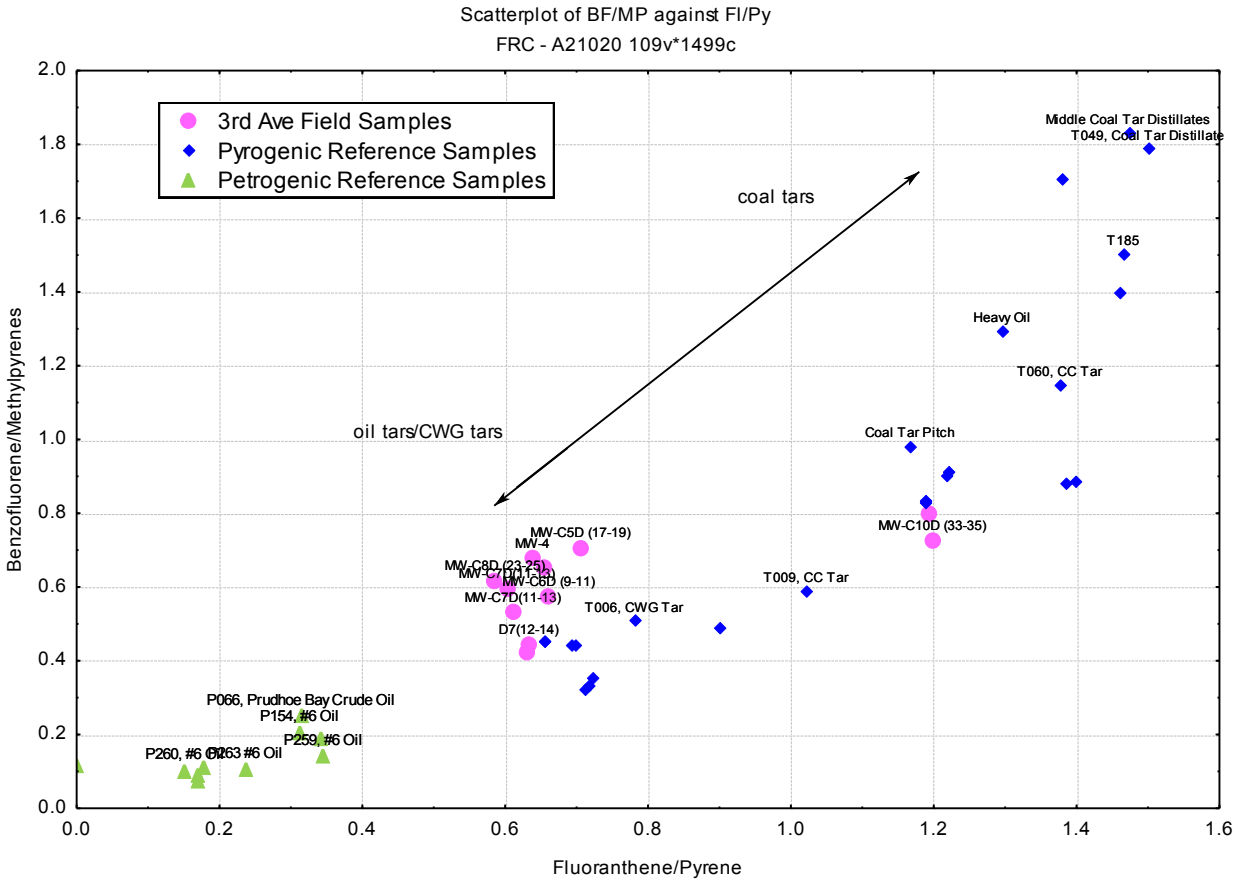
Table 3. Selected Source and Weathering Ratios

Field Samples	Lab ID	Fl/Py	D/F	C3D/C3PA	C2D/C2PA	BF/MP	BAA/CHR	BeP/BaP	(BbF+BkF)/BaP	(Fl+Py)/Total PP HPAHs
D7(12-14)	AE130531-01-D3	0.633	NC	NC	NC	0.445	1.063	0.636	0.915	0.634
D7(12-14)	AE130531-01DUP-D3	0.631	NC	NC	NC	0.426	1.034	0.658	0.901	0.646
MW-C7D(11-13)	AE130619-01-D3	0.602	NC	NC	NC	0.596	1.083	0.771	1.096	0.697
MW-C7D(11-13)	AE130619-01DUP-D3	0.611	0.014	NC	NC	0.532	1.016	1.158	1.466	0.796
MW-C10D (33-35)	AE130621-01-D2	1.194	0.658	0.167	0.132	0.798	1.116	0.577	1.489	0.474
MW-C10D (33-35)	AE130621-01DUP	1.198	0.673	0.160	0.132	0.726	1.123	0.581	1.502	0.474
MW-C6D (9-11)	AE130628-01-D2	0.661	0.015	NC	NC	0.575	1.059	0.560	0.856	0.616
MW-C6D (9-11)	AE130628-01DUP-D2	0.656	0.012	NC	NC	0.654	1.145	0.559	0.853	0.613
MW-4	MC23798-1	0.638	0.012	NC	0.164	0.677	1.094	0.493	0.778	0.650
MW-C5D (17-19)	MC23014-1	0.705	0.027	0.286	0.123	0.707	1.055	0.516	0.920	0.585
MW-C8D (23-25)	MC23191-1	0.586	0.006	0.466	NC	0.618	1.001	0.549	0.776	0.575

Ratios:

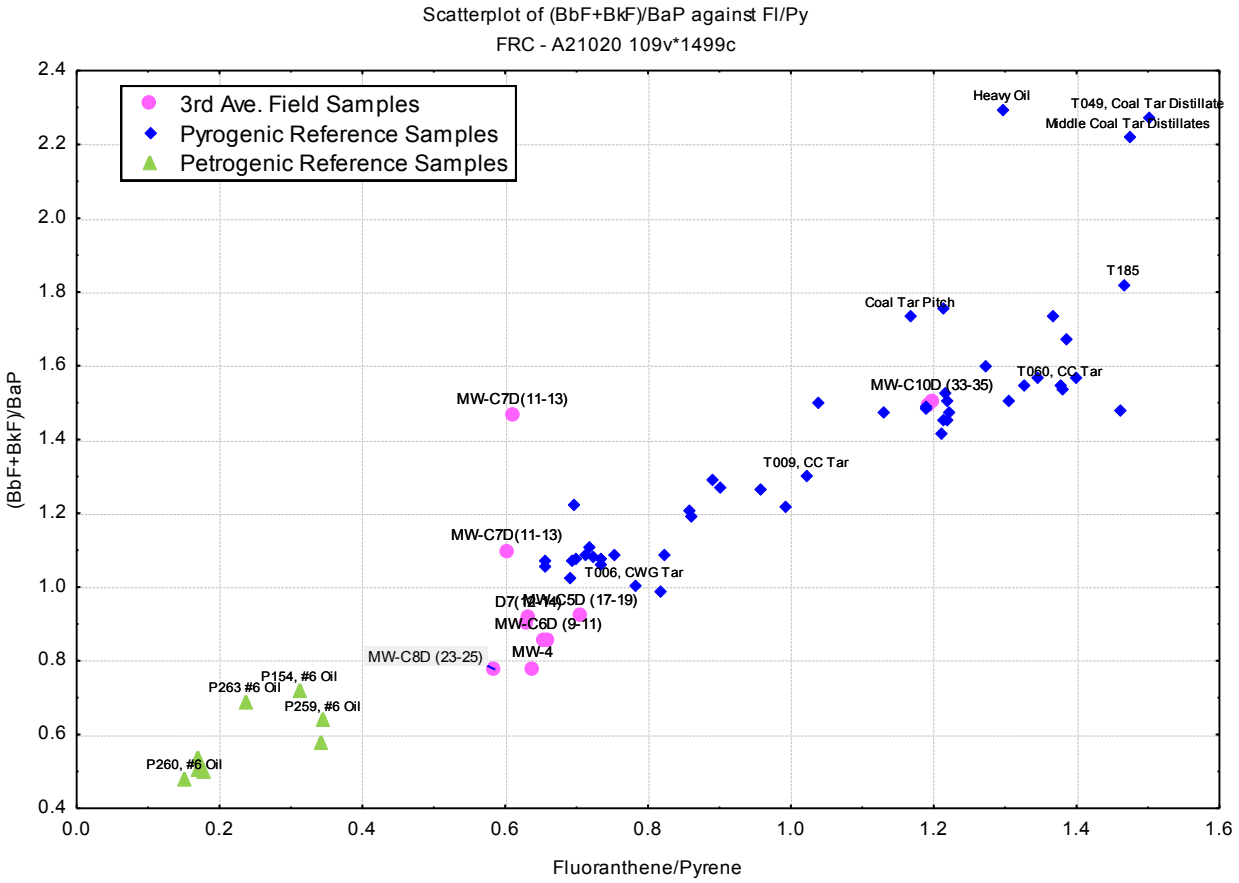
Fl/Py	fluoranthene/pyrene
D/F	dibenzofuran/fluorene
C3D/C3PA	trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes
C2D/C2PA	dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes
BF/MP	benzofluorenes/methylpyrenes
BAA/CHR	benz(a)anthracene/chrysene
BeP/BaP	benzo(e)pyrene/benzo(a)pyrene
(BbF+BkF)/BaP	(benzo(b)fluoranthene + benzo(k)fluoranthene)/benzo(a)pyrene
NC	Not calculable

Figure 1. Selected Diagnostic Ratios – BF/MP v. Fl/Py



TXXX Tar Sample from META's in house source library
CC Coal Carbonization Tar
CO Coke Oven Tar
CR Creosote
CWG Carbureted Water Gas Tar
● Field Samples

Figure 2. Selected Diagnostic Ratios – (BbF+BkF)/BaP v. Fl/Py



TXXX Tar Sample from META's in house source library
CC Coal Carbonization Tar
CO Coke Oven Tar
CR Creosote
CWG Carbureted Water Gas Tar
● Field Samples

Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

References

"Chemical Fingerprinting of Hydrocarbons," in: Introduction to Environmental Forensics. B.L. Murphy and R.D. Morrison editors, Academic Press, San Diego, CA 2002.

Mauro, D.M., "Chemical Source Attribution at former MGP Sites," EPRI Report 1000728, December 2000.

Mauro, D.M., "Examination of the Sources of Polycyclic Aromatic Hydrocarbon (PAH) in Urban Background Soil," EPRI Report 1015558, December 2008.

DEMOLITION AREA

TABLE 1
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
April 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-7(10-10.5')	S-8 (7-7.5')	S-8 (10-10.5')	S-8 (7-7.5')_DL	S-9 (9.0-9.5')	S-9 (11-11.5')	S-10 (8.5-9.0')
Lab Sample No.		460-00039020-001	460-00039111-003	460-00039111-004	460-00039111-003_DL	460-39572-1	460-39572-2	460-00039110-001
Sampling Date		04/11/2012	04/13/2012	04/13/2012	04/13/2012	04/26/2012	04/26/2012	4/12/2012
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dilution Factor		50	50	1	500	1	1	1
VOLATILE ORGANIC COMPOUNDS (ppm)								
1,2,4-Trimethylbenzene	**3.6**	0.04J	1.5	ND	--	0.1	0.01J	ND
1,3,5-Trimethylbenzene	**8.4**	ND	0.45	ND	--	ND	ND	ND
Benzene	**0.06**	0.06J	ND	0.01J	--	0.01J	ND	ND
Ethylbenzene	**1.0**	0.34	0.57	0.01J	--	0.1	0.01J	0.01J
Isopropylbenzene	**2.3**	0.14	0.31	ND	--	0.1	0.01	ND
MTBE	**0.93**	ND	ND	ND	--	ND	ND	ND
n-Butylbenzene	**12.0**	ND	ND	ND	--	0.1	0.01J	ND
N-Propylbenzene	**3.9**	0.06J	0.24	ND	--	0.1	0.01J	ND
p-Isopropyltoluene	**10.0**	0.02J	0.18	ND	--	ND	0.01J	0.01J
sec-Butylbenzene	**11.0**	ND	0.08J	ND	--	0.1	0.01	ND
TBA	**NA**	ND	ND	ND	--	ND	ND	ND
tert-Butylbenzene	**5.9**	ND	ND	ND	--	0.1	0.01J	ND
Toluene	**0.7**	0.02J	ND	0.01J	--	0.01J	0.01J	0.01J
Xylenes, Total	**0.26**	0.09J	0.25J	ND	--	0.01J	ND	ND
Total Confident Conc.	**NA**	0.78	3.58	0.01	--	0.04	0.01	0.01
Total Estimated Conc. (TICs)	**NA**	0	0	0		0*T	0*T	0
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)								
Acenaphthene	**20**	0.39J	-	0.64J	**180JD**	1.8	0.17J	0.11J
Acenaphthylene	**100**	ND	-	0.61J	44D	ND	ND	0.23J
Anthracene	**100**	0.16J	-	0.93	**160JD**	0.22J	ND	0.28J
Benzo[a]anthracene	**1.0**	0.32	-	0.91	**120D**	0.10	0.05J	0.94
Benzo[a]pyrene	**1.0**	0.35	-	**1.2**	**140D**	0.08	0.04J	**1.3**
Benzo[b]fluoranthene	**1.0**	0.41	-	0.98	**89D**	0.07	0.04J	**1.3**
Benzo[g,h,i]perylene	**100**	0.19J	-	0.73J	**77JD**	0.05J	ND	1.0
Benzo[k]fluoranthene	**0.8**	0.15	-	0.39	**39D**	0.03J	0.02J	0.52
Chrysene	**1.0**	0.37J	-	**1.0**	**120JD**	0.09J	ND	**1.0**
Dibenz(a,h)anthracene	**0.33**	0.05	-	0.06J	ND	ND	ND	0.15
Fluoranthene	**100**	0.85	-	2.8	**330D**	0.38J	0.08J	2.0
Fluorene	**30**	0.12J	-	1.1	**270D**	0.39J	ND	0.14J
Indeno[1,2,3-cd]pyrene	**0.5**	0.22	-	**0.54**	**49D**	0.04	0.03J	**0.87**
Naphthalene	**12.0**	0.68	-	6.5	**5200D**	0.12JB	0.12JB	1.0
Phenanthrene	**100**	0.74	-	4.7	**920D**	0.95	0.11J	1.40
Pyrene	**100**	0.62	-	3.5	**670D**	0.65	0.10J	1.9
Total Confident Conc.		5.62	-	26.59	8804	4.97	0.76	14.14
Total Estimated Conc. (TICs)		0	-	0	0	0*T	0*T	0

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TABLE 1
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
April 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID		S-11(10-10.5)	S-12 (8.5-9.0')	S-13 (9-9.5')	S-13 (11-11.5')	S-14(9.5-10.0')	S-14(12.5-13.0')	S-14(12.5-13.0')_DL
Lab Sample No.	DEC CP-51 Soil	460-00039811-001	460-00039110-002	460-00039110-003	460-00039110-004	460-00039020-002	460-00039020-003	460-00039020-003_DL
Sampling Date	Cleanup	04/30/2012	04/12/2012	04/12/2012	04/12/2012	04/11/2012	04/11/2012	04/11/2012
Matrix	Objectives	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dilution Factor		1	50	50	1	500	500	100
VOLATILE ORGANIC COMPOUNDS (ppm)								
1,2,4-Trimethylbenzene	**3.6**	0.01J	0.06J	**14**	0.01J	**120**	1.4	-
1,3,5-Trimethylbenzene	**8.4**	ND	ND	5.9	0.01J	**46**	0.56	-
Benzene	**0.06**	ND	0.02J	0.05J	0.01J	**0.97J**	ND	-
Ethylbenzene	**1.0**	ND	0.04J	**30**	0.01	**320**	**1.1**	-
Isopropylbenzene	**2.3**	ND	0.02J	**3.6**	0.01J	**41.0**	0.37	-
MTBE	**0.93**	ND	ND	ND	ND	ND	ND	-
n-Butylbenzene	**12.0**	ND	0.02J	ND	ND	**21**	1.2	-
N-Propylbenzene	**3.9**	ND	0.01J	2.5	ND	**25**	0.3	-
p-Isopropyltoluene	**10.0**	ND	0.12	2.3	ND	**18**	1.2	-
sec-Butylbenzene	**11.0**	ND	ND	1.0	ND	7.6	0.28	-
TBA	**NA**	ND	ND	ND	ND	ND	ND	-
tert-Butylbenzene	**5.9**	ND	ND	0.41	ND	3.1	ND	-
Toluene	**0.7**	0.01J	0.17	0.19	0.01	**2.0**	ND	-
Xylenes, Total	**0.26**	ND	ND	**8.5**	ND	**80.0**	ND	-
Total Confident Conc.	**NA**	0.01	0.45	68.45	0.01	684.67	6.41	-
Total Estimated Conc. (TICs)	**NA**	0	0	0	0	0	0	-
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)								
Acenaphthene	**20**	ND	1.2	2.6	5.20	**26**	-	**130D**
Acenaphthylene	**100**	ND	0.15J	ND	ND	0.45J	-	ND
Anthracene	**100**	ND	0.73	0.45	3.5	7.6	-	**160D**
Benzo[a]anthracene	**1.0**	0.06	**1.7**	0.18	**3.6**	**3.2**	-	**140D**
Benzo[a]pyrene	**1.0**	0.05	**1.8**	0.18	**3.0**	**3.5**	-	**140D**
Benzo[b]fluoranthene	**1.0**	0.06	**2.2**	0.14	**3.6**	**2.3**	-	**150D**
Benzo[g,h,i]perylene	**100**	0.04J	1.4	0.11J	2.0J	2.2	-	79D
Benzo[k]fluoranthene	**0.8**	0.03J	0.75	0.06	**1.9**	**0.8**	-	**62D**
Chrysene	**1.0**	0.06J	**1.8**	0.18J	**4.1**	**2.9**	-	**150D**
Dibenz(a,h)anthracene	**0.33**	ND	0.2	ND	0.23	ND	-	**14D**
Fluoranthene	**100**	0.13J	4.0	0.65	12.0	13.0	-	**410D**
Fluorene	**30**	ND	0.53	1.0	5.2	10.0	-	**110D**
Indeno[1,2,3-cd]pyrene	**0.5**	0.04	**1.2**	0.05	**1.8**	**1.5**	-	**80D**
Naphthalene	**12.0**	ND	2.5	6.0	**23**	**24**	-	**140D**
Phenanthrene	**100**	0.18J	3.6	2.2	15.0	32	-	**610D**
Pyrene	**100**	0.12J	3.1	1.1	12.0	18	-	**350D**
Total Confident Conc.		0.76	26.86	14.90	96.13	147.46	-	2725
Total Estimated Conc. (TICs)		0	0	0	0	0	-	0

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TABLE 1
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
April 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-15(10-10.5')	S-15(15-15.5')	S-16 (8.5-9.0')	S-17 (10.5-11')	S-18 (9.0-9.5')	S-19 (7.5-8.0')	S-19 (7.5-8.0')_DL
Lab Sample No.		460-00039020-004	460-00039020-005	460-00039110-005	460-00039111-001	460-00039020-006	460-00039020-007	460-00039020-007_DL
Sampling Date		04/11/2012	04/11/2012	04/12/2012	04/13/2012	04/11/2012	04/11/2012	04/11/2012
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dilution Factor		50	50	1	1	50	1	10
VOLATILE ORGANIC COMPOUNDS (ppm)								
1,2,4-Trimethylbenzene	**3.6**	0.65	0.07J	ND	0.01	0.04J	ND	-
1,3,5-Trimethylbenzene	**8.4**	0.37	0.03J	ND	ND	0.02J	ND	-
Benzene	**0.06**	**0.17**	**0.10J**	ND	0.01	0.09J	0.01	-
Ethylbenzene	**1.0**	**2.20**	0.16	ND	0.01	0.18	0.01J	-
Isopropylbenzene	**2.3**	1.30	0.08J	ND	0.037	0.01J	ND	-
MTBE	**0.93**	ND	ND	ND	ND	ND	ND	-
n-Butylbenzene	**12.0**	1.6	0.09J	ND	0.01	ND	ND	-
N-Propylbenzene	**3.9**	1.6	0.1J	ND	0.027	0.01J	ND	-
p-Isopropyltoluene	**10.0**	0.32	0.04J	ND	0.01	0.02J	ND	-
sec-Butylbenzene	**11.0**	0.89	0.05J	ND	0.01	ND	ND	-
TBA	**NA**	ND	ND	ND	ND	ND	ND	-
tert-Butylbenzene	**5.9**	0.5	0.03J	ND	ND	ND	ND	-
Toluene	**0.7**	0.10J	0.03J	0.01J	0.01	0.11	0.01	-
Xylenes, Total	**0.26**	0.99	0.09J	ND	0.01	0.08J	ND	-
Total Confident Conc.	**NA**	10.69	0.88	0.01	0.10	0.56	0.01	-
Total Estimated Conc. (TICs)	**NA**	0	0	0	0	0	0	
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)								
Acenaphthene	**20**	0.84	ND	ND	17	1.30	-	ND
Acenaphthylene	**100**	0.06J	ND	2.0	ND	0.24J	-	5.1D
Anthracene	**100**	0.42J	ND	0.28J	10	1.9	-	1.9JD
Benzo[a]anthracene	**1.0**	0.7	0.05	**5.0**	**12**	**3.5**	-	**17D**
Benzo[a]pyrene	**1.0**	1.0	0.04	**24**	**11**	**3.9**	-	**33D**
Benzo[b]fluoranthene	**1.0**	0.9	0.04	**17**	**13**	**4.3**	-	**20D**
Benzo[g,h,i]perylene	**100**	0.74	ND	30.0	5.7	2.9	-	26D
Benzo[k]fluoranthene	**0.8**	0.4	ND	**4.9**	**4.4**	**1.4**	-	**8.1D**
Chrysene	**1.0**	0.8	0.06J	**6.2**	**12**	**3.7**	-	**15D**
Dibenz(a,h)anthracene	**0.33**	0.07	ND	**2.0**	**1.4**	**0.48**	-	**1.9D**
Fluoranthene	**100**	1.5	0.09J	5.3	27	9.1	-	27D
Fluorene	**30**	0.38J	ND	ND	8.8	1.4	-	ND
Indeno[1,2,3-cd]pyrene	**0.5**	0.5	ND	**18**	**5.4**	**2.4**	-	**16D**
Naphthalene	**12.0**	2.7	0.08J	ND	7.6	1.2	-	2.3JD
Phenanthrene	**100**	1.7	0.08J	0.25J	35	9.0	-	1.1JD
Pyrene	**100**	2.0	0.10J	27	21	7.2	-	29D
Total Confident Conc.		14.78	0.54	141.93	191.30	53.92	-	203.40
Total Estimated Conc. (TICs)		0	0	0	0	0	-	

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ppm = Parts per million

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TABLE 1
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
April 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-20 (8-8.5')	S-20 (8-8.5')_DL	S-20 (10.5-11')	S-21 (9.0-9.5')	S-21 (11.5-12.0')	S-22 (9.0-9.5')	S-22 (9.0-9.5')
Lab Sample No.		460-00039110-007	460-00039110-007_DL	460-00039110-008	460-39572-3	460-39572-4	460-39572-5	460-39572-5-DL
Sampling Date		04/12/2012	04/12/2012	04/12/2012	04/26/2012 09:45:00	04/26/2012 09:50:00	04/26/2012 10:10:00	04/26/2012 10:10:00
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dilution Factor		50	100	1	100	1	250	100
VOLATILE ORGANIC COMPOUNDS (ppm)								
1,2,4-Trimethylbenzene	**3.6**	2.9	-	0.01	**13**	0.01J	**6.6**	**-**
1,3,5-Trimethylbenzene	**8.4**	0.9	-	0.01J	8.3	ND	3.10	**-**
Benzene	**0.06**	0.02J	-	0.01J	0.12	0.01J	0.10J	**-**
Ethylbenzene	**1.0**	**2.8**	-	0.01	**45**	0.01J	**22**	**-**
Isopropylbenzene	**2.3**	1.0	-	0.01	**3.0**	0.01J	**6.7**	**-**
MTBE	**0.93**	ND	-	ND	ND	0.01J	ND	**-**
n-Butylbenzene	**12.0**	ND	-	ND	ND	ND	ND	**-**
N-Propylbenzene	**3.9**	1.1	-	0.01J	**4.2**	0.01J	**4.1**	**-**
p-Isopropyltoluene	**10.0**	0.35	-	ND	0.32J	ND	0.70J	**-**
sec-Butylbenzene	**11.0**	0.13	-	ND	0.26J	ND	0.25J	**-**
TBA	**NA**	ND	-	ND	ND	ND	ND	**-**
tert-Butylbenzene	**5.9**	ND	-	ND	ND	ND	ND	**-**
Toluene	**0.7**	0.04J	-	0.01J	0.68	ND	0.17J	**-**
Xylenes, Total	**0.26**	**0.81**	-	0.01J	**15**	ND	**2.70**	**-**
Total Confident Conc.	**NA**	10.05	-	0.02	89.88	0.01	46.42	**-**
Total Estimated Conc. (TICs)	**NA**	0	-		0*T	0*T	0*T	**-**
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)								
Acenaphthene	**20**	**-**	**270D**	7.8	**23JD**	0.92	-	**150D**
Acenaphthylene	**100**	**-**	ND	ND	**170D**	0.07J	-	18JD
Anthracene	**100**	**-**	15.0JD	ND	30JD	0.71	-	33JD
Benzo[a]anthracene	**1.0**	**-**	**4.2JD**	0.22	**25D**	**1.1**	-	**22D**
Benzo[a]pyrene	**1.0**	**-**	**3.2JD**	ND	**31D**	**1.2**	-	**26D**
Benzo[b]fluoranthene	**1.0**	**-**	**1.7JD**	ND	**19D**	**1.2**	-	**17D**
Benzo[g,h,i]perylene	**100**	**-**	ND	ND	16JD	0.86	-	16JD
Benzo[k]fluoranthene	**0.8**	**-**	**1.6JD**	ND	**10D**	0.46	-	**5.9D**
Chrysene	**1.0**	**-**	ND	ND	**24JD**	**1.2**	-	**21JD**
Dibenz(a,h)anthracene	**0.33**	**-**	ND	ND	ND	0.14	-	ND
Fluoranthene	**100**	**-**	21.0JD	0.32J	75D	2.3	-	75D
Fluorene	**30**	**-**	**54D**	1.80J	**71D**	0.42J	-	**61D**
Indeno[1,2,3-cd]pyrene	**0.5**	**-**	ND	ND	**13D**	**0.86**	-	**10D**
Naphthalene	**12.0**	**-**	**690D**	27.0	**1200BD**	3.1B	-	**810DB**
Phenanthrene	**100**	**-**	71D	2.0	**200D**	2.8	-	**180D**
Pyrene	**100**	**-**	29JD	0.40J	**150D**	2.1	-	**120D**
Total Confident Conc.		**-**	1160.7	39.54	2057	19.44	-	1564.9
Total Estimated Conc. (TICs)		-	0	0	0*T	0*T	-	0*T

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Volatile and Semi Volatile Organic Compounds - Open Excavation Area
April 2012

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Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-22 (12.0-12.5')	S-23 (9.0-9.5')	S-23 (12.0-12.5')	S-24 (8.5-9.0')	S-24 (11.5-12.0')	S-25 (9.0-9.5')	S-25 (11.5-12.0')
Lab Sample No.		460-39572-6	460-39572-7	460-39572-8	460-39572-9	460-39572-10	460-39572-11	460-39572-12
Sampling Date		04/26/2012 10:15:00	04/26/2012 10:25:00	04/26/2012 10:40:00	04/26/2012 08:10:00	04/26/2012 08:15:00	04/26/2012 11:30:00	04/26/2012 11:45:00
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dilution Factor		50	250	50	500	50	500	50
VOLATILE ORGANIC COMPOUNDS (ppm)								
1,2,4-Trimethylbenzene	**3.6**	0.08J	**26**	0.03J	3.0	0.15	**4.6**	0.02J
1,3,5-Trimethylbenzene	**8.4**	0.03J	**13**	ND	0.72J	0.07J	2.0	ND
Benzene	**0.06**	**0.36**	**0.30J**	**1.3**	ND	0.03J	**0.13J**	0.02J
Ethylbenzene	**1.0**	0.34	**83**	0.78	0.78J	0.10J	**1.90**	ND
Isopropylbenzene	**2.3**	0.26	**6.1**	0.20	2.0	0.05J	1.70	ND
MTBE	**0.93**	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	**12.0**	ND	ND	ND	ND	ND	ND	ND
N-Propylbenzene	**3.9**	0.08J	**7.9**	ND	1.20	0.05J	1.40J	ND
p-Isopropyltoluene	**10.0**	ND	0.60J	ND	0.70J	0.04J	0.42	ND
sec-Butylbenzene	**11.0**	ND	0.46J	ND	0.24J	ND	ND	ND
TBA	**NA**	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	**5.9**	ND	ND	ND	ND	ND	ND	ND
Toluene	**0.7**	0.03J	**5.0**	0.08J	ND	ND	0.65J	ND
Xylenes, Total	**0.26**	0.21J	**82**	**0.40**	**0.82J**	ND	**1.20J**	0.05
Total Confident Conc.	**NA**	1.38	224.36	2.79	9.46	0.48	14.0	0.04
Total Estimated Conc. (TICs)	**NA**	0*T	0*T	0*T	0*T	0*T	0*T	0*T
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)								
Acenaphthene	**20**	0.70J	**25JD**	ND	**340D**	5.6	**64JD**	0.31J
Acenaphthylene	**100**	ND	**270D**	ND	ND	ND	**200JD**	0.33J
Anthracene	**100**	ND	42JD	ND	79JD	0.23J	53JD	0.22J
Benzo[a]anthracene	**1.0**	0.01	**37D**	0.11	**40D**	0.42	**45D**	0.26
Benzo[a]pyrene	**1.0**	0.10	**46D**	0.09	**46D**	0.49	**52D**	0.29
Benzo[b]fluoranthene	**1.0**	0.13	**26D**	0.11	**32D**	0.56	**30D**	0.21
Benzo[g,h,i]perylene	**100**	0.06J	25JD	0.06J	26JD	0.29J	26JD	0.19J
Benzo[k]fluoranthene	**0.8**	ND	**12D**	0.05	ND	0.19	**15JD**	0.10
Chrysene	**1.0**	0.11J	**34JD**	0.11J	**37JD**	0.42J	**41JD**	0.25J
Dibenz(a,h)anthracene	**0.33**	ND	ND	ND	ND	ND	ND	0.01J
Fluoranthene	**100**	0.24J	**110D**	0.18J	**120JD**	0.73J	**140JD**	0.65
Fluorene	**30**	ND	**100JD**	ND	**110JD**	0.86J	**120JD**	0.38J
Indeno[1,2,3-cd]pyrene	**0.5**	0.06J	**16D**	0.06	**18JD**	0.28	**18JD**	0.13
Naphthalene	**12.0**	7.7B	**2300DB**	0.43B	**2700DB**	9.4B	**2900DB**	5.5B
Phenanthrene	**100**	0.26J	**300D**	0.18J	**330D**	1.4	**350D**	1.4
Pyrene	**100**	0.24J	**210D**	0.19J	**220D**	0.91J	**220JD**	0.94
Total Confident Conc.		9.71	3553	1.57	4098	21.78	4274	11.17
Total Estimated Conc. (TICs)		0*T	0*T	0*T	0*T	0*T	0*T	0*T

BOLD = Concentration exceeds the NYSDEC Soil Cleanup Objective

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TABLE 1
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
April 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-26 (8.5-9.0')	DUP	DUP	S-26 (11.5-12.0')	S-27 (8.0-8.5')	S-27 (11-11.5')	S-28 (10.0-10.5')
Lab Sample No.		460-39572-13	460-39572-21	460-39572-21-DL	460-39572-14	460-39572-15	460-39572-16	460-39572-17
Sampling Date		04/26/2012 07:50:00	04/26/2012	04/26/2012 00:00:00	04/26/2012 08:00:00	04/26/2012	04/26/2012 08:50:00	04/26/2012
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dilution Factor		1000	100	200	50	50	1	50
VOLATILE ORGANIC COMPOUNDS (ppm)								
1,2,4-Trimethylbenzene	**3.6**	**16**	0.12	**15**	-	0.08J	0.01J	0.16J
1,3,5-Trimethylbenzene	**8.4**	5.4	0.06J	**8.4**	-	ND	ND	0.06J
Benzene	**0.06**	ND	**0.07J**	0.16J	-	0.01J	0.01J	0.04J
Ethylbenzene	**1.0**	**27**	0.96	**76**	-	0.07J	0.01	0.11J
Isopropylbenzene	**2.3**	**15**	0.04J	2.1	-	0.04J	0.01	0.12J
MTBE	**0.93**	ND	ND	ND	-	ND	ND	ND
n-Butylbenzene	**12.0**	ND	ND	ND	-	ND	ND	ND
N-Propylbenzene	**3.9**	**8.1**	0.04J	**4.8**	-	0.03J	0.01J	0.03J
p-Isopropyltoluene	**10.0**	2.0J	ND	0.17J	-	ND	ND	0.07J
sec-Butylbenzene	**11.0**	0.59J	ND	0.21J	-	ND	ND	ND
TBA	**NA**	ND	ND	ND	-	ND	ND	ND
tert-Butylbenzene	**5.9**	ND	ND	ND	-	ND	ND	ND
Toluene	**0.7**	0.52J	0.06J	**3.5**	-	ND	0.01J	0.03J
Xylenes, Total	**0.26**	**13**	**0.420**	**62**	-	ND	0.01J	0.18J
Total Confident Conc.	**NA**	87.61	1.75	172.34	-	0.24	0.017	0.80
Total Estimated Conc. (TICs)	**NA**	0*T	0*T	0*T	-	0*T	0*T	0*T
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)								
Acenaphthene	**20**	**600D**	0.91	-	**23JD**	**58D**	1.7	1.3
Acenaphthylene	**100**	ND	ND	-	**200D**	12D	ND	ND
Anthracene	**100**	**120JD**	ND	-	32JD	9.2D	ND	2.3
Benzo[a]anthracene	**1.0**	**81D**	0.05	-	**26D**	**5.3D**	0.07	**2.9**
Benzo[a]pyrene	**1.0**	**86D**	0.05	-	**33D**	**6.3D**	0.08	**2.8**
Benzo[b]fluoranthene	**1.0**	**50JD**	0.06	-	**20D**	**4.5D**	0.09	**2.6**
Benzo[g,h,i]perylene	**100**	47JD	0.04J	-	20JD	4.6JD	0.05J	2.3
Benzo[k]fluoranthene	**0.8**	**22JD**	0.03J	-	**7.8JD**	**2.1D**	0.04J	**1.1**
Chrysene	**1.0**	**67JD**	0.07J	-	**26JD**	**5.1JD**	0.07J	**2.9**
Dibenz(a,h)anthracene	**0.33**	ND	ND	-	ND	ND	ND	**0.45**
Fluoranthene	**100**	**250JD**	0.14J	-	85JD	17D	0.13J	7.2
Fluorene	**30**	**230JD**	0.13J	-	**73JD**	24D	0.17J	0.98
Indeno[1,2,3-cd]pyrene	**0.5**	**32JD**	0.02J	-	**10JD**	**2.9D**	0.05J	**2.4**
Naphthalene	**12.0**	**7800DB**	5.1B	-	**1600DB**	**130DB**	1.2B	2.3B
Phenanthrene	**100**	**680D**	0.2J	-	**230D**	48D	0.17J	8.2
Pyrene	**100**	**410JD**	0.16J	-	**150D**	27D	0.15J	5.1
Total Confident Conc.		10475	6.94	-	2535.8	356	3.96	44.83
Total Estimated Conc. (TICs)		0*T	0*T	-	0.0*T	0*T	0*T	0*T

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Volatile and Semi Volatile Organic Compounds - Open Excavation Area
April 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	MW-2 (8.5-9.0')	MW-3 (9.0-9.5')	MW-3 (9.0-9.5')	MW-3 (11.5-12.0')	MW-4 (9-9.5')	MW-4 (9-9.5')_DL	DUP (9-9.5')
Lab Sample No.		460-00039110-006	460-39572-18	460-39572-18-DL	460-39572-19	460-00039111-005	460-00039111-005_DL	460-00039111-007
Sampling Date		04/12/2012	04/26/2012	04/26/2012	04/26/2012	04/13/2012	04/13/2012	04/13/2012
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dilution Factor		1	2000	50	50	50	50	50
VOLATILE ORGANIC COMPOUNDS (ppm)								
1,2,4-Trimethylbenzene	**3.6**	ND	2.60J	-	0.04J	**4.0**	--	**11**
1,3,5-Trimethylbenzene	**8.4**	ND	1.50J	-	0.03J	1.6	--	3.7
Benzene	**0.06**	ND	ND	-	0.11J	0.05J	--	0.03J
Ethylbenzene	**1.0**	ND	**10**	-	0.11J	**4.6**	--	**11**
Isopropylbenzene	**2.3**	ND	0.77J	-	0.36	1.3	--	**2.5**
MTBE	**0.93**	ND	ND	-	ND	ND	--	ND
n-Butylbenzene	**12.0**	ND	ND	-	ND	ND	--	ND
N-Propylbenzene	**3.9**	ND	0.97J	-	0.04J	1.5	--	3.0
p-Isopropyltoluene	**10.0**	ND	ND	-	0.04J	1.1	--	2.4
sec-Butylbenzene	**11.0**	ND	ND	-	ND	0.74	--	1.7
TBA	**NA**	ND	ND	-	ND	ND	--	ND
tert-Butylbenzene	**5.9**	ND	ND	-	ND	0.36	--	0.77
Toluene	**0.7**	0.01J	ND	-	0.05J	0.05J	--	0.10
Xylenes, Total	**0.26**	ND	**4.1J**	-	0.09J	1.8	--	**3.9**
Total Confident Conc.	**NA**	0.01	19.94	-	0.87	17.10	--	40.1
Total Estimated Conc. (TICs)	**NA**	0	0*T	-	0*T	0	--	0
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)								
Acenaphthene	**20**	ND	-	**16JD**	0.33J	--	**150D**	4.8
Acenaphthylene	**100**	ND	-	35D	ND	--	3.3JD	ND
Anthracene	**100**	0.11J	-	13JD	0.16J	--	50D	1.8
Benzo[a]anthracene	**1.0**	0.20	-	**8.5D**	0.44	--	**26D**	0.76
Benzo[a]pyrene	**1.0**	0.15	-	**10D**	0.47	--	**41D**	0.96
Benzo[b]fluoranthene	**1.0**	0.16	-	**6.4D**	0.52	--	**25D**	0.56
Benzo[g,h,i]perylene	**100**	0.08J	-	5.5JD	0.33J	--	26D	0.53J
Benzo[k]fluoranthene	**0.8**	0.10	-	**2.1JD**	0.24	--	**8.8D**	ND
Chrysene	**1.0**	0.19J	-	**7.2JD**	0.48	--	**26D**	0.75
Dibenz(a,h)anthracene	**0.33**	ND	-	ND	ND	--	**1.1JD**	ND
Fluoranthene	**100**	0.48	-	23JD	0.86	--	92D	3.0
Fluorene	**30**	ND	-	22JD	0.09J	--	**57D**	1.9
Indeno[1,2,3-cd]pyrene	**0.5**	0.07	-	**3.7D**	0.33	--	**16D**	0.3
Naphthalene	**12.0**	0.05J	-	**460DB**	3.7B	--	**390D**	9.4
Phenanthrene	**100**	0.55	-	63D	0.74	--	**190D**	6.6
Pyrene	**100**	0.43	-	39D	0.84	--	**130D**	4.3
Total Confident Conc.		2.56	-	714.4	9.53	--	1232.2	35.66
Total Estimated Conc. (TICs)		0	-	0*T	0*T	--	0	0

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TABLE 1
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
April 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	MW-4 (14.5-15')	MW-5 (8-8.5')	TP-4 (6.5-7')	TP-7 (7.5-8.0')	TP-7 (7.5-8.0')_DL	TP-8 (10.5-11')	TP-8 (7-7.5')
Lab Sample No.		460-00039111-006	460-00039111-002	460-00038871-002	460-00038732-001	460-00038732-001_DL	460-00039338-002	460-00039338-003
Sampling Date		04/13/2012	04/13/2012	04/5/2012	04/4/2012	04/4/2012	4/18/2012 10:55:00 AM	4/18/2012 11:05:00 AM
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dilution Factor		1	1	1	50	10	50	1000
VOLATILE ORGANIC COMPOUNDS (ppm)								
1,2,4-Trimethylbenzene	**3.6**	0.01J	ND	ND	**5.6**	-	0.04J	1.9
1,3,5-Trimethylbenzene	**8.4**	ND	ND	ND	2.3	-	ND	0.79
Benzene	**0.06**	0.01J	0.01	ND	0.05J	-	**0.13**	ND
Ethylbenzene	**1.0**	0.01J	0.01	ND	**4.1**	-	0.3	0.89
Isopropylbenzene	**2.3**	0.01J	0.01J	ND	**1.5**	-	0.12	0.83
MTBE	**0.93**	ND	ND	ND	ND	-	ND	ND
n-Butylbenzene	**12.0**	ND	ND	ND	ND	-	0.05J	ND
N-Propylbenzene	**3.9**	ND	ND	ND	1.2	-	0.11	0.51
p-Isopropyltoluene	**10.0**	ND	ND	ND	1.4	-	0.07J	0.35
sec-Butylbenzene	**11.0**	ND	ND	ND	0.5	-	0.04J	ND
TBA	**NA**	ND	ND	ND	ND	-	ND	ND
tert-Butylbenzene	**5.9**	ND	ND	ND	ND	-	0.02J	ND
Toluene	**0.7**	0.01J	0.01	0.01J	0.05J	-	0.04J	ND
Xylenes, Total	**0.26**	ND	ND	ND	**1.2**	-	0.07J	ND
Total Confident Conc.	**NA**	0.01	0.01	0.01	17.90	-	0.1	5.27
Total Estimated Conc. (TICs)	**NA**	0	0	0	0	-	0	0
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)								
Acenaphthene	**20**	6.3	7.9	ND	-	56D	8.1	38
Acenaphthylene	**100**	ND	0.62J	ND	-	ND	0.19J	10
Anthracene	**100**	0.08J	0.98	0.06J	-	12D	1.1	46
Benzo[a]anthracene	**1.0**	0.05	**1.2**	0.22	-	**6.4D**	**1.0**	**36**
Benzo[a]pyrene	**1.0**	0.04	**1.2**	0.27	-	**7.0D**	**1.0**	**40**
Benzo[b]fluoranthene	**1.0**	0.04	**1.3**	0.34	-	**5.0D**	0.92	**24**
Benzo[g,h,i]perylene	**100**	ND	0.62J	0.19J	-	5.0D	0.6	26
Benzo[k]fluoranthene	**0.8**	ND	0.58	0.14	-	**1.8D**	0.36	**12**
Chrysene	**1.0**	0.05J	**1.4**	0.27J	-	**6.3D**	0.91	**33**
Dibenz(a,h)anthracene	**0.33**	ND	0.10	0.05	-	0.28JD	ND	ND
Fluoranthene	**100**	0.17J	3.2	0.53	-	22D	2.5	96
Fluorene	**30**	0.45	2.2	ND	-	19D	1.7	**39**
Indeno[1,2,3-cd]pyrene	**0.5**	0.01J	**0.54**	0.2	-	**3.2D**	0.48	**18**
Naphthalene	**12.0**	5.7	7.1	ND	-	**19D**	6.8	3.6
Phenanthrene	**100**	0.55	3.7	0.33J	-	53D	5.6	**230**
Pyrene	**100**	0.23J	2.6	0.44	-	37D	5.3	**150**
Total Confident Conc.		13.67	35.24	3.03		252.98	36.56	801.6
Total Estimated Conc. (TICs)		0	0	0		0	0	0

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TABLE 1
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
April 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID		FB	FB	FB	FB	FB	FB	FB
Lab Sample No.	DEC CP-51 Soil	460-00038732-002	460-00038871-001	460-00039110-009	460-00039111-008	460-00039338-001	460-39572-20	460-00039811-002
Sampling Date	Cleanup	4/4/2012 1:30:00 PM	4/5/2012 9:05:00 AM	4/12/2012 12:45:00 PM	4/13/2012 10:15:00 AM	4/18/2012 9:15:00 AM	4/26/2012 10:45	4/30/2012 10:00
Matrix	Objectives	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	1	1	1	1	1
VOLATILE ORGANIC COMPOUNDS (ppm)								
1,2,4-Trimethylbenzene	**3.6**	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**8.4**	ND	ND	ND	ND	ND	ND	ND
Benzene	**0.06**	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**1.0**	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**2.3**	ND	ND	ND	ND	ND	ND	ND
MTBE	**0.93**	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	**12.0**	ND	ND	ND	ND	ND	ND	ND
N-Propylbenzene	**3.9**	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	**10.0**	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	**11.0**	ND	ND	ND	ND	ND	ND	ND
TBA	**NA**	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	**5.9**	ND	ND	ND	ND	ND	ND	ND
Toluene	**0.7**	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	**0.26**	ND	ND	ND	ND	ND	ND	ND
Total Confident Conc.	**NA**	0	0	0	0	0	0	0
Total Estimated Conc. (TICs)	**NA**	0	0	0	0	0	0	0
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)								
Acenaphthene	**20**	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	**100**	ND	ND	ND	ND	ND	ND	ND
Anthracene	**100**	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	**1.0**	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	**1.0**	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	**1.0**	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	**100**	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	**0.8**	ND	ND	ND	ND	ND	ND	ND
Chrysene	**1.0**	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	**0.33**	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**100**	ND	ND	ND	ND	ND	ND	ND
Fluorene	**30**	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	**0.5**	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**12.0**	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**100**	ND	ND	ND	ND	ND	ND	ND
Pyrene	**100**	ND	ND	ND	ND	ND	ND	ND
Total Confident Conc.		0	0	0	0	0	0	0
Total Estimated Conc. (TICs)		0	0	0	0	0	0	0

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TABLE 4
Groundwater Analytical Results
May 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, NY

WELL NO.	NYS TOGS AWQS	MW-1R	MW-2	MW-3	MW-5	DUP	MW-6	MW-7	FB	TB	FB	TB
Lab Sample No.		460-40230-3	460-00039815-003	460-40230-2	460-00039815-004	460-00039815-005	460-00039815-001	460-00039815-002	460-00039815-007	460-00039815-006	460-40230-4	460-40230-5
Sampling Date		5/14/2012	5/2/2012	5/14/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/14/2012	5/14/2012
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	20	1	1	1	1	1	1	1	1
Units	ug/l	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
VOLATILE COMPOUNDS												
1,1,1-Trichloroethane	**5**	0.16J	0.06U	1.2U	0.06U	0.06U	0.06U	0.06U	0.06U	0.06U	0.06U	0.06U
1,1,2,2-Tetrachloroethane	**5**	0.16U	0.16U	3.2U	0.16U	0.16U	0.16U	0.16U	0.16U	0.16U	0.16U	0.16U
1,1,2-Trichloroethane	**1**	0.19U	0.19U	**3.8U**	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
1,1-Dichloroethane	**5**	0.65J	0.13U	2.6U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U
1,1-Dichloroethene	**5**	0.09U	0.09U	1.8U	0.09U	0.09U	0.09U	0.09U	0.09U	0.09U	0.09U	0.09U
1,2,4-Trichlorobenzene	**5**	0.34U	0.34U	6.8U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
1,2-Dibromo-3-Chloropropane	**0.04**	**0.40U**	**0.40U**	**8.0U**	**0.40U**	**0.40U**	**0.40U**	**0.40U**	**0.40U**	**0.40U**	**0.40U**	**0.40U**
1,2-Dibromoethane	**NA**	0.28U	0.28U	5.6U	0.28U	0.28U	0.28U	0.28U	0.28U	0.28U	0.28U	0.28U
1,2-Dichlorobenzene	**3**	0.21U	0.21U	**4.2U**	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U
1,2-Dichloroethane	**0.6**	0.19U	0.19U	**3.8U**	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
1,2-Dichloropropane	**1**	0.09U	0.09U	**1.8U**	0.09U	0.09U	0.09U	0.09U	0.09U	0.09U	0.09U	0.09
1,3-Dichlorobenzene	**3**	0.14U	0.14U	2.8U	0.14U	0.14U	0.14U	0.14U	0.14U	0.14U	0.14U	0.14U
1,4-Dichlorobenzene	**3**	0.23U	0.23U	4.6U	0.23U	0.23U	0.23U	0.23U	0.23U	0.23U	0.23U	0.23U
2-Butanone	**50**	2.3U	2.3U	46U	2.3U	2.3U	2.3U	2.3U	2.3U	2.3U	2.3U	2.3U
2-Hexanone	**50**	0.50U	0.50U	10U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U
4-Methyl-2-pentanone	**NA**	0.99U	0.99U	20U	0.99U	0.99U	0.99U	0.99U	0.99U	0.99U	0.99U	0.99U
Acetone	**50**	2.7U	2.7U	**54U**	2.7U	2.7U	7.8	2.7U	2.7U	2.7U	2.7U	2.7U
Benzene	**1**	0.46J	0.08U	**29**	0.68J	0.66J	**4.0**	0.08U	0.08U	0.08U	0.08U	0.08U
Bromodichloromethane	**50**	0.12U	0.12U	2.4U	0.12U	0.12U	0.12U	0.12U	0.12U	0.12U	0.12U	0.12U
Bromoform	**50**	0.19U	0.19U	3.8U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19
Bromomethane	**5**	0.18U	0.18U	3.6U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U
Carbon disulfide	**NA**	0.65J	0.13U	2.6U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U
Carbon tetrachloride	**5**	0.06U	0.06	1.2U	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Chlorobenzene	**5**	0.11U	0.11U	2.2U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U	0.11U
Chloroethane	**5**	0.17U	0.17U	3.4U	0.17U	0.17U	0.17U	0.17U	0.17U	0.17U	0.17U	0.17U
Chloroform	**7**	1.5	0.08U	1.6U	0.08U	0.08U	0.08U	0.08U	0.08U	0.08U	0.08U	0.08U
Chloromethane	**5**	0.10U	0.10U	2.0U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
cis-1,2-Dichloroethene	**5**	0.18U	0.18U	3.6U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U
cis-1,3-Dichloropropene	**0.4**	0.18U	0.18U	**3.6U**	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U
Cyclohexane	**NA**	0.16U	0.16U	3.2U	0.16U	0.16U	0.16U	0.16U	0.16U	0.16U	0.16U	0.16U
Dibromochloromethane	**50**	0.20U	0.20U	4.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Dichlorodifluoromethane	**5**	0.22U	0.22U	4.4U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U
Ethylbenzene	**5**	0.47J	0.10U	**420**	0.23J	0.20J	2.8	0.13J	0.10U	0.10U	0.10U	0.10U
Freon TF	**NA**	0.08U	0.08U	1.6U	0.08U	0.08U	0.08U	0.08U	0.08U	0.08U	0.08U	0.08U
Isopropylbenzene	**5**	0.17J	0.08U	**20**	1.8	1.7	0.89J	0.53J	0.08U	0.08U	0.08U	0.08U
Methyl acetate	**NA**	0.34U	0.34U	6.8U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
Methylcyclohexane	**NA**	0.14U	0.14U	2.8U	0.14U	0.14U	0.14U	0.14U	0.14U	0.14U	0.14U	0.14U
Methylene Chloride	**5**	0.18U	0.18U	3.6U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U	0.18U
MTBE	**NA**	0.14U	0.14U	2.8U	0.14U	0.14U	0.38J	0.38J	0.14U	0.14U	0.14U	0.14U
Styrene	**5**	0.12U	0.12U	**75**	0.12U	0.12U	0.74J	0.74J	0.12U	0.12U	0.12U	0.12U
Tetrachloroethene	**5**	0.10U	0.10U	2.0U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
Toluene	**5**	0.57J	0.15U	**25**	0.15U	0.15U	**5.9**	0.22J	0.15U	0.15U	0.15U	0.15U
trans-1,2-Dichloroethene	**5**	0.13U	0.13U	2.6U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U
trans-1,3-Dichloropropene	**NA**	0.24U	0.24U	4.8U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U
Trichloroethene	**5**	0.09U	0.09U	1.8U	0.09U	0.09U	0.09U	0.09U	0.09U	0.09U	0.09U	0.09U
Trichlorofluoromethane	**5**	0.15U	0.19J	3.0U	0.15U	0.15U	0.15U	0.15U	0.15U	0.15U	0.15U	0.15U
Vinyl chloride	**2**	0.14U	ND	**2.8U**	0.14U	0.14U	0.14U	0.14U	0.14U	0.14U	0.14U	0.14U
Xylenes, Total	**5**	1.3J	ND	**140**	0.55J	0.48J	**19**	0.46J	0.36U	0.36U	0.36U	0.36U
Total Confident Conc.	**NA**	5.93	0.19	709	3.26	3.04	41.51	1.34	0	0	0	0
Total Estimated Conc. (TICs)	**NA**	187.1	8.3	15,670	95.98	79	933.4	89	0	0	0	0

TABLE 4
Groundwater Analytical Results
May 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, NY

WELL NO.	NYS TOGS AWQS	MW-1R	MW-2	MW-3	MW-5	DUP	MW-6	MW-7	FB	TB	FB	TB
Lab Sample No.		460-40230-3	460-00039815-003	460-40230-2	460-00039815-004	460-00039815-005	460-00039815-001	460-00039815-002	460-00039815-007	460-00039815-006	460-40230-4	460-40230-5
Sampling Date		5/14/2012	5/2/2012	5/14/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/14/2012	5/14/2012
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	20	1	1	1	1	1	1	1	1
Units	ug/l	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SEMIVOLATILE COMPOUNDS												
2,2'-oxybis[1-chloropropane]	**NA**	2.0U	2.0U	100U	2.0U	2.0U	2.0U	2.0U	2.0U	NR	2.0U	NR
2,4,5-Trichlorophenol	**NA**	NR	2.7U	NR	2.7U	2.7U	2.7U	2.7U	2.7U	NR	NR	NR
2,4,6-Trichlorophenol	**NA**	NR	2.4U	NR	2.4U	2.4U	2.4U	2.4U	2.4U	NR	NR	NR
2,4-Dichlorophenol	**2**	**2.6U**	**2.7U**	**130U**	**2.7U**	**2.7U**	**2.7U**	**2.7U**	**2.7U**	NR	**2.6U**	NR
2,4-Dimethylphenol	**2**	NR	3.5U	NR	3.5U	3.5U	**85**	3.5U	3.5U	NR	NR	NR
2,4-Dinitrophenol	**2**	NR	5.5U	NR	5.5U	5.5U	5.5U	5.5U	5.5U	NR	NR	NR
2,4-Dinitrotoluene	**5**	0.47U	0.48U	**24U**	0.48U	0.48U	0.48U	0.48U	0.48U	NR	0.47U	NR
2,6-Dinitrotoluene	**5**	0.62U	0.62U	**31U**	0.62U	0.62U	0.62U	0.62U	0.62U	NR	0.62U	NR
2-Chloronaphthalene	**10**	2.7U	2.8U	**140U**	2.8U	2.8U	2.8U	2.8U	2.8U	NR	2.7U	NR
2-Chlorophenol	**NA**	NR	2.2U	NR	2.2U	2.2U	2.2U	2.2U	2.2U	NR	NR	NR
2-Methylnaphthalene	**50**	3.0U	3.1U	**230J**	3.1U	3.1U	49	3.1U	3.1U	NR	3.0U	NR
2-Methylphenol	**5**	NR	1.8U	NR	1.8U	1.8U	**25**	1.8U	1.8U	NR	NR	NR
2-Nitroaniline	**5**	4.9U	5.0U	**250U**	5.0U	5.0U	5.0U	5.0U	5.0U	NR	4.9U	NR
2-Nitrophenol	**NA**	NR	2.4U	NR	2.4U	2.4U	2.4U	2.4U	2.4U	NR	NR	NR
3,3'-Dichlorobenzidine	**5**	4.9U	5.0U	**250U**	5.0U	5.0U	5.0U	5.0U	5.0U	NR	4.9U	NR
3-Nitroaniline	**5**	**5.1U**	5.1U	**250U**	5.1U	5.1U	5.1U	5.1U	5.1U	NR	**5.1U**	NR
4,6-Dinitro-2-methylphenol	**NA**	NR	4.8U	NR	4.8U	4.8U	4.8U	4.8U	4.8U	NR	NR	NR
4-Bromophenyl phenyl ether	**NA**	2.5U	2.6U	130U	2.6U	2.6U	2.6U	2.6U	2.6U	NR	2.5U	NR
4-Chloro-3-methylphenol	**NA**	NR	2.6U	NR	2.6U	2.6U	2.6U	2.6U	2.6U	NR	NR	NR
4-Chloroaniline	**5**	2.0U	2.0U	**100U**	2.0U	2.0U	2.0U	2.0U	2.0U	NR	2.0U	NR
4-Chlorophenyl phenyl ether	**NA**	2.5U	2.6U	130U	2.6U	2.6U	2.6U	2.6U	2.6U	NR	2.5U	NR
4-Methylphenol	**NA**	NR	1.6U	NR	1.6U	1.6U	22	1.6U	1.6U	NR	NR	NR
4-Nitroaniline	**5**	**5.9U**	**5.9U**	**290U**	**5.9U**	**5.9U**	**5.9U**	**5.9U**	**5.9U**	NR	**5.9U**	NR
4-Nitrophenol	**NA**	NR	6.8U*	NR	6.8U*	6.8U*	6.8U*	6.8U*	6.8U*	NR	NR	NR
Acenaphthene	**20**	**39**	2.8U	**140U**	**70**	**74**	**110**	2.8U	2.8U	NR	2.7U	NR
Acenaphthylene	**50**	2.7U	2.8U	**190J**	2.8U	2.8U	3.0J	2.8U	2.8U	NR	2.7U	NR
Acetophenone	**NA**	2.7U	2.8U	140U	2.8U	2.8U	2.8U	2.8U	2.8U	NR	2.7U	NR
Anthracene	**50**	6.0J	2.9U	**140U**	4.6J	4.2J	31	2.9U	2.9U	NR	2.8U	NR
Atrazine	**7.5**	3.0U	3.1U	**150U**	3.1U	3.1U	3.1U	3.1U	3.1U	NR	3.0U	NR
Benzaldehyde	**NA**	2.0U*	2.0U	100U*	2.0U	2.0U	2.0U	2.0U	2.0U	NR	2.0U*	NR
Benzo[a]anthracene	**0.002**	**0.90J**	**0.53J**	**14U**	0.28U	**0.62J**	**4.5**	0.28U	0.28U	NR	**0.27U**	NR
Benzo[a]pyrene	**0.002**	**0.58J**	**0.28J**	**7.1U**	0.14U	**0.31J**	**3.2**	0.14U	0.14U	NR	**0.14U**	NR
Benzo[b]fluoranthene	**0.002**	**0.46J**	0.27U	**13U**	0.27U	**0.30J**	**3.5**	0.27U	0.27U	NR	**0.26U**	NR
Benzo[g,h,i]perylene	**5**	2.0U	2.0U	**100U**	2.0U	2.0U	2.0U	2.0U	2.0U	NR	2.0U	NR
Benzo[k]fluoranthene	**0.002**	**0.34J**	0.27U	**13U**	0.27U	0.27U	1.7	0.27U	0.27U	NR	**0.26U**	NR
Bis(2-chloroethoxy)methane	**5**	2.6U	2.7U	**130U**	2.7U	2.7U	2.7U	2.7U	2.7U	NR	2.6U	NR
Bis(2-chloroethyl)ether	**1.0**	0.28U	0.29U	**14U**	0.29U	0.29U	0.29U	0.29U	0.29U	NR	0.28U	NR
Bis(2-ethylhexyl) phthalate	**5**	2.0U	2.3J	**100U**	2.0U	2.0U	2.0U	2.0U	2.0U	NR	2.0U	NR
Butyl benzyl phthalate	**50**	2.5U	2.6U	**130U**	2.6U	2.6U	2.6U	2.6U	2.6U	NR	2.5U	NR
Caprolactam	**NA**	2.5U	2.6U	130U	2.6U	2.6U	2.6U	2.6U	2.6U	NR	2.5U	NR
Carbazole	**NA**	28	3.3U	160U	3.3U	3.3U	190	3.3U	3.3U	NR	3.2U	NR
Chrysene	**0.002**	**3.1U**	**3.2U**	**160U**	**3.2U**	**3.2U**	**5.9J**	**3.2U**	**3.2U**	NR	**3.1U**	NR
Dibenz(a,h)anthracene	**50**	0.09U	0.09U	4.5U	0.09U	0.09U	0.30J	0.092U	0.092U	NR	0.091U	NR
Dibenzofuran	**NA**	16	2.9U	140U	2.9U	2.9U	60	2.9U	2.9U	NR	2.8U	NR
Diethyl phthalate	**50**	2.9U	3.0U	**150U**	3.0U	3.0U	3.0U	3.0U	3.0U	NR	2.9U	NR
Dimethyl phthalate	**50**	2.8U	2.9U	**140U**	2.9U	2.9U	2.9U	2.9U	2.9U	NR	2.8U	NR
Di-n-butyl phthalate	**50**	2.9U	3.0U	**150U**	3.0U	3.0U	3.0U	3.0U	3.0U	NR	2.9U	NR
Di-n-octyl phthalate	**50**	1.5U	1.5U	**76U**	1.5U	1.5U	1.5U	1.5U	1.5U	NR	1.5U	NR
Diphenyl	**NA**	3.8J	2.9U	140U	2.9U	2.9U	12	2.9U	2.9U	NR	2.8U	NR
Fluoranthene	**50**	5.1J	3.3U	**160U**	3.4J	4.2J	22	3.3U	3.3U	NR	3.2U	NR
Fluorene	**50**	22	2.9U	**140U**	17	15	**67**	2.9U	2.9U	NR	2.8U	NR

TABLE 4
Groundwater Analytical Results
May 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, NY

WELL NO.	NYS TOGS AWQS	MW-1R	MW-2	MW-3	MW-5	DUP	MW-6	MW-7	FB	TB	FB	TB
Lab Sample No.		460-40230-3	460-00039815-003	460-40230-2	460-00039815-004	460-00039815-005	460-00039815-001	460-00039815-002	460-00039815-007	460-00039815-006	460-40230-4	460-40230-5
Sampling Date		5/14/2012	5/2/2012	5/14/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/2/2012	5/14/2012	5/14/2012
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	20	1	1	1	1	1	1	1	1
Units	ug/l	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Hexachlorobenzene	**0.04**	**0.29U**	**0.30U**	**15U**	**0.30U**	**0.30U**	**0.30U**	**0.30U**	**0.30U**	NR	**0.29U**	NR
Hexachlorobutadiene	**0.5**	**0.58U**	**0.58U**	**29U**	**0.58U**	**0.58U**	**0.58U**	**0.58U**	**0.58U**	NR	**0.58U**	NR
Hexachlorocyclopentadiene	**5**	1.7U	1.7U	**86U**	1.7U	1.7U	1.7U	1.7U	1.7U	NR	1.7U	NR
Hexachloroethane	**5**	0.25U	0.26U	**13U**	0.26U	0.26U	0.26U	0.26U	0.26U	NR	0.25U	NR
Indeno[1,2,3-cd]pyrene	**0.002**	**0.36J**	**0.15U**	**7.6U**	**0.15U**	**0.15U**	**1.5**	**0.15U**	**0.15U**	NR	**0.15U**	NR
Isophorone	**50**	2.7U	2.8U	**140U**	2.8U	2.8U	2.8U	2.8U	2.8U	NR	2.7U	NR
Naphthalene	**10**	2.7U	2.8U	**5,800**	2.8U	2.8U	**120**	2.8U	2.8U	NR	2.7U	NR
Nitrobenzene	**0.4**	0.30U	0.31U	**15U**	0.31U	0.31U	0.31U	0.31U	0.31U	NR	0.30U	NR
N-Nitrosodi-n-propylamine	**NA**	0.25U	0.26U	13U	0.26U	0.26U	0.26U	0.26U	0.26U	NR	0.25U	NR
N-Nitrosodiphenylamine	**50**	2.9U	3.0U	**150U**	3.0U	3.0U	3.0U	3.0U	3.0U	NR	2.9U	NR
Pentachlorophenol	**2**	NR	5.4U	NR	5.4U	5.4U	5.4U	5.4U	5.4U	NR	NR	NR
Phenanthrene	**50**	36	3.2U	**160U**	4.3J	3.2U	**110**	3.2U	3.2U	NR	3.1U	NR
Phenol	**2**	NR	0.83U	NR	0.83U	0.83U	**5.6J**	0.83U	0.83U	NR	NR	NR
Pyrene	**50**	4.6J	3.0U	**150U**	3.9J	4.8J	18	3.0U	3.0U	NR	2.9U	NR
Total Confident Conc.	**NA**	163.14	3.11	6,220	103.2	103.43	950.2	0	0		0	
Total Estimated Conc. (TICs)	**NA**	78.1	0	6,630	81	92	507	72	0		0	

Notes
NA: Not Available
NR: Not analyzed.
*: Recovery or RPD exceeds control limits
D: Sample results are obtained from a dilution
U: Indicates the analyte was analyzed for but not detected.
J: Results is than the RL but greater than or equal to the MDL
TOGS: Technical & Operational Guidance
AWQS: Ambient Water Quality Standards
Bold: Method Detection Limit (MDL) exceeds AWQS
Bold and shaded: Concentration exceedsAWQS
All samples have been rounded to the hundredth decimal place, for full results please refer to the Lab reports

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID		S-29(9.5-10')		S-29(10.5-11')		S-30(12.5-13')		S-30(14-14.5')		S-31(10-10.5')		S-31(14-14.5')		S-32(10-10.5')		S-32(14.5-15')		S-33(9-9.5')	
Lab Sample No.	DEC CP-51 Soil Cleanup Objectives	460-48696-8		460-48696-9		460-48632-8		460-48632-9		460-48632-12		460-48632-13		460-48696-6		460-48696-7		460-48696-15	
Sampling Date		12/18/2012		12/18/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/18/2012		12/18/2012		12/18/2012	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor		1		1		50		1		100		1		50		1		500	
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
1,1,1-Trichloroethane	**0.680**	ND	0.00033	ND	0.00026	ND	0.0078	ND	0.00044	ND	0.033	ND	0.00021	ND	0.014	ND	0.00039	ND	0.22
1,1,2,2-Tetrachloroethane	**NA**	ND	0.00023	ND	0.00018	ND	0.020	ND	0.00030	ND	0.084	ND	0.00015	ND	0.036	ND	0.00027	ND	0.57
1,1,2-Trichloroethane	**NA**	ND	0.00035	ND	0.00028	ND	0.023	ND	0.00047	ND	0.10	ND	0.00023	ND	0.043	ND	0.00042	ND	0.67
1,1-Dichloroethane	**0.270**	ND	0.00028	ND	0.00022	ND	0.016	ND	0.00037	ND	0.069	ND	0.00018	ND	0.03	ND	0.00033	ND	0.47
1,1-Dichloroethene	**0.330**	ND	0.00048	ND	0.00038	ND	0.011	ND	0.00064	ND	0.047	ND	0.00031	ND	0.02	ND	0.00057	ND	0.32
1,2-Dichloroethane	**0.020**	ND	0.00045	ND	0.00036	ND	0.024	ND	0.00061	ND	0.10	ND	0.00030	ND	0.043	ND	0.00054	ND	0.68
1,2-Dichloropropane	**NA**	ND	0.00038	ND	0.0003	ND	0.011	ND	0.00051	ND	0.046	ND	0.00025	ND	0.02	ND	0.00045	ND	0.31
2-Butanone	**0.120**	0.04	0.0016	0.01J	0.0013	ND	0.29	0.02J	0.0021	ND	1.2	0.01J	0.001	ND	0.53	0.02J	0.0019	ND	8.3
2-Hexanone	**NA**	ND	0.00033	ND	0.00026	ND	0.063	ND	0.00044	ND	0.27	ND	0.00021	ND	0.11	ND	0.00039	ND	1.8
4-Methyl-2-pentanone	**NA**	ND	0.0005	0.01J	0.0004	ND	0.12	ND	0.00068	ND	0.52	ND	0.00033	ND	0.23	0.01J	0.00060	ND	3.5
Acetone	**0.050**	**0.12**	0.0043	0.03B	0.0034	ND	0.34	**0.08B**	0.0057	ND	1.4	**0.06B**	0.0028	ND	0.62	**0.07B**	0.0051	ND	9.6
Benzene	**0.060**	0.01	0.00038	ND	0.0003	0.02J	0.010	ND	0.00051	ND	0.044	0.01J	0.00025	0.26	0.019	ND	0.00045	ND	0.3
Bromodichloromethane	**NA**	ND	0.00081	ND	0.00064	ND	0.016	ND	0.0011	ND	0.066	ND	0.00053	ND	0.029	ND	0.00097	ND	0.45
Bromoform	**NA**	ND	0.00043	ND	0.00034	ND	0.024	ND	0.00058	ND	0.10	ND	0.00028	ND	0.044	ND	0.00051	ND	0.69
Bromomethane	**NA**	ND	0.0011	ND	0.00086	ND	0.023	ND	0.0015	ND	0.096	ND	0.00071	ND	0.042	ND	0.0013	ND	0.65
Carbon disulfide	**NA**	0.01J	0.00038	0.01J	0.0003	ND	0.016	0.01J	0.00051	ND	0.067	0.01J	0.00025	ND	0.029	0.01J	0.00045	ND	0.45
Carbon tetrachloride	**0.760**	ND	0.00038	ND	0.0003	ND	0.0071	ND	0.00051	ND	0.030	ND	0.00025	ND	0.013	ND	0.00045	ND	0.2
Chlorobenzene	**1.100**	ND	0.00045	ND	0.00036	ND	0.014	ND	0.00061	0.75	0.059	0.05	0.00030	**3**	0.025	ND	0.00054	ND	0.4
Chloroethane	**NA**	ND	0.00083	ND	0.00066	ND	0.021	ND	0.0011	ND	0.090	ND	0.00054	ND	0.039	ND	0.001	ND	0.61
Chloroform	**0.370**	ND	0.0006	ND	0.00048	ND	0.0098	ND	0.00081	ND	0.042	ND	0.00040	ND	0.018	ND	0.00073	ND	0.28
Chloromethane	**NA**	ND	0.0004	ND	0.00032	ND	0.012	ND	0.00054	ND	0.051	ND	0.00026	ND	0.022	ND	0.00048	ND	0.35
cis-1,2-Dichloroethene	**0.250**	ND	0.00028	ND	0.00022	ND	0.022	ND	0.00037	ND	0.094	ND	0.00018	ND	0.041	ND	0.00033	ND	0.64
cis-1,3-Dichloropropene	**NA**	ND	0.00035	ND	0.00028	ND	0.023	ND	0.00047	ND	0.098	ND	0.00023	ND	0.042	ND	0.00042	ND	0.66
Dibromochloromethane	**NA**	ND	0.00025	ND	0.0002	ND	0.025	ND	0.00034	ND	0.11	ND	0.00016	ND	0.046	ND	0.00030	ND	0.72
Ethylbenzene	**1.0**	0.05	0.00043	ND	0.00034	0.16	0.012	ND	0.00058	0.34J	0.051	0.01	0.00028	0.34	0.022	ND	0.00051	**5.1**	0.34
Methylene Chloride	**0.050**	0.01JB	0.00038	0.01JB	0.0003	ND	0.023	0.01J	0.00051	ND	0.097	0.01	0.00025	ND	0.042	0.01JB	0.00045	ND	0.65
Styrene	**NA**	ND	0.00071	ND	0.00056	ND	0.015	ND	0.00095	0.23J	0.063	ND	0.00046	ND	0.027	ND	0.00085	15	0.43
Tetrachloroethene	**13.0**	ND	0.0003	ND	0.00024	ND	0.012	ND	0.00041	ND	0.052	ND	0.00020	ND	0.022	ND	0.00036	ND	0.35
Toluene	**0.700**	0.01J	0.00035	ND	0.00028	ND	0.019	ND	0.00047	ND	0.079	ND	0.00023	0.08J	0.034	ND	0.00042	**1.7J**	0.54
trans-1,2-Dichloroethene	**0.190**	ND	0.00033	ND	0.00026	ND	0.016	ND	0.00044	ND	0.068	ND	0.00021	ND	0.03	ND	0.00039	ND	0.46
trans-1,3-Dichloropropene	**NA**	ND	0.00025	ND	0.0002	ND	0.030	ND	0.00034	ND	0.13	ND	0.00016	ND	0.056	ND	0.00030	ND	0.87
Trichloroethene	**0.470**	ND	0.003	ND	0.00024	ND	0.012	ND	0.00041	ND	0.049	ND	0.00020	ND	0.021	ND	0.00036	ND	0.33
Vinyl chloride	**0.020**	ND	0.00086	ND	0.00068	ND	0.018	ND	0.0012	ND	0.077	ND	0.00056	ND	0.033	ND	0.001	ND	0.52
Xylenes, Total	**0.260**	0.01	0.0017	ND	0.0013	0.10J	0.045	ND	0.0023	**0.43J**	0.19	ND	0.0011	**0.52J**	0.083	ND	0.002	**7.8J**	1.3
Total Conc	**NA**	0.18J		0.05		0.28J		0.10J		1.75J		0.08J		4.20J		0.09J		29.6	
Estimated Conc. (TICs)	**NA**	3.61		0.12		59.01		0.21		667.8		3.26		168		0.0*T		1,199	

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID		S-29(9.5-10')		S-29(10.5-11')		S-30(12.5-13')		S-30(14-14.5')		S-31(10-10.5')		S-31(14-14.5')		S-32(10-10.5')		S-32(14.5-15')		S-33(9-9.5')	
Lab Sample No.	DEC CP-51 Soil	460-48696-8		460-48696-9		460-48632-8		460-48632-9		460-48632-12		460-48632-13		460-48696-6		460-48696-7		460-48696-15	
Sampling Date	Cleanup	12/18/2012		12/18/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/18/2012		12/18/2012		12/18/2012	
Matrix	Objectives	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor		1		1		50		1		100		1		50		1		500	
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
1,2,4-Trichlorobenzene	**NA**	ND	0.044	ND	0.0048	ND	0.0089	ND	0.023	ND	0.50	ND	0.0089	ND	0.25	ND	0.0045	ND	1.9
1,2-Dichlorobenzene	**1.1**	ND	0.45	ND	0.049	ND	0.091	ND	0.23	ND	5.1	ND	0.091	ND	2.5	ND	0.046	ND	19
1,3-Dichlorobenzene	**2.4**	ND	0.35	ND	0.038	ND	0.071	ND	0.18	ND	4.0	ND	0.071	ND	2	ND	0.036	ND	15
1,4-Dichlorobenzene	**1.8**	ND	0.44	ND	0.047	ND	0.088	ND	0.22	**8.8JD**	5.0	ND	0.088	ND	2.5	ND	0.045	ND	19
2,4-Dinitrotoluene	**NA**	ND	0.13	ND	0.014	ND	0.026	ND	0.066	ND	1.5	ND	0.026	ND	0.72	ND	0.013	ND	5.5
2,6-Dinitrotoluene	**NA**	ND	0.12	ND	0.013	ND	0.024	ND	0.060	ND	1.3	ND	0.024	ND	0.66	ND	0.012	ND	5
2-Chloronaphthalene	**NA**	ND	0.43	ND	0.047	ND	0.087	ND	0.22	ND	4.9	ND	0.088	ND	2.4	ND	0.044	ND	19
2-Methylnaphthalene	**NA**	4.2D	0.5	0.77	0.054	2.3	0.10	0.89J	0.26	81D	5.7	0.17J	0.10	98D	2.8	0.05J	0.051	370D	21
2-Nitroaniline	**NA**	ND	1.6	ND	0.18	ND	0.33	ND	0.83	ND	18	ND	0.33	ND	9.1	ND	0.16	ND	69
3,3'-Dichlorobenzidine	**NA**	ND	1.4	ND	0.15	ND	0.27	ND	0.70	ND	16	ND	0.28	ND	7.6	ND	0.14	ND	58
3-Nitroaniline	**NA**	ND	1.4	ND	0.15	ND	0.28	ND	0.70	ND	16	ND	0.28	ND	7.7	ND	0.14	ND	59
4-Bromophenyl phenyl ether	**NA**	ND	0.38	ND	0.042	ND	0.078	ND	0.20	ND	4.4	ND	0.078	ND	2.2	ND	0.039	ND	16
4-Chloroaniline	**NA**	ND	1	ND	0.11	ND	0.21	ND	0.53	ND	12	ND	0.21	ND	5.8	ND	0.1	ND	44
4-Chlorophenyl phenyl ether	**NA**	ND	0.45	ND	0.049	ND	0.092	ND	0.23	ND	5.2	ND	0.092	ND	2.6	ND	0.046	ND	20
4-Nitroaniline	**NA**	ND	1.2	ND	0.13	ND	0.24	ND	0.62	ND	14	ND	0.24	ND	6.8	ND	0.12	ND	52
Acenaphthene	**20**	11D	0.56	1.4	0.061	9.6	0.11	2.3	0.29	**100D**	6.4	0.18J	0.11	**110D**	3.2	0.07J	0.058	**62JD**	24
Acenaphthylene	**100**	ND	0.46	0.10J	0.05	0.29J	0.093	0.84J	0.24	**99D**	5.2	ND	0.093	41D	2.6	ND	0.047	**740D**	20
Anthracene	**100**	17D	0.47	0.87	0.051	2.6	0.095	7.2	0.24	**91D**	5.4	0.27J	0.095	76D	2.7	0.13J	0.048	**120JD**	20
Benzo[a]anthracene	**1**	**16D**	0.027	**1.3**	0.0029	**1.6**	0.0055	**17**	0.014	**47D**	0.31	0.15	0.0055	**34D**	0.15	0.31	0.0028	**110D**	1.2
Benzo[a]pyrene	**1**	**13D**	0.027	**1.4**	0.003	**2.2**	0.0055	**15**	0.014	**59D**	0.31	0.17	0.0055	**46D**	0.15	0.34	0.0028	**130D**	1.2
Benzo[b]fluoranthene	**1**	**15D**	0.024	**1.4**	0.0027	**1.5**	0.0049	**16**	0.013	**35D**	0.28	0.14	0.005	**27D**	0.14	0.4	0.0025	**84D**	1.1
Benzo[g,h,i]perylene	**100**	7.6D	0.29	0.82	0.031	1.7	0.058	8.3	0.15	46D	3.3	0.13J	0.058	26D	1.6	0.19J	0.029	81JD	12
Benzo[k]fluoranthene	**0.8**	**5.2D**	0.029	0.49	0.0032	**0.47**	0.0059	**6.3**	0.015	**14D**	0.34	0.06J	0.006	**12D**	0.17	0.13	0.003	**28D**	1.3
bis (2-chloroisopropyl) ether	**NA**	ND	0.43	ND	0.046	ND	0.087	ND	0.22	ND	4.9	ND	0.087	ND	2.4	ND	0.044	ND	18
Bis(2-chloroethoxy)methane	**NA**	ND	0.5	ND	0.054	ND	0.10	ND	0.26	ND	5.7	ND	0.10	ND	2.8	ND	0.051	ND	21
Bis(2-chloroethyl)ether	**NA**	ND	0.053	ND	0.0057	ND	0.011	ND	0.027	ND	0.60	ND	0.011	ND	0.3	ND	0.0054	ND	2.3
Bis(2-ethylhexyl) phthalate	**NA**	ND	1.3	ND	0.14	ND	0.26	ND	0.66	ND	15	ND	0.26	ND	7.3	ND	0.13	ND	55
Butyl benzyl phthalate	**NA**	ND	0.35	ND	0.038	ND	0.072	ND	0.18	ND	4.1	ND	0.072	ND	2	ND	0.036	ND	15
Carbazole	**NA**	7.3D	0.46	0.83	0.05	0.83	0.093	1.9J	0.24	ND	5.2	ND	0.093	ND	2.6	ND	0.047	ND	20
Chrysene	**1**	**13D**	0.45	**1.3**	0.049	**1.7**	0.091	**18**	0.23	**45D**	5.2	0.18J	0.092	**32D**	2.5	0.34J	0.046	**98JD**	19
Dibenz(a,h)anthracene	**0.33**	**1.2D**	0.049	0.16	0.0053	0.08	0.0099	**1.7**	0.025	**1.6JD**	0.56	0.02J	0.0099	**2.2D**	0.27	0.03J	0.005	**3.8JD**	2.1
Dibenzofuran	**7**	**8.8D**	0.45	0.75	0.049	0.75	0.092	1.6J	0.23	ND	5.2	ND	0.092	ND	2.6	ND	0.046	ND	20
Diethyl phthalate	**NA**	ND	0.46	ND	0.05	ND	0.093	ND	0.24	ND	5.3	ND	0.093	ND	2.6	ND	0.047	ND	20
Dimethyl phthalate	**NA**	ND	0.46	ND	0.05	ND	0.093	ND	0.24	ND	5.2	ND	0.093	ND	2.6	ND	0.047	ND	20
Di-n-butyl phthalate	**NA**	ND	0.48	ND	0.052	ND	0.097	ND	0.25	ND	5.5	ND	0.097	ND	2.7	ND	0.049	ND	21
Di-n-octyl phthalate	**NA**	ND	0.25	ND	0.027	ND	0.050	ND	0.13	ND	2.8	ND	0.050	ND	1.4	ND	0.025	ND	11
Fluoranthene	**100**	39D	0.51	2.6	0.056	3.9	0.10	31	0.27	**140D**	5.9	0.46J	0.10	**120D**	2.9	0.63	0.053	**340D**	22
Fluorene	**30**	11D	0.49	1.8	0.054	3.9	0.10	2.8	0.25	**100D**	5.7	0.16J	0.10	**76D**	2.8	0.07J	0.051	**270D**	21

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-29(9.5-10')		S-29(10.5-11')		S-30(12.5-13')		S-30(14-14.5')		S-31(10-10.5')		S-31(14-14.5')		S-32(10-10.5')		S-32(14.5-15')		S-33(9-9.5')	
Lab Sample No.		460-48696-8		460-48696-9		460-48632-8		460-48632-9		460-48632-12		460-48632-13		460-48696-6		460-48696-7		460-48696-15	
Sampling Date		12/18/2012		12/18/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/18/2012		12/18/2012		12/18/2012	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor		1		1		50		1		100		1		50		1		500	
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
Hexachlorobenzene	**0.33**	ND	0.053	ND	0.0057	ND	0.011	ND	0.027	ND	0.60	ND	0.011	ND	0.3	ND	0.0054	ND	2.3
Hexachlorobutadiene	**NA**	ND	0.094	ND	0.01	ND	0.019	ND	0.049	ND	1.1	ND	0.019	ND	0.53	ND	0.0096	ND	4.1
Hexachlorocyclopentadiene	**NA**	ND	0.45	ND	0.049	ND	0.092	ND	0.23	ND	5.2	ND	0.092	ND	2.6	ND	0.046	ND	20
Hexachloroethane	**NA**	ND	0.043	ND	0.0047	ND	0.0087	ND	0.022	ND	0.49	ND	0.0087	ND	0.24	ND	0.0044	ND	1.9
Indeno[1,2,3-cd]pyrene	**0.5**	**8.7D**	0.072	**0.94**	0.0078	**1.1**	0.015	**8.9**	0.037	**25D**	0.82	0.07J	0.015	**19D**	0.41	0.23	0.0073	**56D**	3.1
Isophorone	**NA**	ND	0.47	ND	0.051	ND	0.095	ND	0.24	ND	5.4	ND	0.095	ND	2.6	ND	0.048	ND	20
Naphthalene	**12**	11D	0.45	3.7	0.049	**15**	0.091	2.9	0.23	**690D**	5.1	3.8	0.091	**330D**	2.5	0.34J	0.046	**3,300D**	19
Nitrobenzene	**NA**	ND	0.055	ND	0.006	ND	0.011	ND	0.028	ND	0.63	ND	0.011	ND	0.31	ND	0.0056	ND	2.4
N-Nitrosodi-n-propylamine	**NA**	ND	0.064	ND	0.007	ND	0.013	ND	0.033	ND	0.74	ND	0.013	ND	0.36	ND	0.0066	ND	2.8
N-Nitrosodiphenylamine	**NA**	ND	0.38	ND	0.041	ND	0.077	ND	0.20	ND	4.4	ND	0.077	ND	2.1	ND	0.039	ND	16
Phenanthrene	**100**	51D	0.49	4.1	0.053	11	0.10	21	0.25	**390D**	5.6	0.87	0.10	**270D**	2.8	0.57	0.05	**870D**	21
Pyrene	**100**	35D	0.32	2.9	0.035	7.6	0.066	27	0.17	**300D**	3.7	0.61J	0.066	**180D**	1.8	0.66	0.033	**580D**	14
Total Conc	**NA**	275		27.63		66.54J		190.63J		2,272.4J		7.44J		1,499.2		4.50		7,242.8	
Estimated Conc. (TICs)	**NA**	60.1		7.79		21.93		77		363		2.6		548		11.54		1,000	

Shaded = MDL exceeds NYSDEC Soil Cleanup Objective

BOLD and Shaded = Concentration exceeds the NYSDEC Soil Cleanup Objective

B : Compound was found in the blank and sample.

ND = Not detected.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

ppm = Parts per million

*T= There are no TICs reported for the sample

J B : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

J D : Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

^All samples have been rounded to the hundredth decimal place, as requested by Con Edison

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID		S-33(14.5-15')		S-34(9-9.5')		S-34(13.5-14')		S-35(11-11.5')		S-35(14.5-15')		S-36(10-10.5')		DUP		S-36(12-12.5')		S-37(11-11.5')	
Lab Sample No.	DEC CP-51 Soil	460-48696-16		460-48696-11		460-48696-12		460-48696-13		460-48696-14		460-48696-4		460-48696-17		460-48696-5		460-48632-2	
Sampling Date	Cleanup	12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/17/2012	
Matrix	Objectives	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor		1		500		1		1000		1		2000		2000		1		5000	
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
1,1,1-Trichloroethane	**0.680**	ND	0.00025	ND	0.23	ND	0.19	ND	0.61	ND	0.00019	ND	0.54	ND	0.55	ND	0.00019	ND	1.4
1,1,2,2-Tetrachloroethane	**NA**	ND	0.00017	ND	0.58	ND	0.13	ND	1.5	ND	0.00013	ND	1.4	ND	1.4	ND	0.00013	ND	3.5
1,1,2-Trichloroethane	**NA**	ND	0.00027	ND	0.69	ND	0.20	ND	1.8	ND	0.00021	ND	16	ND	1.7	ND	0.00020	ND	4.2
1,1-Dichloroethane	**0.270**	ND	0.00021	ND	0.48	ND	0.16	ND	1.3	ND	0.00016	ND	1.1	ND	1.2	ND	0.00016	ND	2.9
1,1-Dichloroethene	**0.330**	ND	0.00036	ND	0.32	ND	0.28	ND	0.86	ND	0.00028	ND	0.76	ND	0.78	ND	0.00028	ND	2.0
1,2-Dichloroethane	**0.020**	ND	0.00034	ND	0.69	ND	0.26	ND	1.80	ND	0.00026	ND	1.6	ND	1.7	ND	0.00026	ND	4.3
1,2-Dichloropropane	**NA**	ND	0.00029	ND	0.31	ND	0.22	ND	0.84	ND	0.00022	ND	0.74	ND	0.76	ND	0.00022	ND	1.9
2-Butanone	**0.120**	0.01J	0.0012	ND	8.5	0.01J	0.92	ND	23	0.01J	0.00093	ND	20	ND	21	0.01J	0.00091	ND	52
2-Hexanone	**NA**	ND	0.00025	ND	1.8	ND	0.19	ND	4.9	ND	0.00019	ND	4.3	ND	4.4	ND	0.00019	ND	11
4-Methyl-2-pentanone	**NA**	0.01J	0.00038	ND	3.6	0.05J	0.29	ND	9.6	0.01J	0.00029	ND	8.5	ND	8.7	ND	0.00029	ND	22
Acetone	**0.050**	0.05B	0.0032	ND	9.8	0.03B	2.5	ND	26	**0.54B**	0.0025	ND	23	ND	24	0.04B	0.00240	ND	60
Benzene	**0.060**	0.01J	0.00029	ND	0.3	ND	0.22	ND	0.8	0.01	0.00022	ND	0.71	ND	0.73	0.00J	0.00022	ND	1.9
Bromodichloromethane	**NA**	ND	0.00061	ND	0.46	ND	0.47	ND	1.2	ND	0.00047	ND	1.1	ND	1.1	ND	0.00046	ND	2.8
Bromoform	**NA**	ND	0.00032	ND	0.7	ND	0.25	ND	1.9	ND	0.00025	ND	1.7	ND	1.7	ND	0.00025	ND	4.3
Bromomethane	**NA**	ND	0.00082	ND	0.66	ND	0.63	ND	1.8	ND	0.00063	ND	1.6	ND	1.6	ND	0.00062	ND	4.1
Carbon disulfide	**NA**	0.01J	0.00029	ND	0.46	0.01J	0.22	ND	1.2	0.01	0.00022	ND	1.1	ND	1.1	0.01J	0.00022	ND	2.8
Carbon tetrachloride	**0.760**	ND	0.00029	ND	0.21	ND	0.22	ND	0.55	ND	0.00022	ND	0.49	ND	0.5	ND	0.00022	ND	1.3
Chlorobenzene	**1.100**	0.01	0.00034	ND	0.4	ND	0.26	**2.2J**	1.1	0.01J	0.00026	**5.7J**	0.95	**5.3J**	0.98	ND	0.00026	ND	2.5
Chloroethane	**NA**	ND	0.00063	ND	0.62	ND	0.48	ND	1.6	ND	0.00049	ND	1.5	ND	1.5	ND	0.00048	ND	3.8
Chloroform	**0.370**	ND	0.00046	ND	0.29	ND	0.35	ND	0.76	ND	0.00035	ND	0.68	ND	0.7	ND	0.00035	ND	1.8
Chloromethane	**NA**	ND	0.00031	ND	0.35	ND	0.23	ND	0.94	ND	0.00024	ND	0.84	ND	0.86	ND	0.00023	ND	2.2
cis-1,2-Dichloroethene	**0.250**	ND	0.00021	ND	0.65	ND	0.16	ND	1.7	ND	0.00016	ND	1.5	ND	1.6	ND	0.00016	ND	4.0
cis-1,3-Dichloropropene	**NA**	ND	0.00027	ND	0.67	ND	0.20	ND	1.8	ND	0.00021	ND	1.6	ND	1.6	ND	0.00020	ND	4.1
Dibromochloromethane	**NA**	ND	0.00019	ND	0.73	ND	0.15	ND	1.9	ND	0.00015	ND	1.7	ND	1.8	ND	0.00014	ND	4.5
Ethylbenzene	**1.0**	0.01	0.00032	**21**	0.35	ND	0.25	**59**	0.93	0.01	0.00025	**51**	0.83	**45**	0.85	0.01	0.00025	**77**	2.2
Methylene Chloride	**0.050**	0.01JB	0.00029	ND	0.67	0.01B	0.22	ND	1.8	0.01JB	0.00022	ND	1.6	ND	1.6	0.01B	0.00022	ND	4.1
Styrene	**NA**	ND	0.00054	3.3J	0.43	ND	0.41	26	1.2	ND	0.00041	1.6J	1	ND	1.1	ND	0.00041	8.4J	2.7
Tetrachloroethene	**13.0**	ND	0.00023	ND	0.36	ND	0.17	ND	0.95	ND	0.00018	ND	0.84	ND	0.86	ND	0.00017	ND	2.2
Toluene	**0.700**	0.01J	0.00027	ND	0.55	ND	0.20	ND	1.5	0.01J	0.00021	ND	1.3	ND	1.3	ND	0.00020	ND	3.4
trans-1,2-Dichloroethene	**0.190**	ND	0.00025	ND	0.47	ND	0.19	ND	1.3	ND	0.00019	ND	1.1	ND	1.1	ND	0.00019	ND	2.9
trans-1,3-Dichloropropene	**NA**	ND	0.00019	ND	0.89	ND	0.15	ND	2.4	ND	0.00015	ND	2.1	ND	2.1	ND	0.00014	ND	5.5
Trichloroethene	**0.470**	ND	0.00023	ND	0.34	ND	0.17	ND	0.9	ND	0.00018	ND	0.8	ND	0.81	ND	0.00017	ND	2.1
Vinyl chloride	**0.020**	ND	0.00065	ND	0.53	ND	0.49	ND	1.4	ND	0.0005	ND	1.3	ND	1.3	ND	0.00049	ND	3.3
Xylenes, Total	**0.260**	ND	0.0013	**7.7J**	1.3	ND	0.98	**55**	3.5	ND	0.0098	**12J**	3.1	**11J**	3.2	ND	0.00097	**27J**	8.1
Total Conc	**NA**	0.08J		32J		0.04J		142.2J		0.08		70.3J		61.3		0.06J		112.4J	
Estimated Conc. (TICs)	**NA**	3.48		3,485		0.22		11,329		1.86		10,331		10,667		0.43		19,210	

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-33(14.5-15')		S-34(9-9.5')		S-34(13.5-14')		S-35(11-11.5')		S-35(14.5-15')		S-36(10-10.5')		DUP		S-36(12-12.5')		S-37(11-11.5')	
Lab Sample No.		460-48696-16		460-48696-11		460-48696-12		460-48696-13		460-48696-14		460-48696-4		460-48696-17		460-48696-5		460-48632-2	
Sampling Date		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/17/2012	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor		1		500		1		1000		1		2000		2000		1		5000	
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
1,2,4-Trichlorobenzene	**NA**	ND	0.0043	ND	3.2	ND	0.022	ND	6.9	ND	0.11	ND	0.47	ND	0.023	ND	0.0044	ND	1.1
1,2-Dichlorobenzene	**1.1**	ND	0.044	ND	33	ND	0.23	ND	71	ND	1.1	ND	4.8	ND	0.23	ND	0.045	ND	11
1,3-Dichlorobenzene	**2.4**	ND	0.035	ND	26	ND	0.18	ND	55	ND	0.86	ND	3.7	ND	0.18	ND	0.035	ND	8.6
1,4-Dichlorobenzene	**1.8**	ND	0.043	ND	32	ND	0.22	ND	69	ND	1.1	ND	4.7	ND	0.22	ND	0.043	ND	11
2,4-Dinitrotoluene	**NA**	ND	0.013	ND	9.4	ND	0.064	ND	20	ND	0.31	ND	1.4	ND	0.066	ND	0.013	ND	3.1
2,6-Dinitrotoluene	**NA**	ND	0.011	ND	8.6	ND	0.059	ND	18	ND	0.29	ND	1.2	ND	0.06	ND	0.012	ND	2.9
2-Chloronaphthalene	**NA**	ND	0.042	ND	32	ND	0.22	ND	68	ND	1.1	ND	4.6	ND	0.22	ND	0.043	ND	11
2-Methylnaphthalene	**NA**	0.43	0.049	240JD	37	0.41J	0.25	650D	78	9.2JD	1.2	43D	5.3	5.3	0.26	ND	0.05	100D	12
2-Nitroaniline	**NA**	ND	0.16	ND	120	ND	0.81	ND	250	ND	4	ND	17	ND	0.83	ND	0.16	ND	40
3,3'-Dichlorobenzidine	**NA**	ND	0.13	ND	100	ND	0.68	ND	210	ND	3.3	ND	14	ND	0.7	ND	0.14	ND	33
3-Nitroaniline	**NA**	ND	0.13	ND	100	ND	0.69	ND	220	ND	3.4	ND	15	ND	0.7	ND	0.14	ND	34
4-Bromophenyl phenyl ether	**NA**	ND	0.038	ND	28	ND	0.19	ND	61	ND	0.94	ND	4.1	ND	0.2	ND	0.038	ND	9.4
4-Chloroaniline	**NA**	ND	0.1	ND	75	ND	0.52	ND	160	ND	2.5	ND	11	ND	0.53	ND	0.1	ND	25
4-Chlorophenyl phenyl ether	**NA**	ND	0.045	ND	33	ND	0.23	ND	72	ND	1.1	ND	4.8	ND	0.23	ND	0.045	ND	11
4-Nitroaniline	**NA**	ND	0.12	ND	89	ND	0.61	ND	190	ND	3	ND	13	ND	0.62	ND	0.12	ND	30
Acenaphthene	**20**	0.94	0.055	**130JD**	42	1.5J	0.28	**120JD**	89	15D	1.4	ND	6	10	0.29	0.07J	0.056	**210D**	14
Acenaphthylene	**100**	0.29J	0.045	**390D**	34	0.23J	0.23	**1,300D**	72	ND	1.1	ND	4.9	0.45J	0.24	ND	0.046	**160D**	11
Anthracene	**100**	0.09J	0.046	84JD	35	**5**	0.24	**240JD**	74	3.4JD	1.2	59D	5	8.4	0.24	ND	0.047	**130D**	12
Benzo[a]anthracene	**1**	0.1	0.0027	**75D**	2	**12**	0.014	**190D**	4.3	**37D**	0.066	**29D**	0.29	**3.7**	0.014	ND	0.0027	**58D**	0.66
Benzo[a]pyrene	**1**	0.11	0.0027	**89D**	2	**11**	0.014	**220D**	4.3	**34D**	0.067	**39D**	0.29	**5**	0.014	0.02J	0.0027	**80D**	0.67
Benzo[b]fluoranthene	**1**	0.09	0.0024	**60D**	1.8	**13**	0.012	**140D**	3.9	**40D**	0.06	**25D**	0.26	**3.3**	0.013	0.02J	0.0024	**39D**	0.60
Benzo[g,h,i]perylene	**100**	0.08J	0.028	53JD	21	6.7	0.14	**130JD**	45	19D	0.71	26JD	3.1	3.7	0.15	ND	0.029	**54JD**	7.0
Benzo[k]fluoranthene	**0.8**	0.03J	0.0029	**15JD**	2.2	**4**	0.015	**45JD**	4.6	**12D**	0.072	**8.6D**	0.31	ND	0.015	ND	0.0029	**21D**	0.72
bis (2-chloroisopropyl) ether	**NA**	ND	0.042	ND	32	ND	0.22	ND	68	ND	1.1	ND	4.6	ND	0.22	ND	0.043	ND	10
Bis(2-chloroethoxy)methane	**NA**	ND	0.049	ND	37	ND	0.25	ND	79	ND	1.2	ND	5.3	ND	0.26	ND	0.05	ND	12
Bis(2-chloroethyl)ether	**NA**	ND	0.0052	ND	3.9	ND	0.027	ND	8.3	ND	0.13	ND	0.56	ND	0.027	ND	0.0053	ND	1.3
Bis(2-ethylhexyl) phthalate	**NA**	ND	0.13	ND	95	ND	0.65	ND	200	ND	3.2	ND	14	ND	0.66	ND	0.13	ND	32
Butyl benzyl phthalate	**NA**	ND	0.035	ND	26	ND	0.18	ND	56	ND	0.87	ND	3.8	ND	0.18	ND	0.035	ND	8.7
Carbazole	**NA**	ND	0.045	ND	34	0.46J	0.23	ND	72	ND	1.1	ND	4.9	ND	0.24	ND	0.046	ND	11
Chrysene	**1**	0.10J	0.044	**63JD**	33	**13**	0.23	**170JD**	71	**35D**	1.1	**26JD**	4.8	**3.6**	0.23	ND	0.045	**58JD**	11
Dibenz(a,h)anthracene	**0.33**	0.01J	0.0048	ND	3.6	**1.6**	0.025	ND	7.7	**3.2D**	0.12	**1.1JD**	0.52	0.23	0.025	ND	0.0049	**2.9JD**	1.2
Dibenzofuran	**7**	ND	0.045	ND	33	0.86J	0.23	ND	72	ND	1.1	ND	4.8	ND	0.23	ND	0.045	ND	11
Diethyl phthalate	**NA**	ND	0.045	ND	34	ND	0.23	ND	73	ND	1100	ND	4.9	ND	0.24	ND	0.046	ND	11
Dimethyl phthalate	**NA**	ND	0.045	ND	34	ND	0.23	ND	72	ND	1100	ND	4.9	ND	0.24	ND	0.046	ND	11
Di-n-butyl phthalate	**NA**	ND	0.047	ND	35	ND	0.24	ND	75	ND	1.2	ND	5.1	ND	0.25	ND	0.048	ND	12
Di-n-octyl phthalate	**NA**	ND	0.024	ND	18	ND	0.12	ND	39	ND	0.61	ND	2.6	ND	0.13	ND	0.025	ND	6.1
Fluoranthene	**100**	0.27J	0.051	**240JD**	38	24	0.26	**620D**	81	52D	1.3	94D	5.5	13	0.27	ND	0.051	ND	13
Fluorene	**30**	0.22J	0.049	**180JD**	36	2.1	0.25	**500JD**	78	1.3JD	1.2	**47D**	5.3	6.9	0.25	ND	0.049	ND	12

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-33(14.5-15')		S-34(9-9.5')		S-34(13.5-14')		S-35(11-11.5')		S-35(14.5-15')		S-36(10-10.5')		DUP		S-36(12-12.5')		S-37(11-11.5')	
Lab Sample No.		460-48696-16		460-48696-11		460-48696-12		460-48696-13		460-48696-14		460-48696-4		460-48696-17		460-48696-5		460-48632-2	
Sampling Date		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/18/2012		12/17/2012	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor		1		500		1		1000		1		2000		2000		1		5000	
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
Hexachlorobenzene	**0.33**	ND	0.0052	ND	3.9	ND	0.027	ND	8.3	ND	0.13	ND	0.56	ND	0.027	ND	0.0053	ND	1.3
Hexachlorobutadiene	**NA**	ND	0.0093	ND	7	ND	0.048	ND	15	ND	0.23	ND	1	ND	0.049	ND	0.0094	ND	2.3
Hexachlorocyclopentadiene	**NA**	ND	0.045	ND	34	ND	0.23	ND	72	ND	1.1	ND	4.9	ND	0.23	ND	0.045	ND	11
Hexachloroethane	**NA**	ND	0.0042	ND	3.2	ND	0.022	ND	6.8	ND	0.11	ND	0.46	ND	0.022	ND	0.0043	ND	1.1
Indeno[1,2,3-cd]pyrene	**0.5**	0.06	0.0071	**32D**	5.3	**8.2**	0.036	**110D**	11	**22D**	0.18	**19D**	0.77	**2.7**	0.037	ND	0.0072	**27D**	1.8
Isophorone	**NA**	ND	0.046	ND	35	ND	0.24	ND	74	ND	1.2	ND	5	ND	0.24	ND	0.047	ND	11
Naphthalene	**12**	4.5	0.044	**2,800D**	33	2.5	0.23	**8,100D**	71	**200D**	1.1	**410D**	4.8	**24**	0.23	1.7	0.045	**1,000D**	11
Nitrobenzene	**NA**	ND	0.0054	ND	4.1	ND	0.028	ND	8.7	ND	0.14	ND	0.59	ND	0.028	ND	0.0055	ND	1.3
N-Nitrosodi-n-propylamine	**NA**	ND	0.0063	ND	4.8	ND	0.033	ND	10	ND	0.16	ND	0.69	ND	0.033	ND	0.0064	ND	1.6
N-Nitrosodiphenylamine	**NA**	ND	0.037	ND	28	ND	0.19	ND	60	ND	0.94	ND	4.1	ND	0.2	ND	0.038	ND	9.3
Phenanthrene	**100**	0.64	0.048	**560D**	36	20	0.25	**1,600D**	0.078	10D	1.2	**230D**	5.3	31	0.25	0.08J	0.049	**620D**	12
Pyrene	**100**	0.43	0.032	**400D**	24	20	0.16	**1,000D**	0.051	53D	0.8	**150D**	3.5	20	0.17	0.05J	0.032	**420D**	7.9
Total Conc	**NA**	8.38		5,411J		146.56J		15,135J		546.1		1292.7		141.28		1.93J		3,379.9J	
Estimated Conc. (TICs)	**NA**	2.4		0.0*T		53.9		560		229		74		26.9		2.35		325	

Shaded = MDL exceeds NYSDEC Soil Cleanup Objective

BOLD and Shaded = Concentration exceeds the NYSDEC Soil Cleanup Objective

B : Compound was found in the blank and sample.

ND = Not detected.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is

D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries re

ppm = Parts per million

*T= There are no TICs reported for the sample

J B : Result is less than the RL but greater than or equal to the MDL and the concentration i

J D : Sample results are obtained from a dilution; the surrogate or matrix spike recoveries re

^All samples have been rounded to the hundredth decimal place, as requested by Con Edis

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID		S-37(16-16.5')		S-38(10-10.5')		S-38(14-14.5')		S-39(10-10.5')		S-39(13.5-14')		S-40(10-10.5')		S-40(13.5-14')		S-41(14.5-15')	
Lab Sample No.	DEC CP-51 Soil	460-48632-3		460-48632-4		460-48632-5		460-48632-6		460-48632-7		460-48632-10		460-48632-11		460-48696-2	
Sampling Date	Cleanup	12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/18/2012	
Matrix	Objectives	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor		1		2000		1		50		1		50		1		50	
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
1,1,1-Trichloroethane	**0.680**	ND	0.00013	ND	1.1	ND	0.00046	ND	0.012	ND	0.00028	ND	0.024	ND	0.00034	ND	0.018
1,1,2,2-Tetrachloroethane	**NA**	ND	0.00009	ND	2.9	ND	0.00032	ND	0.030	ND	0.00019	ND	0.060	ND	0.00023	ND	0.046
1,1,2-Trichloroethane	**NA**	ND	0.00014	ND	3.4	ND	0.00049	ND	0.036	ND	0.00030	ND	0.071	ND	0.00036	ND	0.055
1,1-Dichloroethane	**0.270**	ND	0.00011	ND	2.4	ND	0.00039	ND	0.025	ND	0.00023	ND	0.049	ND	0.00028	ND	0.038
1,1-Dichloroethene	**0.330**	ND	0.00019	ND	1.6	ND	0.00067	ND	0.017	ND	0.00040	ND	0.033	ND	0.00049	ND	0.026
1,2-Dichloroethane	**0.020**	ND	0.00018	ND	3.4	ND	0.00064	ND	0.036	ND	0.00038	ND	0.072	ND	0.00046	ND	0.055
1,2-Dichloropropane	**NA**	ND	0.00015	ND	1.6	ND	0.00053	ND	0.017	ND	0.00032	ND	0.033	ND	0.00039	ND	0.025
2-Butanone	**0.120**	0.01J	0.00063	ND	42	0.02J	0.0022	ND	0.45	0.01J	0.0013	ND	0.88	0.02J	0.0016	ND	0.68
2-Hexanone	**NA**	ND	0.00013	ND	9.1	ND	0.00046	ND	0.096	ND	0.00028	ND	0.19	ND	0.00034	ND	0.15
4-Methyl-2-pentanone	**NA**	ND	0.00020	ND	18	ND	0.00071	ND	0.19	ND	0.00042	ND	0.37	ND	0.00052	ND	0.29
Acetone	**0.050**	0.04B	0.0017	ND	49	**0.09B**	0.006	ND	0.51	**0.06B**	0.0036	ND	1.0	**0.08B**	0.0044	ND	0.78
Benzene	**0.060**	ND	0.00015	ND	1.5	ND	0.00053	ND	0.016	ND	0.00032	0.06J	0.031	ND	0.00039	ND	0.024
Bromodichloromethane	**NA**	ND	0.00032	ND	2.3	ND	0.0011	ND	0.024	ND	0.00068	ND	0.047	ND	0.00083	ND	0.036
Bromoform	**NA**	ND	0.00017	ND	3.5	ND	0.00060	ND	0.037	ND	0.00036	ND	0.073	ND	0.00044	ND	0.056
Bromomethane	**NA**	ND	0.00043	ND	3.3	ND	0.0015	ND	0.035	ND	0.00091	ND	0.069	ND	0.0011	ND	0.053
Carbon disulfide	**NA**	0.01J	0.00015	ND	2.3	0.01	0.00053	ND	0.024	ND	0.00032	ND	0.047	0.01J	0.00039	ND	0.037
Carbon tetrachloride	**0.760**	ND	0.00015	ND	1.0	ND	0.00053	ND	0.011	ND	0.00032	ND	0.022	ND	0.00039	ND	0.017
Chlorobenzene	**1.100**	ND	0.00018	**60**	2.0	ND	0.00064	ND	0.021	ND	0.00038	ND	0.042	ND	0.00046	0.84	0.032
Chloroethane	**NA**	ND	0.00033	ND	3.1	ND	0.0012	ND	0.032	ND	0.00070	ND	0.064	ND	0.00085	ND	0.049
Chloroform	**0.370**	ND	0.00024	ND	1.4	ND	0.00085	ND	0.015	ND	0.00051	ND	0.030	ND	0.00062	ND	0.023
Chloromethane	**NA**	ND	0.00016	ND	1.8	ND	0.00057	ND	0.019	ND	0.00034	ND	0.037	ND	0.00041	ND	0.028
cis-1,2-Dichloroethene	**0.250**	ND	0.00011	ND	3.2	ND	0.00039	ND	0.034	ND	0.00023	ND	0.067	ND	0.00028	ND	0.052
cis-1,3-Dichloropropene	**NA**	ND	0.00014	ND	3.4	ND	0.00049	ND	0.035	ND	0.00030	ND	0.070	ND	0.00036	ND	0.054
Dibromochloromethane	**NA**	ND	0.00010	ND	3.6	ND	0.00035	ND	0.038	ND	0.00021	ND	0.076	ND	0.00026	ND	0.058
Ethylbenzene	**1.0**	0.01J	0.00017	**160**	1.7	0.01	0.00060	0.1J	0.018	ND	0.00036	0.27J	0.036	ND	0.00044	0.26J	0.028
Methylene Chloride	**0.050**	0.01J	0.00015	ND	3.3	ND	0.00053	ND	0.035	0.01J	0.00032	ND	0.069	0.01J	0.00039	ND	0.053
Styrene	**NA**	ND	0.00028	93	2.2	ND	0.00099	ND	0.023	ND	0.00059	ND	0.045	ND	0.00072	0.08J	0.035
Tetrachloroethene	**13.0**	ND	0.00012	ND	1.8	ND	0.00042	ND	0.019	ND	0.00025	ND	0.037	ND	0.00031	ND	0.028
Toluene	**0.700**	ND	0.00014	**9.9J**	2.7	ND	0.00049	ND	0.029	0.01J	0.00030	0.10J	0.057	ND	0.00036	ND	0.044
trans-1,2-Dichloroethene	**0.190**	ND	0.00013	ND	2.3	ND	0.00046	ND	0.025	ND	0.00028	ND	0.049	ND	0.00034	ND	0.038
trans-1,3-Dichloropropene	**NA**	ND	0.00010	ND	4.4	ND	0.00035	ND	0.047	ND	0.00021	ND	0.092	ND	0.00026	ND	0.071
Trichloroethene	**0.470**	ND	0.00012	ND	1.7	ND	0.00042	ND	0.018	ND	0.00025	ND	0.035	ND	0.00031	ND	0.027
Vinyl chloride	**0.020**	ND	0.00034	ND	2.6	ND	0.0012	ND	0.028	ND	0.00072	ND	0.055	ND	0.00088	ND	0.042
Xylenes, Total	**0.260**	ND	0.00067	**110**	6.5	ND	0.0024	0.09J	0.069	ND	0.0014	**0.29J**	0.14	ND	0.0017	0.25J	0.1
Total Conc	**NA**	0.05J		432.9J		0.11		0.19J		0.07J		0.72J		0.10J		1.43J	
Estimated Conc. (TICs)	**NA**	0.08		24,299		0.24		59		0.49		94.9		0*T		175	

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID		S-37(16-16.5')		S-38(10-10.5')		S-38(14-14.5')		S-39(10-10.5')		S-39(13.5-14')		S-40(10-10.5')		S-40(13.5-14')		S-41(14.5-15')	
Lab Sample No.	DEC CP-51 Soil Cleanup Objectives	460-48632-3		460-48632-4		460-48632-5		460-48632-6		460-48632-7		460-48632-10		460-48632-11		460-48696-2	
Sampling Date		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/18/2012	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor		1		2000		1		50		1		50		1		50	
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
1,2,4-Trichlorobenzene	**NA**	ND	0.0045	38JD	7.5	0.02J	0.0061	0.10J	0.023	ND	0.0044	ND	0.088	ND	0.0044	ND	0.28
1,2-Dichlorobenzene	**1.1**	ND	0.046	ND	77	ND	0.062	ND	0.23	ND	0.045	ND	0.90	ND	0.045	ND	2.9
1,3-Dichlorobenzene	**2.4**	ND	0.036	ND	60	ND	0.049	ND	0.18	ND	0.036	ND	0.70	ND	0.035	ND	2.3
1,4-Dichlorobenzene	**1.8**	ND	0.045	ND	74	ND	0.061	ND	0.23	ND	0.044	ND	0.88	ND	0.044	ND	2.8
2,4-Dinitrotoluene	**NA**	ND	0.013	ND	22	ND	0.018	ND	0.066	ND	0.013	ND	0.26	ND	0.013	ND	0.83
2,6-Dinitrotoluene	**NA**	ND	0.012	ND	20	ND	0.016	ND	0.061	ND	0.012	ND	0.23	ND	0.012	ND	0.75
2-Chloronaphthalene	**NA**	ND	0.044	ND	74	ND	0.060	ND	0.22	ND	0.044	ND	0.87	ND	0.043	ND	2.8
2-Methylnaphthalene	**NA**	ND	0.051	790D	85	0.24J	0.069	4	0.26	0.06J	0.050	2.2JD	1.0	ND	0.050	9.5JD	3.2
2-Nitroaniline	**NA**	ND	0.16	ND	280	ND	0.22	ND	0.84	ND	0.16	ND	3.2	ND	0.16	ND	10
3,3'-Dichlorobenzidine	**NA**	ND	0.14	ND	230	ND	0.19	ND	0.71	ND	0.14	ND	2.7	ND	0.14	ND	8.8
3-Nitroaniline	**NA**	ND	0.14	ND	230	ND	0.19	ND	0.71	ND	0.14	ND	2.7	ND	0.14	ND	8.9
4-Bromophenyl phenyl ether	**NA**	ND	0.039	ND	65	ND	0.053	ND	0.20	ND	0.039	ND	0.77	ND	0.039	ND	2.5
4-Chloroaniline	**NA**	ND	0.10	ND	170	ND	0.14	ND	0.53	ND	0.10	ND	2.1	ND	0.10	ND	6.6
4-Chlorophenyl phenyl ether	**NA**	ND	0.046	ND	77	ND	0.063	ND	0.24	ND	0.046	ND	0.91	ND	0.046	ND	2.9
4-Nitroaniline	**NA**	ND	0.12	ND	210	ND	0.17	ND	0.63	ND	0.12	ND	2.4	ND	0.12	ND	7.8
Acenaphthene	**20**	ND	0.058	**170JD**	96	0.63	0.078	20	0.29	0.09J	0.057	7JD	1.1	0.06J	0.057	**38D**	3.6
Acenaphthylene	**100**	ND	0.047	**1700D**	78	0.14J	0.063	1.4J	0.24	ND	0.046	2.2JD	0.92	ND	0.046	ND	3
Anthracene	**100**	ND	0.048	**260JD**	80	1.1	0.065	12	0.24	0.12J	0.048	11D	0.94	0.06J	0.047	**120D**	3
Benzo[a]anthracene	**1**	0.05	0.0028	**200D**	4.6	**1.5**	0.0037	**6**	0.014	0.33	0.0027	**22D**	0.054	0.10	0.0027	**46D**	0.17
Benzo[a]pyrene	**1**	0.04	0.0028	**250D**	4.7	**1.6**	0.0038	**7.7**	0.014	0.33	0.0028	**26D**	0.055	0.11	0.0027	**58D**	0.18
Benzo[b]fluoranthene	**1**	0.05	0.0025	**160D**	4.2	**1.8**	0.0034	**4.6**	0.013	0.40	0.0025	**27D**	0.049	0.11	0.0025	**41D**	0.16
Benzo[g,h,i]perylene	**100**	0.04J	0.029	**170JD**	49	1.1	0.040	6.7	0.15	0.22J	0.029	18D	0.58	0.07J	0.029	41D	1.9
Benzo[k]fluoranthene	**0.8**	0.018J	0.003	**64JD**	5.0	0.51	0.0041	1.7	0.015	0.15	0.003	**9.7D**	0.059	0.04	0.0029	**15D**	0.19
bis (2-chloroisopropyl) ether	**NA**	ND	0.044	ND	73	ND	0.059	ND	0.22	ND	0.043	ND	0.86	ND	0.043	ND	2.8
Bis(2-chloroethoxy)methane	**NA**	ND	0.051	ND	85	ND	0.069	ND	0.26	ND	0.051	ND	1.0	ND	0.050	ND	3.2
Bis(2-chloroethyl)ether	**NA**	ND	0.0054	ND	9.0	ND	0.0073	ND	0.027	ND	0.0053	ND	0.11	ND	0.0053	ND	0.34
Bis(2-ethylhexyl) phthalate	**NA**	ND	0.13	ND	220	ND	0.18	ND	0.67	ND	0.13	ND	2.6	ND	0.13	ND	8.3
Butyl benzyl phthalate	**NA**	ND	0.036	ND	60	ND	0.049	ND	0.18	ND	0.036	ND	0.71	ND	0.036	ND	2.3
Carbazole	**NA**	ND	0.047	ND	78	0.44J	0.063	ND	0.24	0.05J	0.046	1.7JD	0.92	ND	0.046	ND	3
Chrysene	**1**	ND	0.046	**210JD**	77	**1.5**	0.063	**4.9**	0.23	0.36J	0.046	**19D**	0.91	0.08J	0.045	**46D**	2.9
Dibenz(a,h)anthracene	**0.33**	ND	0.005	ND	8.3	0.17	0.0068	**0.22**	0.025	0.04	0.0049	**2.5D**	0.098	0.01J	0.0049	**2JD**	0.32
Dibenzofuran	**7**	ND	0.046	ND	77	0.36	0.063	0.75	0.24	ND	0.046	1.1JD	0.91	ND	0.046	ND	2.9
Diethyl phthalate	**NA**	ND	0.047	ND	79	ND	0.064	ND	0.24	ND	0.047	ND	0.93	ND	0.046	ND	3
Dimethyl phthalate	**NA**	ND	0.047	ND	78	ND	0.064	ND	0.24	ND	0.046	ND	0.92	ND	0.046	ND	3
Di-n-butyl phthalate	**NA**	0.12J	0.049	ND	81	0.14J	0.066	ND	0.25	ND	0.048	ND	0.96	0.09J	0.048	ND	3.1
Di-n-octyl phthalate	**NA**	ND	0.025	ND	42	ND	0.034	ND	0.13	ND	0.025	ND	0.50	ND	0.025	ND	1.6
Fluoranthene	**100**	0.08J	0.053	**740D**	88	2.5	0.072	14	0.27	0.61	0.052	37D	1.0	0.19J	0.052	**170D**	3.3
Fluorene	**30**	ND	0.051	**620JD**	84	0.62	0.069	7.9	0.26	0.11J	0.050	7.1JD	0.99	0.07J	0.050	21JD	3.2

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-37(16-16.5')		S-38(10-10.5')		S-38(14-14.5')		S-39(10-10.5')		S-39(13.5-14')		S-40(10-10.5')		S-40(13.5-14')		S-41(14.5-15')	
Lab Sample No.		460-48632-3		460-48632-4		460-48632-5		460-48632-6		460-48632-7		460-48632-10		460-48632-11		460-48696-2	
Sampling Date		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/17/2012		12/18/2012	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Dilution Factor		1		2000		1		50		1		50		1		50	
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**MDL**
Hexachlorobenzene	**0.33**	ND	0.0054	ND	9.0	ND	0.0073	ND	0.027	ND	0.0054	ND	0.11	ND	0.0053	ND	0.34
Hexachlorobutadiene	**NA**	ND	0.0096	ND	16	ND	0.013	ND	0.049	ND	0.0096	ND	0.19	ND	0.0095	ND	0.61
Hexachlorocyclopentadiene	**NA**	ND	0.046	ND	78	ND	0.063	ND	0.24	ND	0.046	ND	0.91	ND	0.046	ND	2.9
Hexachloroethane	**NA**	ND	0.0044	ND	7.3	ND	0.006	ND	0.022	ND	0.0044	ND	0.086	ND	0.0043	ND	0.28
Indeno[1,2,3-cd]pyrene	**0.5**	0.03J	0.0073	**86D**	12	**1.1**	0.010	**3.8**	0.037	0.21	0.0073	**18D**	0.14	0.05	0.0072	**32D**	0.47
Isophorone	**NA**	ND	0.048	ND	80	ND	0.065	ND	0.24	ND	0.047	ND	0.94	ND	0.047	ND	3
Naphthalene	**12**	0.65	0.046	**9,800D**	76	2.1	0.062	5.1	0.23	1.2	0.045	**13D**	0.90	0.52	0.045	**20JD**	2.9
Nitrobenzene	**NA**	ND	0.0056	ND	9.4	ND	0.0076	ND	0.029	ND	0.0056	ND	0.11	ND	0.0055	ND	0.36
N-Nitrosodi-n-propylamine	**NA**	ND	0.0066	ND	11	ND	0.009	ND	0.034	ND	0.0065	ND	0.13	ND	0.0065	ND	0.42
N-Nitrosodiphenylamine	**NA**	ND	0.039	ND	65	ND	0.053	ND	0.20	ND	0.039	ND	0.77	ND	0.038	ND	2.5
Phenanthrene	**100**	0.09J	0.050	**1,900D**	84	3.9	0.068	30	0.26	0.67	0.050	38D	0.99	0.28J	0.049	**170D**	3.2
Pyrene	**100**	0.10J	0.033	**1,200D**	55	2.9	0.045	30	0.17	0.74	0.033	47D	0.65	0.24J	0.033	**270D**	2.1
Total Conc	**NA**	1.27		18,358J		24.37J		160.12J		5.69J		309.5J		2.06J		1,099.5	
Estimated Conc. (TICs)	**NA**	6.22		0*T		21.06		66.5		16.96		239.2		1.69		203	

Shaded = MDL exceeds NYSDEC Soil Cleanup Objective

BOLD and Shaded = Concentration exceeds the NYSDEC Soil Cleanup Objective

B : Compound was found in the blank and sample.

ND = Not detected.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is

D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries rep

ppm = Parts per million

*T= There are no TICs reported for the sample

J B : Result is less than the RL but greater than or equal to the MDL and the concentration i

J D : Sample results are obtained from a dilution; the surrogate or matrix spike recoveries re

^All samples have been rounded to the hundredth decimal place, as requested by Con Edis

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-41(16.5-17')		S-42(9.5-10')		FB	FB
Lab Sample No.		460-48696-3		460-48696-10		460-48632-1	460-48696-1
Sampling Date		12/18/2012		12/18/2012		12/17/2012	12/18/2012
Matrix		Soil		Soil		Water	Water
Dilution Factor		1		1		1	1
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**Conc.**
1,1,1-Trichloroethane	**0.680**	ND	0.00028	ND	0.00033	ND	ND
1,1,2,2-Tetrachloroethane	**NA**	ND	0.00020	ND	0.00023	ND	ND
1,1,2-Trichloroethane	**NA**	ND	0.00031	ND	0.00035	ND	ND
1,1-Dichloroethane	**0.270**	ND	0.00024	ND	0.00028	ND	ND
1,1-Dichloroethene	**0.330**	ND	0.00042	ND	0.00048	ND	ND
1,2-Dichloroethane	**0.020**	ND	0.00039	ND	0.45	ND	ND
1,2-Dichloropropane	**NA**	ND	0.00033	ND	0.00038	ND	ND
2-Butanone	**0.120**	0.02J	0.00140	0.02J	0.0016	ND	ND
2-Hexanone	**NA**	ND	0.00028	ND	0.00033	ND	ND
4-Methyl-2-pentanone	**NA**	ND	0.00044	ND	0.00051	ND	ND
Acetone	**0.050**	**0.07B**	0.00370	ND	0.0043	ND	ND
Benzene	**0.060**	ND	0.00033	0.07	0.00038	ND	ND
Bromodichloromethane	**NA**	ND	0.00070	ND	0.00081	ND	ND
Bromoform	**NA**	ND	0.00037	ND	0.00043	ND	ND
Bromomethane	**NA**	ND	0.00094	ND	0.0011	ND	ND
Carbon disulfide	**NA**	ND	0.00033	0.01J	0.00038	ND	ND
Carbon tetrachloride	**0.760**	ND	0.00033	ND	0.00038	ND	ND
Chlorobenzene	**1.100**	ND	0.00039	ND	0.00045	ND	ND
Chloroethane	**NA**	ND	0.00072	ND	0.00083	ND	ND
Chloroform	**0.370**	ND	0.00053	ND	0.0006	ND	ND
Chloromethane	**NA**	ND	0.00035	ND	0.0004	ND	ND
cis-1,2-Dichloroethene	**0.250**	ND	0.00024	ND	0.00028	ND	ND
cis-1,3-Dichloropropene	**NA**	ND	0.00031	ND	0.00035	ND	ND
Dibromochloromethane	**NA**	ND	0.00022	ND	0.00025	ND	ND
Ethylbenzene	**1.0**	0.01J	0.00037	ND	0.00043	ND	ND
Methylene Chloride	**0.050**	0.01JB	0.00033	0.01JB	0.00038	ND	ND
Styrene	**NA**	ND	0.00061	ND	0.00071	ND	ND
Tetrachloroethene	**13.0**	ND	0.00026	ND	0.0003	ND	ND
Toluene	**0.700**	0.01J	0.00031	ND	0.00035	ND	ND
trans-1,2-Dichloroethene	**0.190**	ND	0.00028	ND	0.00033	ND	ND
trans-1,3-Dichloropropene	**NA**	ND	0.00022	ND	0.00025	ND	ND
Trichloroethene	**0.470**	ND	0.00026	ND	0.003	ND	ND
Vinyl chloride	**0.020**	ND	0.00074	ND	0.00086	ND	ND
Xylenes, Total	**0.260**	ND	0.00150	ND	0.0017	ND	ND
Total Conc	**NA**	0.09J		0.09J		0	0
Estimated Conc. (TICs)	**NA**	0.10		0.0*T		0	0

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-41(16.5-17')		S-42(9.5-10')		FB	FB
Lab Sample No.		460-48696-3		460-48696-10		460-48632-1	460-48696-1
Sampling Date		12/18/2012		12/18/2012		12/17/2012	12/18/2012
Matrix		Soil		Soil		Water	Water
Dilution Factor		1		1		1	1
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**Conc.**
SEMIVOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**Conc.**
1,2,4-Trichlorobenzene	**NA**	ND	0.0043	ND	0.0046	ND	ND
1,2-Dichlorobenzene	**1.1**	ND	0.044	ND	0.047	ND	ND
1,3-Dichlorobenzene	**2.4**	ND	0.034	ND	0.037	ND	ND
1,4-Dichlorobenzene	**1.8**	ND	0.043	ND	0.046	ND	ND
2,4-Dinitrotoluene	**NA**	ND	0.012	ND	0.013	ND	ND
2,6-Dinitrotoluene	**NA**	ND	0.011	ND	0.012	ND	ND
2-Chloronaphthalene	**NA**	ND	0.042	ND	0.045	ND	ND
2-Methylnaphthalene	**NA**	0.56	0.049	0.24J	0.052	ND	ND
2-Nitroaniline	**NA**	ND	0.16	ND	0.17	ND	ND
3,3'-Dichlorobenzidine	**NA**	ND	0.13	ND	0.14	ND	ND
3-Nitroaniline	**NA**	ND	0.13	ND	0.14	ND	ND
4-Bromophenyl phenyl ether	**NA**	ND	0.038	ND	0.04	ND	ND
4-Chloroaniline	**NA**	ND	0.1	ND	0.11	ND	ND
4-Chlorophenyl phenyl ether	**NA**	ND	0.044	ND	0.047	ND	ND
4-Nitroaniline	**NA**	ND	0.12	ND	0.13	ND	ND
Acenaphthene	**20**	1.1	0.055	0.24J	0.059	ND	ND
Acenaphthylene	**100**	ND	0.045	0.13J	0.048	ND	ND
Anthracene	**100**	0.4	0.046	0.33J	0.049	ND	ND
Benzo[a]anthracene	**1**	0.4	0.0026	0.71	0.0028	ND	ND
Benzo[a]pyrene	**1**	0.37	0.0027	0.80	0.0029	ND	ND
Benzo[b]fluoranthene	**1**	0.43	0.0024	0.79	0.0026	ND	ND
Benzo[g,h,i]perylene	**100**	0.19J	0.028	0.48	0.03	ND	ND
Benzo[k]fluoranthene	**0.8**	0.13	0.0029	0.33	0.0031	ND	ND
bis (2-chloroisopropyl) ether	**NA**	ND	0.042	ND	0.045	ND	ND
Bis(2-chloroethoxy)methane	**NA**	ND	0.049	ND	0.052	ND	ND
Bis(2-chloroethyl)ether	**NA**	ND	0.0052	ND	0.0055	ND	ND
Bis(2-ethylhexyl) phthalate	**NA**	ND	0.13	ND	0.13	ND	ND
Butyl benzyl phthalate	**NA**	ND	0.035	ND	0.037	ND	ND
Carbazole	**NA**	0.15J	0.045	0.07J	0.048	ND	ND
Chrysene	**1**	0.42	0.044	0.74	0.047	ND	ND
Dibenz(a,h)anthracene	**0.33**	0.03J	0.0048	0.090	0.0051	ND	ND
Dibenzofuran	**7**	0.23J	0.044	0.71J	0.047	ND	ND
Diethyl phthalate	**NA**	ND	0.045	ND	0.048	ND	ND
Dimethyl phthalate	**NA**	ND	0.045	ND	0.048	ND	ND
Di-n-butyl phthalate	**NA**	ND	0.047	ND	0.05	ND	ND
Di-n-octyl phthalate	**NA**	ND	0.024	ND	0.026	ND	ND
Fluoranthene	**100**	1.0	0.051	1.30	0.054	ND	ND
Fluorene	**30**	0.55	0.048	0.2J	0.052	ND	ND

TABLE 5
Volatile and Semi Volatile Organic Compounds - Open Excavation Area
December 2012

Con Edison 3rd Avenue Building Demolition Area
Brooklyn, New York

Sample ID	DEC CP-51 Soil Cleanup Objectives	S-41(16.5-17')		S-42(9.5-10')		FB	FB
Lab Sample No.		460-48696-3		460-48696-10		460-48632-1	460-48696-1
Sampling Date		12/18/2012		12/18/2012		12/17/2012	12/18/2012
Matrix		Soil		Soil		Water	Water
Dilution Factor		1		1		1	1
VOLATILE ORGANIC COMPOUNDS (ppm)		**Conc.**	**MDL**	**Conc.**	**MDL**	**Conc.**	**Conc.**
Hexachlorobenzene	**0.33**	ND	0.0052	ND	0.0055	ND	ND
Hexachlorobutadiene	**NA**	ND	0.0092	ND	0.0099	ND	ND
Hexachlorocyclopentadiene	**NA**	ND	0.045	ND	0.048	ND	ND
Hexachloroethane	**NA**	ND	0.0042	ND	0.0045	ND	ND
Indeno[1,2,3-cd]pyrene	**0.5**	0.25	0.007	0.55	0.0075	ND	ND
Isophorone	**NA**	ND	0.046	ND	0.049	ND	ND
Naphthalene	**12**	1.9	0.044	3.0	0.047	ND	ND
Nitrobenzene	**NA**	ND	0.0054	ND	0.0057	ND	ND
N-Nitrosodi-n-propylamine	**NA**	ND	0.0063	ND	0.0067	ND	ND
N-Nitrosodiphenylamine	**NA**	ND	0.037	ND	0.04	ND	ND
Phenanthrene	**100**	2.0	0.048	1.3	0.051	ND	ND
Pyrene	**100**	1.0	0.032	1.4	0.034	ND	ND
Total Conc	**NA**	11.11J		12.78J		0	0
Estimated Conc. (TICs)	**NA**	4.59		1.26		0	0

Shaded = MDL exceeds NYSDEC Soil Cleanup Objective

BOLD and Shaded = Concentration exceeds the NYSDEC Soil Cleanup Objective

B : Compound was found in the blank and sample.

ND = Not detected.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is

D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries re

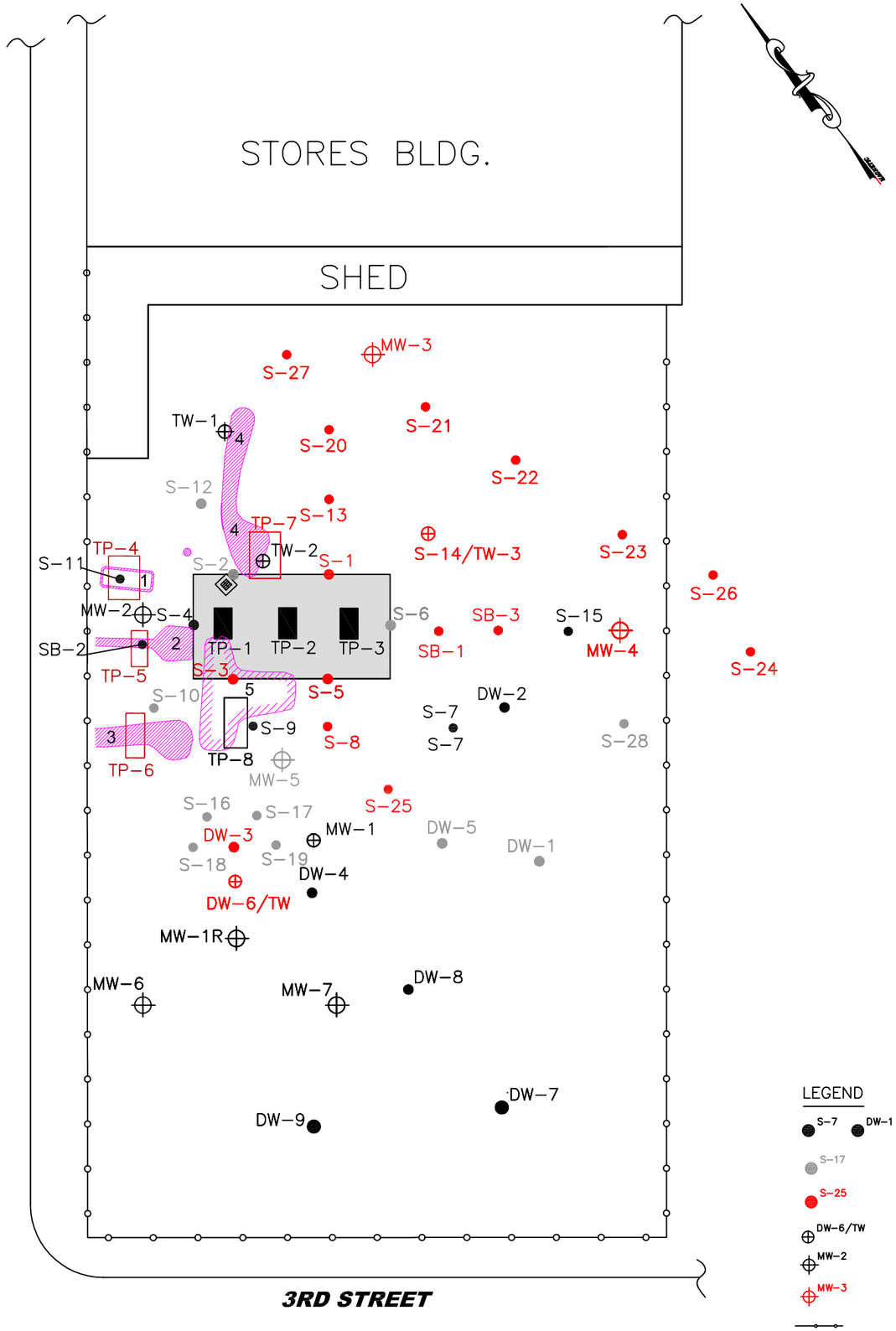
ppm = Parts per million

*T= There are no TICs reported for the sample

J B : Result is less than the RL but greater than or equal to the MDL and the concentration i

J D : Sample results are obtained from a dilution; the surrogate or matrix spike recoveries re

^All samples have been rounded to the hundredth decimal place, as requested by Con Edis



SEMI–VOLATILE ORGANIC COMPOUND SOIL ANALYTICAL RESULTS

Sample ID and Depth (feet below ground surface)	Lab ID	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
DEC CP-51 Soil Cleanup Objectives (ppm)			20	100	100	1.0	1.0	1.0	100	0.8	1.0	0.33	100	30	0.5	12.0	100	100
DW-1 (8.5-9.0')	460-22102-1	1/14/2011	7.8	ND	4.7	7.9	6.9	7.7	5.0	3.0	9.3	0.83	19	5.1	5.1	4.8	28	18
DW-2 (7.5-8.0')	460-22102-2	1/14/2011	0.19J	ND	ND	0.031J	0.095	0.060	0.17J	0.022J	ND	0.011J	0.069J	ND	0.11	0.54	0.090J	0.098J
DW-3 (7.5-8.0')	460-22102-3	1/14/2011	24J	96	23J	17	22	14	12J	4.6J	19J	ND	55	52J	8.0	940	150	100
DW-3 (9.5-10.0')	460-22102-4	1/14/2011	1.7J	1.9J	0.93J	1.0	1.1	0.95	0.80J	0.34	1.2J	0.081J	2.6	1.4J	0.68	37	4.9	3.9
DW-4 (8.5-9.0')	460-22102-5	1/14/2011	ND	ND	ND	0.071	0.071	0.070	0.058J	0.029J	0.077J	0.0085J	0.14J	ND	0.052	0.53	0.15J	0.17J
DW-5 (8.5-9.0')	460-22102-6	1/14/2011	0.66	ND	1.5	0.72	1.0	0.63	0.81	0.21	0.75	0.045	1.6	0.65	0.59	0.57	4.4	2.7
DW-6 (7.5-8.0')	460-22102-7	1/14/2011	3.3J	ND	1.3J	0.52	0.48J	0.33J	ND	0.13J	ND	ND	1.5J	1.2J	0.29J	110	3.9J	2.6J
DW-7 (8.0-9.0')	460-22860-1	2/4/2011	ND	ND	0.066J	0.26	0.28	0.26	0.18J	0.18	0.31J	ND	0.42	ND	0.15	ND	0.28J	0.45
DW-8 (8.0-9.0')	460-22860-2	2/4/2011	ND	ND	0.070J	0.087	ND	0.072	ND	ND	0.094J	ND	0.23J	ND	ND	ND	0.26J	0.15J
DW-8 (11.5-12.5')	460-22860-3	2/4/2011	3	ND	5.1	5.3	4.5	4.8	2.5	2.3	5.3	0.96	11	3.7	2.4	3.8	18	12
DW-9 (8.0-9.0')	460-22860-4	2/4/2011	ND	ND	ND	ND	ND	0.049	ND	ND	0.059J	ND	0.090J	ND	ND	ND	0.069J	0.083J
S-1	460-22103-1	1/14/2011	58.0	1.7J	33.0	14.0	18.0	13.0	13.0	4.4	16.0	0.55	47.0	27.0	8.2	23.0	88.0	82.0
S-2	460-22103-2	1/14/2011	3.0	8.7	2.5	1.8	2.5	1.5	2.2	5.5	1.9	0.120	5.5	4.4	1.5	6.6	13.0	9.3
S-3	460-22103-3	1/14/2011	0.45J	0.22J	0.94	2.3	5.7	3.9	9.7	1.6	2.8	0.530	4.9	0.710J	6.1	19.0	4.0	8.5
S-4	460-22103-4	1/14/2011	ND	ND	ND	0.11	0.27	0.21	0.39	0.08	0.13J	0.026J	0.15J	ND	0.27	ND	0.098J	0.26J
S-5	460-22103-5	1/14/2011	3.3	ND	1.0J	0.58	0.66	0.53	0.6J	0.2	0.66J	0.048J	1.8J	1.4J	0.41	25.0	3.9	2.5
S-6	460-22103-6	1/14/2011	1.7J	ND	2.1	2.1	1.9	2.2	1.3J	0.79	2.3	0.22	5.6	1.3J	1.4	3.4	6.6	5.3
TW-1 (8.5-9.0')	460-22103-7	1/14/2011	0.89	ND	0.17J	0.1	0.13	0.11	0.12J	0.040	0.12J	0.018J	0.33J	0.26J	0.1	7.0	0.77	0.49
TB	460-22103-8	1/14/2011	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
SB-1 (8.0-9.0')	460-22861-1	2/4/2011	39D	2.4JD	12D	7.1D	13D	7.3D	10JD	4.5D	10JD	ND	22D	12D	4.3D	250D	36D	25D
SB-1 (14.0-15.0')	460-22861-3	2/4/2011	1.2	0.085J	0.53	0.95	0.94	0.89	0.62	0.47	1.1	0.086	1.9	0.44	0.39	4.7	2	2.1
SB-2 (8.0-9.0')	460-22861-2	2/4/2011	ND	ND	ND	0.097	0.12	0.12	0.075J	0.060	0.11J	ND	0.16J	ND	0.044	ND	0.076J	0.2J
SB-3 (9.0-10.0')	460-22861-5	2/4/2011	92D	ND	49JD	22D	28D	16D	15JD	10D	21JD	ND	76D	57D	7.9D	1100D	170D	90D
MW-1 (8.0-8.5')	460-22861-4	2/4/2011	5.7	0.2J	0.36J	0.32	0.57	0.37	0.47	0.20	0.39	ND	0.92	0.49	0.22	1.8	1.4	1.1
MW-2 (8.5-9.0')	460-00039110-006	4/12/2012	ND	ND	0.110J	0.20	0.15	0.16	0.078J	0.095	0.190J	ND	0.48	ND	0.069	0.050J	0.55	0.43
MW-3 (9.0-9.5')	460-39572-18-DL	04/26/2012	16JD	35D	13JD	8.5D	10D	6.4D	5.5JD	2.1JD	7.2JD	ND	23JD	22JD	3.7D	460DB	63D	39D
MW-3 (11.5-12.0')	460-39572-19	04/26/2012	0.330J	ND	0.160J	0.440	0.470	0.520	0.330J	0.240	0.480	ND	0.860	0.091J	0.330	3.7B	0.740	0.840
MW-4 (9-9.5')_DL	460-00039111-005_DL	04/13/2012	150D	3.3JD	50D	26D	41D	25D	26D	8.8D	26D	1.1JD	92D	57D	16D	390D	190D	130D
DUP (9-9.5')	460-00039111-007	04/13/2012	4.8	ND	1.8	0.76	0.96	0.56	0.53J	ND	0.75	ND	3.0	1.9	0.3	9.4	6.6	4.3
MW-4 (14.5-15')	460-00039111-006	04/13/2012	6.3	ND	0.081J	0.046	0.044	0.044	ND	ND	0.046J	ND	0.17J	0.45	0.012J	5.7	0.55	0.23J
MW-5 (8-8.5')	460-00039111-002	04/13/2012	7.9	0.620J	0.98	1.2	1.2	1.3	0.620J	0.58	1.4	0.096	3.2	2.2	0.54	7.1	3.7	2.6
S-10 (8.5-9.0')	460-00039110-001	04/12/2012	0.110J	0.230J	0.280J	0.940	1.3	1.3	1.0	0.520	1.0	0.150	2.0	0.140J	0.87	1.0	1.40	1.9
S-11(10-10.5)	460-00039811-001	04/30/2012	ND	ND	ND	0.059	0.049	0.061	0.040J	0.031J	0.055J	ND	0.130J	ND	0.035	ND	0.180J	0.120J
S-12 (8.5-9.0')	460-00039110-002	04/12/2012	1.2	0.150J	0.73	1.7	1.8	2.2	1.4	0.75	1.8	0.2	4.0	0.53	1.2	2.5	3.6	3.1
S-13 (11-11.5')	460-00039110-004	04/12/2012	5.200	ND	3.5	3.6	3.0	3.6	2.0J	1.9	4.1	0.230	12.0	5.2	1.8	23	15.0	12.0
S-13 (9-9.5')	460-00039110-003	04/12/2012	2.6	ND	0.45	0.18	0.18	0.14	0.110J	0.061	0.180J	ND	0.65	1.0	0.052	6.0	2.2	1.1
S-14 (12.5-13.0')_DL	460-00039020-003_DL	04/11/2012	130D	ND	160D	140D	140D	150D	79D	62D	150D	14D	410D	110D	80D	140D	610D	350D
S-14 (9.5-10.0')	460-00039020-002	04/11/2012	26	0.450J	7.6	3.2	3.5	2.3	2.2	0.8	2.9	ND	13.0	10.0	1.5	24	32	18
S-15 (10-10.5')	460-00039020-004	04/11/2012	0.840	0.063J	0.42J	0.7	1.0	0.9	0.740	0.4	0.8	0.074	1.5	0.380J	0.5	2.7	1.7	2.0
S-15 (15-15.5')	460-00039020-005	04/11/2012	ND	ND	ND	0.054	0.044	0.044	ND	ND	0.062J	ND	0.086J	ND	ND	0.077J	0.077J	0.097J
S-16 (8.5-9.0')	460-00039110-005	04/12/2012	ND	2.0	0.280J	5.0	24	17	30.0	4.9	6.2	2.0	5.3	ND	18	ND	0.250J	27
S-17 (10.5-11')	460-00039111-001	04/13/2012	17	ND	10	12	11	13	5.7	4.4	12	1.4	27	8.8	5.4	7.6	35	21
S-18 (9.0-9.5')	460-00039020-006	04/11/2012	1.300	0.240J	1.9	3.5	3.9	4.3	2.9	1.4	3.7	0.48	9.1	1.4	2.4	1.2	9.0	7.2
S-19 (7.5-8.0')_DL	460-00039020-007_DL	04/11/2012	ND	5.1D	1.9JD	17D	33D	20D	26D	8.1D	15D	1.9D	27D	ND	16D	2.3JD	1.1JD	29D
S-20 (8-8.5')_DL	460-00039110-007_DL	04/12/2012	270D	ND	15.0JD	4.2JD	3.2JD	1.7JD	ND	1.6JD	ND	ND	21.0JD	54D	ND	690D	71D	29JD
S-20 (10.5-11')	460-00039110-008	04/12/2012	7.8	ND	ND	0.220	ND	ND	ND	ND	ND	ND	0.320J	1.80J	ND	27.0	2.0	0.400J
S-21 (9.0-9.5')	460-39572-3	04/26/2012	23JD	170D	30JD	25D	31D	19D	16JD	10D	24JD	ND	75D	71D	13D	1200BD	200D	150D
S-21 (11.5-12.0')	460-39572-4	04/26/2012	0.920	0.070J	0.710	1.1	1.2	1.2	0.860	0.460	1.2	0.140	2.3	0.420J	0.860	3.1B	2.8	2.1
S-22 (9.0-9.5')	460-39572-5-DL	04/26/2012	150D	18JD	33JD	22D	26D	17D	16JD	5.9D	21JD	ND	75D	61D	10D	810DB	180D	120D
S-22 (12.0-12.5')	460-39572-6	04/26/2012	0.700J	ND	ND	0.011	0.098	0.130	0.061J	ND	0.110J	ND	0.240J	ND	0.061J	7.7B	0.260J	0.240J
S-23 (9.0-9.5')	460-39572-7	04/26/2012	25JD	270D	42JD	37D	46D	26D	25JD	12D	34JD	ND	110D	100JD	16D	2300DB	300D	210D
S-23 (12.0-12.5')	460-39572-8	04/26/2012	ND	ND	ND	0.110	0.091	0.110	0.060J	0.051	0.110J	ND	0.180J	ND	0.056	0.430B	0.180J	0.190J
S-24 (8.5-9.0')	460-39572-9	04/26/2012	340D	ND	79JD	40D	46D	32D	26JD	ND	37JD	ND	120JD	110JD	18JD	2700DB	330D	220D
S-24 (11.5-12.0')	460-39572-10	04/26/2012	5.6	ND	0.230J	0.420	0.490	0.560	0.290J	0.190	0.420J	ND	0.730J	0.860J	0.280	9.4B	1.4	0.910J
S-25 (9.0-9.5')	460-39572-11	04/26/2012	64JD	200JD	53JD	45D	52D	30D	26JD	15JD	41JD	ND	140JD	120JD	18JD	2900DB	350D	220JD
S-25 (11.5-12.0')	460-39572-12	04/26/2012	0.310J	0.330J	0.220J	0.260	0.290	0.210	0.190J	0.100	0.250J	0.011J	0.650	0.380J	0.130	5.5B	1.4	0.940
S-26 (8.5-9.0')	460-39572-13	04/26/2012	600D	ND	120JD	81D	86D	50JD	47JD	22JD	67JD	ND	250JD	230JD	32JD	7800DB	680D	410JD
DUP (DL)	460-39572-21-DL	04/26/2012	23JD	200D	32JD	26D	33D	20D	20JD	7.8JD	26JD	ND	85JD	73JD	10JD	1600DB	230D	150D
S-26 (11.5-12.0')	460-39572-14	04/26/2012	0.910	ND	ND	0.054	0.051	0.057	0.035J	0.026J	0.065J	ND	0.140J	0.130J	0.021J	5.1B	0.2J	0.16J
S-27 (8.0-8.5')	460-39572-15	04/26/2012	58D	12D	9.2D	5.3D	6.3D	4.5D	4.6JD	2.1D	5.1JD	ND	17D	24D	2.9D	130DB	48D	27D
S-27 (11-11.5')	460-39572-16	04/26/2012	1.7	ND	ND	0.068	0.075	0.085	0.052J	0.035J	0.070J	ND	0.130J	0.170J	0.052J	1.2B	0.170J	0.150J
S-28 (10.0-10.5')	460-39572-17	04/26/2012	1.3	ND	2.3	2.9	2.8	2.6	2.3	1.1	2.9	0.450	7.2	0.980	2.4	2.3B	8.2	5.1
S-7 (10-10.5')	460-00039020-001	04/11/2012	0.390J	ND	0.160J	0.320	0.350	0.410	0.190J	0.150	0.370J	0.053	0.850	0.120J	0.220	0.680	0.740	0.620
S-8 (7-7.5')_DL	460-00039111-003_DL	04/13/2012	180JD	44D	160JD	120D	140D	89D	77JD	39D	120JD	ND	330D	270D	49D	5200D	920D	670D
S-8 (10-10.5')	460-00039111-004	04/13/2012	0.64J	0.610J	0.93	0.91	1.2	0.98	0.73J	0.39	1.0	0.057J	2.8	1.1	0.54	6.5	4.7	3.5
S-9 (9.0-9.5')	460-39572-1	04/26/2012	1.8	ND	0.220J	0.100	0.083	0.065	0.050J	0.029J	0.088J	ND	0.380J	0.390J	0.040	0.120JB	0.950	0.650
S-9 (11-11.5')	460-39572-2	04/26/2012	0.170J	ND	ND	0.046J	0.041J	0.043J	ND	0.020J	ND	ND	0.079J	ND	0.028J	0.120JB	0.110J	0.100J
TP-4 (6.5-7)	460-00038871-002	04/05/2012	ND	ND	0.056J	0.22	0.27	0.34	0.19J	0.14	0.27J	0.045	0.53	ND	0.2	ND	0.33J	0.44
TP-7 (7.5-8.0')_DL	460-00038732-001_DL	04/04/2012	56D	ND	12D	6.4D	7.0D	5.0D	5.0D	1.8D	6.3D	0.28JD	22D	19D	3.2D	19D	53D	37D
TP-8 (7-7.5')	460-00039338-003	04/18/2012	38	10	46	36	40	24	26	12	33	ND	96	39	18	3.6	230	150
TP-8 (10.5-11')	460-00039338-002	04/18/2012	8.1	0.19J	1.1	1.0	1.0	0.92	0.6	0.36	0.91	ND	2.5	1.7	0.48	6.8	5.6	5.3

LEGEND

- S-7 / DW-1 — SOIL BORING
- S-17 — FALLS WITHIN STANDARD HISTORIC FILL VALUES RANGE
- S-25 — EXCEEDS SVOC STANDARD
- DW-6/TW — SOIL BORING/TEMPORARY WELL
- MW-2 — MONITORING WELL
- MW-3 — EXCEEDS SVOC STANDARD
- FENCE
- DRYWELL EXCAVATION AREA
- TP-1 — TEST PIT
- TP-4 — TEST PIT – 4/2012
- TP-7 — EXCEEDS SVOC STANDARD
- 4 — METAL–DETECTOR ANOMALY (NAEVA)

SCALE
0 20
10 (IN FEET) 40

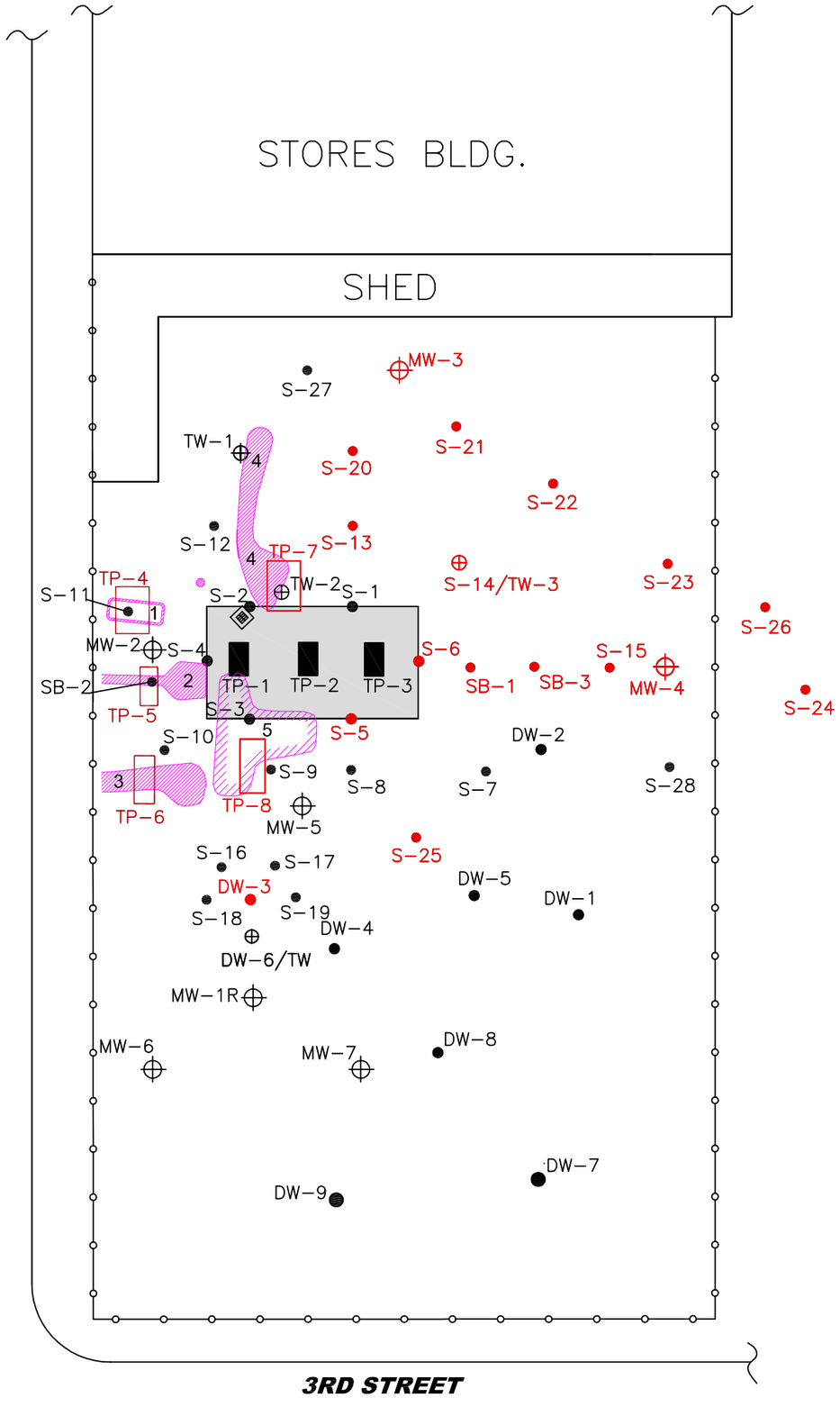
CON EDISON 3RD AVENUE YARD
BUILDING DEMOLITION AREA
BROOKLYN, NEW YORK

SOIL BORING LOCATIONS AND
SVOC ANALYTICAL RESULTS

FIGURE 3

REVISED:	CJM	DRAWN:	DDL	CHECKED:	DDL
		SCALE:	AS SHOWN		
DATE:	05/15/12	DATE:	05/02/12	DATE:	05/16/12

FIRST ENVIRONMENT
BOONTON NEW JERSEY



VOLATILE ORGANIC COMPOUND SOIL ANALYTICAL RESULTS

Sample ID and Depth (feet below ground surface)	Lab ID	Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	n-Butylbenzene	N-Propylbenzene	p-Isopropyltoluene	Toluene	Total Xylenes
DEC CP-51 Soil Cleanup Objectives (ppm)			**3.6**	**8.4**	**0.06**	**1.0**	**2.3**	**12**	**3.9**	**10.0**	**0.7**	**0.26**
MW-2 (8.5-9.0')	460-00039110-006	4/12/2012	ND	ND	ND	ND	ND	ND	ND	ND	0.00064J	ND
MW-3 (9.0-9.5')	460-39572-18	4/26/2012	2.60J	1.50J	ND	**10**	0.770J	ND	0.970J	ND	ND	**4.1J**
MW-3 (11.5-12.0')	460-39572-19	4/26/2012	0.040J	0.025J	0.110J	0.110J	0.360	ND	0.042J	0.039J	0.051J	0.089J
MW-4 (9-9.5')	460-00039111-005	4/13/2012	**4.0**	1.6	0.046J	**4.6**	1.3	ND	1.5	1.1	0.049J	1.8
DUP (9-9.5')	460-00039111-007	4/13/2012	**11**	3.7	0.031J	**11**	**2.5**	ND	3.0	2.4	0.099	**3.9**
MW-4 (14.5-15')	460-00039111-006	4/13/2012	0.00027J	ND	0.00032J	0.00047J	0.00027J	ND	ND	ND	0.00040J	ND
MW-5 (8-8.5')	460-00039111-002	4/13/2012	ND	ND	0.0019	0.0011	0.00026J	ND	ND	ND	0.0016	ND
S-10 (8.5-9.0')	460-00039110-001	4/12/2012	ND	ND	ND	0.00019J	ND	ND	ND	0.00023J	0.00076J	ND
S-11 (10-10.5)	460-00039811-001	4/30/2012	0.00015J	ND	ND	ND	ND	ND	ND	ND	0.00020J	ND
S-12 (8.5-9.0')	460-00039110-002	4/12/2012	0.058J	ND	0.015J	0.035J	0.022J	0.019J	0.014J	0.12	0.17	ND
S-13 (9-9.5')	460-00039110-003	4/12/2012	**14**	5.9	0.046J	**30**	**3.6**	ND	2.5	2.3	0.19	**8.5**
S-13 (11-11.5')	460-00039110-004	4/12/2012	0.00081J	0.00028J	0.00049J	0.0018	0.00077J	ND	ND	ND	0.0012	ND
S-14 (9.5-10.0')	460-00039020-002	4/11/2012	**120**	**46**	**0.970J**	**320**	**41.0**	**21**	**25**	**18**	**2.0**	**80.0**
S-14 (12.5-13.0')	460-00039020-003	4/11/2012	1.4	0.56	ND	**1.1**	0.37	1.2	0.3	1.2	ND	ND
S-15 (10-10.5')	460-00039020-004	4/11/2012	0.650	0.370	**0.170**	**2.200**	1.300	1.6	1.6	0.32	0.100J	0.990
S-15 (15-15.5')	460-00039020-005	4/11/2012	0.072J	0.031J	**0.100J**	0.160	0.084J	0.091J	0.1J	0.04J	0.030J	0.094J
S-16 (8.5-9.0')	460-00039110-005	4/12/2012	ND	ND	ND	ND	ND	ND	ND	ND	0.00017J	ND
S-17 (10.5-11')	460-00039111-001	4/13/2012	0.0073	ND	0.0015	0.0033	0.037	0.006	0.027	0.002	0.0015	0.0079
S-18 (9.0-9.5')	460-00039020-006	4/11/2012	0.042J	0.019J	0.089J	0.180	0.012J	ND	0.014J	0.016J	0.110	0.080J
S-19 (7.5-8.0')	460-00039020-007	4/11/2012	ND	ND	0.0029	0.00041J	ND	ND	ND	ND	0.0012	ND
S-20 (8-8.5')	460-00039110-007	4/12/2012	2.9	0.9	0.020J	**2.8**	1.0	ND	1.1	0.35	0.039J	**0.81**
S-20 (10.5-11')	460-00039110-008	4/12/2012	0.0032	0.00032J	0.001J	0.0095	0.0015	ND	0.001J	ND	0.00069J	0.0017J
S-21 (9.0-9.5')	460-39572-3	4/26/2012	**13**	8.3	0.120	**45**	**3.0**	ND	**4.2**	0.32J	0.680	**15**
S-21 (11.5-12.0')	460-39572-4	4/26/2012	0.00027J	ND	0.00030J	0.00046J	0.0011J	ND	0.00022J	ND	ND	ND
S-22 (9.0-9.5')	460-39572-5	4/26/2012	**6.6**	3.10	0.099J	**22**	**6.7**	ND	**4.1**	0.700J	0.170J	**2.700**
S-22 (12.0-12.5')	460-39572-6	4/26/2012	0.076J	0.027J	**0.360**	0.340	0.260	ND	0.075J	ND	0.029J	0.210J
S-23 (9.0-9.5')	460-39572-7	4/26/2012	**26**	**13**	**0.300J**	**83**	**6.1**	ND	**7.9**	0.600J	**5.0**	**82**
S-23 (12.0-12.5')	460-39572-8	4/26/2012	0.029J	ND	**1.3**	0.780	0.200	ND	ND	ND	0.08J	**0.400**
S-24 (8.5-9.0')	460-39572-9	4/26/2012	3.0	0.720J	ND	0.780J	2.0	ND	1.200	0.70J	ND	**0.820J**
S-24 (11.5-12.0')	460-39572-10	4/26/2012	0.150	0.074J	0.025J	0.100J	0.047J	ND	0.047J	0.038J	ND	ND
S-25 (9.0-9.5')	460-39572-11	4/26/2012	**4.6**	2.0	**0.130J**	**1.90**	1.70	ND	1.40J	0.420	0.650J	**1.20J**
S-25 (11.5-12.0')	460-39572-12	4/26/2012	0.020J	ND	0.015J	ND	ND	ND	ND	ND	ND	0.046
S-26 (8.5-9.0')	460-39572-13	4/26/2012	**16**	5.4	ND	**27**	**15**	ND	**8.1**	2.0J	0.520J	**13**
DUP	460-39572-21	4/26/2012	**15**	**8.4**	0.160J	**76**	2.1	ND	**4.8**	0.17J	**3.5**	**62**
S-26 (11.5-12.0')	460-39572-14	4/26/2012	0.120	0.058J	**0.067J**	0.960	0.036J	ND	0.036J	ND	0.056J	**0.420**
S-27 (8.0-8.5')	460-39572-15	4/26/2012	0.078J	ND	0.013J	0.072J	0.042J	ND	0.034J	ND	ND	ND
S-27 (11-11.5')	460-39572-16	4/26/2012	0.00080J	ND	0.00058J	0.0020	0.0090	ND	0.0012J	ND	0.00042J	0.0034J
S-28 (10.0-10.5')	460-39572-17	4/26/2012	0.160J	0.062J	0.044J	0.110J	0.120J	ND	0.027J	0.067J	0.027J	0.180J
S-7 (10-10.5')	460-00039020-001	4/11/2012	0.038J	ND	0.064J	0.340	0.140	ND	0.063J	0.018J	0.023J	0.092J
S-8 (7-7.5')	460-00039111-003	4/13/2012	1.5	0.45	ND	0.57	0.31	ND	0.24	0.18	ND	0.25J
S-8 (10-10.5')	460-00039111-004	4/13/2012	ND	ND	0.00022J	0.00020J	ND	ND	ND	ND	0.00067J	ND
S-9 (9.0-9.5')	460-39572-1	4/26/2012	0.0016	ND	0.00024J	0.0036	0.0089	0.0093	0.0060	ND	0.00022J	0.0024J
S-9 (11-11.5')	460-39572-2	4/26/2012	0.00035J	ND	ND	0.00084J	0.0026	0.0011J	0.0011J	0.00039J	0.00025J	ND
TP-4 (6.5-7')	460-00038871-002	4/5/2012	ND	ND	ND	ND	ND	ND	ND	ND	0.00028J	ND
TP-7 (7.5-8.0')	460-00038732-001	4/4/2012	**5.6**	2.3	0.045J	**4.1**	**1.5**	ND	1.2	1.4	0.050J	**1.2**
TP-8 (10.5-111')	460-00039338-002	4/18/2012	0.042J	ND	**0.13**	0.3	0.12	0.051J	0.11	0.069J	0.039J	0.074J
TP-8 (7.0-7.5')	460-00039338-003	4/18/2012	1.9	0.79	ND	0.89	0.83	ND	0.51	0.35	ND	ND

BOLD = Concentration exceeds the NYSDEC Soil Cleanup Objective

ND = Not detected

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Reported in ppm = Parts per million

*T= There are no TICs reported for the sample

1. MTBE, TBA, tert-butylbenzene, sec-butylbenzene, TICs and Total Confident concentrations were removed from this table due to no exceedenceds above the DEC CP-51 Soil Cleanup Objectives

- = Not Applicable

LEGEND

- S-7 / DW-1 — SOIL BORING
- S-22 — EXCEEDS VOC STANDARD
- DW-6/TW — SOIL BORING/TEMPORARY WELL
- MW-2 — MONITORING WELL
- MW-3 — EXCEEDS VOC STANDARD
- FENCE
- DRYWELL EXCAVATION AREA
- TP-1 — TEST PIT
- TP-4 — TEST PIT – 4/2012
- TP-7 — EXCEEDS VOC STANDARD
- 4 — METAL-DETECTOR ANOMALY (NAEVA)

SCALE

0 20 10 (IN FEET) 40

CON EDISON 3RD AVENUE YARD BUILDING DEMOLITION AREA

BROOKLYN, NEW YORK

SOIL BORING LOCATIONS AND VOC ANALYTICAL RESULTS

FIGURE 2

REVISED:	CJM	DRAWN:	DDL
		SCALE:	AS SHOWN
DATE:	05/15/12	DATE:	05/02/12
		CHECKED:	DDL
		DATE:	05/16/12

FIRST ENVIRONMENT

BOONTON NEW JERSEY

TABLE 1
Historic Groundwater Results Summary

Con Edison 3rd Avenue Employee Parking Lot

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butyl-benzene	sec-Butyl-benzene	Tert-Butyl-benzene	Naphthalene	MTBE	Tetrachloroethylene
NYS DEC GA Standard (ppb)		--	***1***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***5***
MW-1	9/2/2004	14.90	**4.42**	**70**	ND	**70**	**84**	**163**	ND	**10**	ND	ND	**10**	ND	ND	ND	ANR
	12/3/2004	14.96	**28**	**98**	ND	**89**	**80**	**143**	ND	ND	ND	ND	ND	ANR	ND	ND	ANR
	4/1/2005	14.09	ND	**6.0**	ND	**7.8**	**6.0**	**10**	ND	1.0	2.0	ND	1.0	ANR	ND	ND	ANR
	7/7/2005	14.48	**5.0**	**23**	ND	**7.0**	**61**	**100**	**8.0**	1.0	1.0	ND	**8.0**	ND	ND	ND	ANR
	10/13/2005	13.81	ND	**34**	3.0	**43**	**67**	**120**	1.0	3.0	**6.0**	ND	**11**	ANR	3.0	ND	ANR
	2/2/2006	15.85	**2.0**	**7.0**	ND	**5.0**	**26**	**35**	**5.0**	1.0	ND	3.0	3.0	ANR	2.0	ND	ANR
	6/15/2006	14.58	**2.0**	4.0	ND	1.0	**14**	**11**	2.0	ND	ND	ND	2.0	ANR	ND	ND	ANR
	9/28/2006	14.55	ND	3.0	ND	2.0	**16**	**14**	2.0	ND	ND	1.0	2.0	ND	ND	ND	ANR
	12/21/2006	14.97	**2.0**	**15**	ND	3.0	**47**	**65**	**6.0**	ND	ND	3.0	**8.0**	2.0	1.0	ND	ANR
	3/29/2007	15.46	**2.0**	**17**	ND	**10J**	**27**	**48**	**5.0**	2.0J	**5.0**	2.0J	4J	ND	3.0J	ND	ANR
	6/28/2007	14.86	ND	**15**	ND	4J	**44**	**64**	**6.0**	2.0J	ND	3.0J	**6.0**	1.0J	ND	ND	ND
	10/4/2007	12.50	ND	**6.0**	ND	2J	**45**	**43**	ND	1.0J	ND	2.0J	**9.0**	2.0J	ND	ND	ND
	12/18/2007	12.95	ND	ND	ND	3J	ND	ND	ND	ND	2.0J	ND	ND	1.0J	ND	4.0J	ND
	3/31/2008	13.10	0.9J	**16**	0.9J	1.4J	**39.0**	**73.0**	ND	ND	ND	3.8J	**5.40**	0.8J	ND	1.2J	ND
	6/23/2008	12.92	0.6J	**8.4**	ND	0.5J	**32**	**47**	4.9J	ND	ND	3.7J	**5.4**	ND	ND	0.5J	ND
	9/22/2008	12.70	0.9 J	**5.4**	0.6J	0.9J	**26**	**32**	ND	ND	ND	2.6 J	**6.3**	1.2J	0.4J	1.6 J	ND
	12/15/2008	13.32	ND	2.5 J	ND	ND	**6.4**	**11**	ND	0.3J	ND	ND	1.8J	0.5J	ND	0.6 J	ND
	3/23/2009	13.17	**10**	**98**	**26**	**120**	**74**	ND	1.5J	**77**	**21**	4.8	4.8	ND	8.5	0.8J	ND
	6/1/2009	13.3	0.77	**10**	0.56	3.10	**20**	**33**	2.50	0.20	1.10	0.99	2.5	0.75	0.60	1.50	0.20
	10/1/2009	13.04	**1.3**	1.0	0.22J	ND	**7.5**	**5.4**	ND	0.23J	ND	ND	3.9	1.50	ND	1.60	ND
	12/18/2009	12.30	0.33J	2.1	0.53J	3	4.7	**5.4**	0.79J	ND	ND	0.44J	1.4	0.64J	ND	0.44J	ND
	3/23/2010	11.70	**1.0**	1.0	1.0	0.89J	4.4	4.2	ND	ND	1.0	ND	ND	4.4	ND	0.39J	ND
	6/28/2010	12.10	0.45J	**5.1**	0.31J	1.5J	**13**	**16**	ND	0.21J	ND	1.2	3.2	1.0	ND	0.28J	ANR
	9/23/2010	12.88	0.58J	3.3	0.33J	2.7J	**33**	**28**	ND	0.35J	0.55J	1.3	**6.1**	1.2	ND	0.48J	ANR
	12/2/2010	12.90	0.88J	0.36J	0.37J	0.87J	**36**	**16**	0.29J	0.20J	ND	0.78J	**8.0**	1.5	ND	1.5	ND
	3/1/2011	12.51	ND	0.75J	0.13J	1.9J	1.2	1.1	0.92J	2.1	0.68J	0.38J	0.34J	0.21J	ANR	ND	ANR
	6/27/2011	12.40	ND	1.9	0.31J	0.74J	**22**	**22**	ND	ND	ND	ND	3.9	1.0	ANR	ND	ANR
	9/27/2011	10.95	0.32J	ND	ND	ND	2.8	1.2	ANR	ND	ND	ND	1.1	0.38J	ANR	ND	ANR
	12/8/2011	11.66	0.36J	1.7	0.23J	0.51J	**12**	**9.5**	ANR	ND	0.22J	0.67J	3.3	0.82J	ANR	0.20J	ANR
	3/8/2012	12.85	0.83J	2.4	0.47J	2.0J	**30**	**47**	0.41J	0.21J	0.98J	1.9	**5.8**	1.1	ANR	0.35J	ANR
	6/19/2012	12.58	**1.1**	**8.0**	ND	3.1	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	9/27/2012	12.10	0.69J	2.1	0.29J	1.4J	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	12/20/2012	12.73	**1.2**	1.7	0.67 J	2.13	**21**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	1.3	ND
	3/13/2013	12.75	0.17 J	0.69 J	0.29 J	0.63 J	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	3/17/2015	11.00	ND	0.34J	ND	ND	0.89J	1.2	ANR	ND	ND	ND	ND	ND	ND	0.21 J	ANR
	9/24/2015	12.15	ND	ND	ND	ND	0.85J	1.2	ANR	ND	ND	ND	0.41J	ND	ND	0.59J	ANR
MW-3	9/2/2004	16.97	**1.37**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR
	12/3/2004	17.10	**14**	**7.2**	ND	ND	**26**	**18**	ND	ND	ND	ND	ND	ANR	ND	ND	ANR
	4/1/2005	15.82	ND	**10**	0.9	3.0	**28**	**13**	ND	2.0	2.0	ND	4.0	ANR	6.0	ND	ANR
	7/7/2005	12.97	1.0	2.0	ND	1.0	**5.0**	2.0	ND	1.0	ND	ND	ND	ND	2.0	ND	ANR
	10/13/2005	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	2/2/2005	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	6/15/2006	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	9/28/2006	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	12/21/2006	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	3/29/2007	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	6/28/2007	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	10/4/2007	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	12/18/2007	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR

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TABLE 1
Historic Groundwater Results Summary

Con Edison 3rd Avenue Employee Parking Lot

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butyl-benzene	sec-Butyl-benzene	Tert-Butyl-benzene	Naphthalene	MTBE	Tetrachloroethylene
NYS DEC GA Standard (ppb)		--	***1***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***5***
MW-4	9/2/2004	15.30	**45**	**3070**	**1090**	**13620**	ANR	**231**	**9.69**	**1580**	**501**	ND	**11.1**	ND	**390**	ND	ANR
	12/3/2004	15.41	**31**	**2000**	**542**	**6420**	**73**	**146**	ND	**1100**	**351**	ND	ND	ANR	**244**	ND	ANR
	4/1/2005	14.42	**34**	**2200**	**600**	**10700**	ANR	**130**	ND	**1300**	**420**	ND	ND	ANR	**330**	ND	ANR
	7/7/2005	15.00	**28**	**1100**	**350**	**5500**	**36**	**64**	ND	**730**	**240**	ND	ND	ND	**180**	ND	ANR
	10/13/2005	14.72	ND	**2100**	**340**	**9100**	ND	**200**	ND	**1500**	**430**	ND	ND	ANR	**350**	ND	ANR
	2/2/2006	15.21	ND	**2200**	**310**	**6700**	ND	**230**	ND	**1600**	**350**	ND	ND	ANR	**470**	ND	ANR
	6/15/2006	15.02	**24**	**2000**	**350**	**7800**	**66**	**120**	**5.0**	**1200**	**270**	ND	**6.0**	ANR	**440**	ND	ANR
	9/28/2006	15.06	**14**	**2000**	**170**	**5800**	**76**	**150**	**6.0**	**1200**	**330**	ND	**7.0**	ND	**780**	ND	ANR
	12/21/2006	15.48	ND	**1800**	**230**	**6500**	**82**	**180**	ND	**1400**	**360**	ND	ND	ND	**340**	ND	ANR
	3/29/2007	18.38	ND	**1800**	**96**	**4120**	**75J**	**160J**	ND	**1100**	**330**	ND	ND	ND	**310**	ND	ANR
	6/28/2007	15.29	**9**	**480**	**53**	**1340**	**16**	**29**	1.0J	**260**	**60**	ND	1.0J	ND	**82**	ND	ND
	8/9/2007	14.48	ND	**1730**	**140**	**4750**	ND	**136**	ND	**1060**	**284**	ND	ND	ND	**307**	ND	ND
	10/4/2007	15.61	**10**	**1000**	**79**	**2960**	**34**	**68**	2.0J	**630**	**140**	3J	3.0J	ND	**110**	ND	ND
	12/18/2007	16.05	**10**	**1200**	**23**	**1130**	**43**	**74**	2.0J	**440**	**23**	ND	3.0J	ND	**64**	ND	ND
	3/31/2008	16.25	**17J**	**2600**	**190**	**5600**	**79J**	**210**	**9.6J**	**2000**	**300**	**28J**	**12J**	ND	**500**	ND	ND
	6/23/2008	14.00	**6.1J**	**1200**	**59**	**2500**	**40J**	**110**	ND	**830**	**150**	ND	ND	ND	**270**	ND	ND
	9/22/2008	13.85	0.9J	**200**	**8.4J**	**280**	**7.1J**	**21**	ND	**130**	**32**	**5.4J**	ND	ND	**110**	ND	ND
	12/15/2008	13.60	**3.8J**	**550**	**19J**	**310**	**22J**	**72**	ND	**360**	**67**	**20J**	4.9J	ND	**140**	ND	ND
	3/23/2009	14.73	**5J**	**1000**	**30**	**520**	**46**	**94**	3.0J	**230**	**48**	**6.4J**	4.4J	ND	**210**	ND	ND
	6/1/2009	14.30	**5.0**	**1300**	**44**	**1500**	**47**	**130**	**5.70**	**600**	**79**	3.0	**6.0**	1.80	**230**	1.80	1.80
	10/1/2009	14.14	**8.7J**	**910**	**55**	**1400**	**38**	**87**	ND	**470**	**110**	**11**	ND	ND	**180**	ND	ND
	12/18/2009	14.40	**5.2J**	**1100**	**42**	**650**	**52**	**120**	4.1J	ND	**97**	**12**	**6.0J**	ND	**210**	ND	ND
	3/23/2010	12.62	0.91J	**130**	**5.9**	**150**	**15**	**36**	2.9	**110**	**23**	**7.5**	3.4	0.27J	**44**	ND	ND
	6/28/2010	13.21	**3.9J**	**460**	**11**	**290**	**21**	**41**	1.5J	**190**	1.9J	2.5J	2.0J	ND	**82**	ND	ANR
	9/23/2010	14.08	**5.8**	**1300**	**15**	**260**	**52**	**140**	**5.2**	**490**	2.7J	**9.4**	**7.2**	ND	**37**	ND	ANR
	12/2/2010	13.80	**7.7J**	**1700**	**34**	**490**	**76**	**180**	**6.0J**	**750**	**23**	**9.0J**	**7.7J**	ND	**150**	ND	ND
	3/1/2011	13.48	0.17J	**26**	1.6	**27**	2.3	**6.0**	0.55J	**19**	0.87J	1.6	0.82J	ND	ANR	ND	ANR
	6/27/2011	13.40	**4.7**	ANR	**19**	**370**	**53**	**110**	4.8	**310**	3.2	**12**	**6.7**	ND	ANR	0.23J	ANR
	9/27/2011	11.93	**2.1**	**290**	**6.2**	**98**	**33**	**64**	ANR	**240**	1.1	**7.0**	4.2	0.36J	ANR	ND	ANR
	12/8/2011	12.60	**3.9**	**740**	**38**	**700**	**53**	**130**	ANR	**540**	**41**	**8.6**	**5.9**	0.54J	ANR	ND	ANR
	3/8/2012	12.89	**4.8**	**490**	**52**	**1800**	**40**	**98**	3.0	**310**	**83**	**8.0**	**5.5**	ND	ANR	0.28J	ANR
	6/19/2012	13.66	ND	**710**	**56**	**1,600**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	9/27/2012	13.21	**4.1 J**	**700**	**55**	**1,600**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	12/20/2012	13.55	ND	**690**	**66**	**1,267**	**55**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.99 J	ND
	3/13/2013	13.8	0.99 J	**120**	ND	**110**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	3/18/2015	11.62	ND	**9.7**	ND	**24**	1.7	3.8	ANR	**18**	2.8	1	0.34	ND	4	ND	ANR
	9/24/2015	13.13	**1.9J**	**740**	**39**	**1,100**	**40**	**77**	ANR	**530**	**74**	**8.3**	4	ND	**130**	ND	ANR

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Historic Groundwater Results Summary

Con Edison 3rd Avenue Employee Parking Lot

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butyl-benzene	sec-Butyl-benzene	Tert-Butyl-benzene	Naphthalene	MTBE	Tetrachloroethylene
NYS DEC GA Standard (ppb)		--	***1***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***5***
MW-5	9/2/2004	15.19	**1,730**	**3,170**	**7,070**	**16,600**	ANR	**234**	**5.97**	**1790**	**513**	ND	**12.1**	ND	**394**	ND	ANR
	12/3/2004	15.34	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	4/1/2005	14.32	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	7/7/2005	14.92	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	10/13/2005	14.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	2/2/2005	15.30	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	6/15/2006	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	9/28/2006	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	12/21/2006	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	3/29/2007	15.97	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	6/28/2007	15.41	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	10/4/2007	15.38	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	12/18/2007	15.79	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	3/31/2008	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	6/23/2008	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	9/22/2008	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	12/15/2008	14.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
MW-6	2/2/2006	15.56	**3.0**	**270**	**5.0**	**262**	**66**	**130**	**10**	**210**	**88**	ND	**9.0**	ANR	**120**	ND	ANR
	6/15/2006	12.32	ND	**83**	ND	**79**	**22**	**39**	3.0	**120**	**9.0**	ND	3.0	ANR	**62**	ND	ANR
	9/28/2006	12.25	ND	**150**	ND	**52**	**51**	**96**	**8.0**	**140**	**12**	**8.0**	**9.0**	ND	**47**	ND	ANR
	12/21/2006	12.68	ND	**120**	ND	**52**	**45**	**92**	**8.0**	**170**	**18**	**9.0**	**9.0**	ND	**32**	ND	ANR
	3/29/2007	13.35	ND	**56**	ND	**14**	**37**	**77**	**8.0**	**32**	**6.0**	**9.0**	**9.0**	1.0J	**11**	ND	ANR
	6/28/2007	12.62	ND	**74**	ND	**9.0**	**17**	**33**	3.0J	**45**	ND	ND	3J	ND	9.0	ND	ND
	10/4/2007	12.62	ND	**26**	ND	1J	**18**	**37**	ND	**10**	ND	**5 J**	**6.0**	ND	ND	4J	ND
	12/18/2007	13.22	ND	**45**	ND	**27J**	**21**	**43**	ND	**23**	ND	**6.0**	**5.0**	ND	9.0	4J	ND
	3/31/2008	13.21	ND	**25**	ND	3.8J	**25**	**58**	ND	4.6J	0.3J	**9.6**	**8.4**	1.0J	1.1J	1.4J	ND
	6/23/2008	13.10	ND	**34**	ND	3.7J	**25**	**58**	ND	4.6J	0.3J	**9.6**	**8.4**	1.0J	1.1J	1.4J	ND
	9/22/2008	13.00	ND	**52**	0.5J	4.6J	**26**	**60**	ND	3J	ND	**6.1**	**6.0**	0.7J	2.1J	0.5J	ND
	12/15/2008	14.49	ND	2.2J	0.4J	0.4J	**9**	**10**	ND	ND	ND	ND	2.7 J	0.5J	ND	1J	ND
	3/23/2009	13.82	ND	**6.4**	ND	1.8J	**16**	**33**	ND	1.40	0.2J	2.4	**5.2**	0.7J	ND	2.2	ND
	6/1/2009	13.55	0.13	**34**	0.09	**33**	**17**	**38**	**5.7**	**29**	**9.1**	3.20	**5.4**	0.78	**13**	1.8	0.20
	10/1/2009	13.25	ND	**27**	1.2	**20**	**14**	**24**	ND	**46**	**11**	**6.5**	3.6	0.51J	**13**	0.54J	ND
	12/18/2009	13.55	0.16J	**24**	1.2	**27**	**14**	**25**	**5.4**	**27**	**8.4**	3.2	4.3	0.70J	6.7	0.81J	ND
	3/23/2010	11.78	0.23J	**120**	0.45J	**190**	**25**	**39**	**6.0**	**210**	**60**	ND	4.9	0.92J	**78**	0.77J	ND
	6/28/2010	12.36	0.17J	**41**	0.57J	**31**	**17**	**29**	ND	**77**	**11**	**5.2**	**5.1**	0.8J	**20**	1.3	ANR
	9/23/2010	12.15	0.29J	**130**	0.42J	**110**	**35**	**75**	**6.5**	**250**	**34**	**12**	**8.0**	0.93J	**80**	0.72J	ANR
	12/2/2010	13.18	0.23J	**52**	0.40J	**49**	**23**	**39**	**4.6**	**120**	**19**	**5.7**	**6.3**	ND	**34**	1.1	ND
	3/1/2011	12.81	0.16J	**10**	ND	**9.5**	**7.2**	**11**	ND	**31**	3.5	2.6	3.6	0.58J	ANR	0.85	ANR
	6/27/2011	12.67	0.19J	**6.2**	0.26J	3.1	**5.7**	**8.1**	0.77J	**5.1**	0.72J	3.1	3.5	0.63J	ANR	1.1	ANR
	9/27/2011	11.24	ND	1.7	0.20J	1.0J	0.93J	0.65J	ANR	1.0	ND	ND	0.59J	0.23J	ANR	ND	ANR
	12/8/2011	11.95	0.22J	2.4	0.22J	4.7	3.4	**5.6**	ANR	**8.3**	0.29J	1.3	3.5	0.74J	ANR	0.70J	ANR
	3/8/2012	13.01	0.19J	3.5	0.27J	2.5J	2.8	3.4	0.44J	**5.2**	ND	0.98J	3.0	0.72J	ANR	0.97J	ANR
	6/19/2012	13.90	ND	0.84J	0.22J	0.90J	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	9/27/2012	12.50	0.23J	4.7	0.45J	3.1	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	12/20/2012	13.25	0.38 J	**16**	0.83 J	**16.77**	**10**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.93 J	ND
	3/13/2013	13.06	0.28 J	1.9	0.25 J	2.4 J	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	9/25/2015	12.51	0.12 J	ND	ND	0.56 J	1.4	0.48 J	ANR	ND	ND	0.36 J	2	0.58 J	ND	1	ANR

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SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butyl-benzene	sec-Butyl-benzene	Tert-Butyl-benzene	Naphthalene	MTBE	Tetrachloroethylene
NYS DEC GA Standard (ppb)		--	***1***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***5***
MW-7	6/28/2007	12.19	**160**	**2900**	**2600**	**12800**	**85**	**130**	**10**	**1900**	**470**	ND	**8.0**	ND	**1300**	ND	ND
	10/4/2007	12.26	**110**	**1900**	**1500**	**8200**	**81**	**140**	**10**	**1300**	**320**	**6.0**	**8.0**	ND	**260**	ND	ND
	12/18/2007	12.67	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	3/31/2008	12.79	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	6/23/2008	12.59	**95**	**2400**	**780**	**7800**	**18**	**36**	ND	2.4J	**440**	**5.6**	4.9J	ND	0.9J	1.0J	ND
	9/22/2008	12.50	**60**	**1100**	**260**	**1300**	**26J**	**57J**	ND	**700**	**130**	**9.5J**	ND	ND	**230**	ND	ND
	12/15/2008	13.13	**57**	**1700**	**350**	**2700**	**49J**	**110**	ND	**1500**	**130**	**11J**	ND	ND	**470**	ND	ND
	9/25/2015	12.46	**13**	**1,700**	**140**	**2,000**	**61**	**99**	ANR	**980**	**26**	**9.8**	**6.3**	ND	**71**	ND	ANR
MW-8	6/28/2007	12.49	**900**	**1100**	**2300**	**4900**	**33**	**67**	4.0J	**700**	**160**	**6.0**	**5.0J**	ND	**190**	ND	4J
	8/9/2007	11.37	**169**	**2230**	**1790**	**8830**	ND	**144**	ND	**1530**	**408**	ND	ND	ND	**481**	ND	ND
	10/4/2007	13.02	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	12/18/2007	13.00	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	3/31/2008	13.55	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	6/23/2008	13.38	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	9/22/2008	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	12/15/2008	13.28	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	3/18/2015	11.17	**230**	**1,400**	**750**	**9,900**	**110**	**330**	ANR	**4,400**	**1,300**	**210**	**41**	ND	**1,500**	ND	ANR
	9/25/2015	12.27	**320**	**890**	**590**	**5,900**	**52**	**120**	ANR	**1,500**	**450**	**47**	**12**	ND	**480**	ND	ANR
MW-9	6/28/2007	14.56	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	8/9/2007	13.38	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	10/4/2007	13.32	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	12/18/2007	13.45	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	3/31/2008	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	6/23/2008	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	9/22/2008	NM	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	12/15/2008	14.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	3/18/2015	12.55	**240**	**1,300**	**170**	**11,000**	**200**	**530**	ANR	**7,300**	**3,300**	**670**	**110**	ND	**1,500**	ND	ANR
	9/25/2015	14.75	**400**	**860**	**180**	**6,000**	**77**	**210**	ANR	**2,600**	**1,200**	**200**	**40**	ND	**670**	ND	ANR
RW-1	2/3/2006	12.00	**140**	**3200**	**860**	**11000**	**110**	**360**	**26**	**2400**	**740**	ND	**16**	ANR	ND	ND	ANR
	6/15/2006	11.78	**10**	**440**	**19**	**1339**	**25**	**51**	2.0	**390**	**110**	ND	3.0	ANR	**71**	ND	ANR
	9/28/2006	--	**8.0**	**670**	**24**	**1166**	**37**	**77**	2.0	**540**	**110**	ND	4.0	ND	**86**	ND	ANR
	12/21/2006	11.15	**17**	**360**	**19**	**530**	**30**	**52**	ND	**220**	**39**	ND	ND	ND	**46**	ND	ANR
	3/29/2007	12.55	ND	**180**	**22J**	**871**	ND	**16J**	ND	**124**	**67**	ND	ND	ND	**39J**	ND	ANR
	6/28/2007	12.06	**7.0**	**590**	**51**	**1690**	**33**	**69**	2.0J	**520**	**120**	ND	3.0J	ND	**110**	ND	ND
	10/4/2007	12.10	**7.0**	**580**	**51**	**1340**	**29**	**58**	2.0J	**430**	**91**	2.0J	2.0J	ND	**82**	ND	ND
	12/18/2007	12.57	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
	3/31/2008	12.72	**5.8**	**550**	**46**	**1000**	**22J**	**50**	2.4J	**620**	**100**	**7.6J**	2.7J	ND	**90**	ND	ND
	6/23/2008	12.50	**7.6**	**430**	**29**	**490**	**44**	**100**	ND	**320**	ND	ND	ND	ND	**54**	ND	ND
	9/22/2008	12.30	**8.9**	**650**	**36**	**290**	**86**	**230**	ND	**370**	ND	ND	ND	ND	**64**	ND	ND
	12/15/2008	12.89	**6.1**	**400**	**15 J**	**76**	**56**	**170**	ND	**240**	4.9 J	**7.7J**	4.2 J	ND	**16 J**	ND	ND
	3/23/2009	13.53	**1.1**	0.8J	0.3J	1.2J	**9.2**	**8**	ND	0.3J	ND	0.6J	2.4	1.2	ND	3.5	ND
	6/1/2009	12.86	**7.5**	**610**	**46**	**600**	**48**	**130**	1.90	**300**	**94**	3.0	2.0	1.80	**84**	1.8	2.0
	10/1/2009	12.63	**9.5**	**270**	**34**	**190**	**110**	**250**	ND	**120**	**94**	**18**	**8.9**	ND	**37**	ND	ND
	12/18/2009	12.90	**3.1**	**260**	**15**	**80**	**46**	**100**	ND	**98**	**31**	**5.8**	4.1	ND	**38**	ND	ND
	3/23/2010	11.11	**16**	**670**	**93**	**790**	**64**	**150**	2.0	**78**	**39**	3.6	4.0	ND	34	ND	ND
	6/28/2010	11.73	**4.7**	**560E**	**32**	**420**	**52**	**120**	2.0	**210**	**87**	**8.3**	4.2	ND	**110**	ND	ANR
	9/23/2010	12.52	**18**	**170**	**72**	**740**	**96**	**260**	2.7	**63**	**170**	**13**	**6.8**	0.45J	**52**	0.19J	ANR
	12/2/2010	12.52	**12**	**140**	**49**	**310**	**120**	**280**	2.8	**44**	**130**	**9.4**	**7.1**	0.48J	**43**	ND	ND
	3/1/2011	12.13	0.38J	**20**	2.4	**24**	2.6	**6.6**	0.25J	**9.8**	2.7	0.70J	0.45J	ND	ANR	ND	ANR
	6/27/2011	12.00	**5.9**	**510**	**58**	**680**	**85**	**190**	2.8	**150**	**160**	**11**	**6.5**	0.55J	ANR	ND	ANR
	9/27/2011	10.58	**4.8**	**410**	**24**	**290**	**64**	**160**	ANR	**140**	**150**	ND	**5.8**	0.51J	ANR	ND	ANR
	12/8/2011	11.27	**2.3**	**250**	**17**	**190**	**37**	**92**	ANR	**73**	**93**	**7.6**	3.5	0.33J	ANR	ND	ANR
	3/8/2012	12.45	**13**	**46**	**28**	**73**	**69**	**180**	1.8	**6.1**	**38**	ND	**5.1**	0.43J	ANR	ND	ANR
	6/19/2012	12.20	**1.9**	**140**	**9.0**	**48**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	9/27/2012	11.75	**2.5**	**55**	**11**	**49**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	12/20/2012	12.35	**2.2**	**36**	**8.4**	**31.6**	**13**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ND
	3/13/2013	12.35	**2.1**	**45**	**9.5**	**55**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	3/17/2015	10.68	**3.7**	**130**	**23**	**160**	**62**	**150**	ANR	**14**	**53**	**13**	**7**	ND	**65**	ND	ANR
	9/24/2015	11.75	**1.3**	**18**	**7.7**	**30**	**17**	**31**	ANR	2	**8**	2.2	1	ND	6	0.2J	ANR

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TABLE 1
Historic Groundwater Results Summary

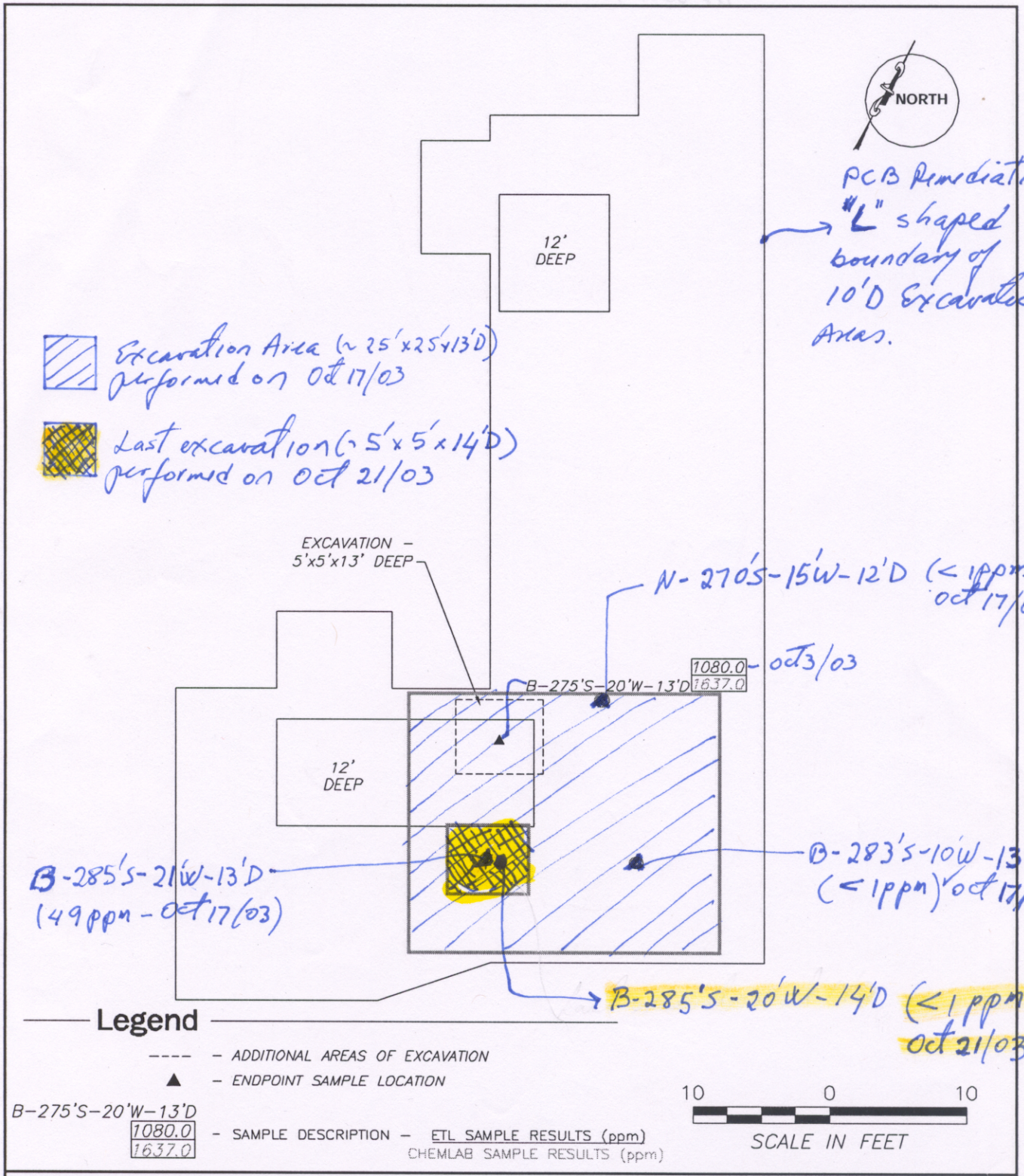
Con Edison 3rd Avenue Employee Parking Lot

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Benzene	Ethylbenzene	Toluene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butyl-benzene	sec-Butyl-benzene	Tert-Butyl-benzene	Naphthalene	MTBE	Tetrachloroethylene
NYS DEC GA Standard (ppb)		--	***1***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***5***
RW-2	6/28/2007	15.06	**520**	**1600**	**1500**	**7600**	**98**	**260**	**7.0**	**1500**	**450**	ND	**14**	ND	**330**	ND	ND
	10/4/2007	15.06	**360**	**2100**	**2700**	**11200**	**61**	**130**	4J	**1400**	**390**	**8.0**	**8.0**	ND	**210J**	ND	ND
	12/18/2007	15.55	**420**	**2100**	**1800**	**11000**	**73**	**140**	**5.0J**	**1600**	**430**	**7.0**	**8.0**	ND	**260**	ND	ND
	3/31/2008	15.70	**320**	**2000**	**2000**	**12000**	**40J**	**92J**	ND	**1500**	**400**	ND	ND	ND	ND	ND	ND
	6/23/2008	14.07	**350**	**2400**	**1700**	**14000**	ND	**97J**	ND	**1500**	**380J**	ND	ND	ND	**290J**	ND	ND
	9/22/2008	14.24	**340**	**2700**	**1400**	**14000**	**47J**	**120 J**	ND	**1500**	**390 J**	ND	ND	ND	**300J**	ND	ND
	12/15/2008	14.81	**330**	**2800**	**550**	**14000**	**52J**	**150 J**	ND	**2100**	**410**	ND	ND	ND	**430**	ND	ND
	3/23/2009	15.01	**350**	**2600**	**430**	**14000**	**82**	**160**	ND	**2100**	**640**	ND	ND	ND	**470**	ND	ND
	6/1/2009	14.74	**320**	**2300**	**640**	**12000**	**58**	**140**	**13.00**	**1600**	**460**	**7.50**	**5.00**	4.5	**330**	4.5	4.5
	10/1/2009	14.48	**200**	**2300**	**150**	**11000**	**67**	**150**	ND	**1600**	ND	**29**	ND	ND	**340**	ND	ND
	12/18/2009	14.75	**13**	**710**	**16**	**1700**	**32**	**59**	3.5J	**330**	**300**	**16**	3.9J	ND	**88**	0.96J	ND
	3/23/2010	12.98	**200**	**2200**	**460**	**10000**	**67**	**160**	4.7J	**1600**	**470**	**20**	**8.7J**	ND	**430**	ND	ND
	6/28/2010	13.55	**260**	**3000**	**550**	**14000**	**88**	**180**	**21J**	**2000**	**590**	**35J**	**15J**	ND	**480**	ND	ANR
	9/23/2010	13.00	**4.7**	**320**	**5.3**	**640**	**15**	**38**	ND	**140**	**160**	**8.2**	2.2	ND	**86**	0.45J	ANR
	12/2/2010	14.39	**170**	**2300**	**140**	**10000**	**62**	**130**	4.8J	**1600**	**400**	**20**	**7.7J**	ND	**370**	ND	ND
	3/1/2011	13.63	**9.9**	**920**	**11**	**1100**	**51**	**120**	3.3J	**260**	**310**	**19**	**5.8**	ND	ANR	ND	ANR
	6/27/2011	13.48	**15**	**970**	**17**	**1600**	**53**	**94**	3.6J	**380**	**410**	ND	**6.3**	ND	ANR	1.1J	ANR
	9/27/2011	12.05	**12**	**670**	**12**	**980**	**28**	**70**	ANR	**180**	**200**	**6.3**	3.3J	ND	ANR	1.7J	ANR
	12/8/2011	11.84	**9.6**	**600**	**14**	**880**	**33**	**62**	ANR	**220**	**270**	**14**	4.0	ND	ANR	1.1J	ANR
	3/8/2012	13.97	**10**	**710**	**13**	**610**	**49**	**120**	4.2	**240**	**330**	ND	**6.4**	ND	ANR	1.6J	ANR
	6/19/2012	13.67	**11**	**530**	**13**	**270**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	9/27/2012	13.30	**10**	**830**	**16**	**710**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	12/20/2012	13.80	**11**	**460**	**14**	**418**	**43**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	2.6	ND
	3/13/2013	13.90	**18**	**560 H D**	**23**	**640**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	3/17/2015	12.20	**6.5**	**220**	**12**	**220**	**37**	**94**	ANR	**120**	**160**	**12**	3.5	ND	**230**	ND	ANR
	9/24/2015	13.28	**9.0**	**350**	**16**	**370**	**76**	**160**	ANR	**150**	**180**	**14**	**7**	ND	**180**	1.60	ANR
RW-3	6/28/2007	14.63	**170**	**1900**	**280**	**7500**	**120**	**230J**	**6.0**	**1400**	**400**	ND	**14**	ND	**400**	2J	ND
	10/4/2007	14.75	**43**	**1800**	**95**	**8470**	**81**	**190**	**5J**	**1500**	**410**	**10**	**10**	ND	**220J**	**11**	ND
	12/18/2007	15.15	**45**	**1700**	**65**	**7890**	**89**	**160**	**7.0**	**1800**	**570**	**12**	**13**	ND	**160J**	**10**	ND
	3/31/2008	19.32	**30**	**630**	**41J**	**5400**	**17J**	**25J**	ND	**1200**	**390**	**18J**	ND	ND	**260**	ND	ND
	6/23/2008	14.28	**32J**	**1500**	**50J**	**7700**	**35J**	**82J**	ND	**1600**	**490**	ND	ND	ND	**230J**	ND	ND
	9/22/2008	14.00	**30J**	**1400**	**74J**	**6500**	**42J**	**100J**	ND	**1200**	**450**	**26J**	ND	ND	**250**	ND	ND
	12/15/2008	14.55	**16J**	**470**	**28J**	**2400**	**16J**	**23J**	ND	**590**	**210**	ND	ND	ND	**100**	ND	ND
	3/23/2009	14.80	**31**	**1300**	**33**	**3400**	**59**	**110**	ND	**730**	**540**	ND	**7.4J**	ND	**340**	ND	ND
	6/1/2009	14.54	**24**	**1100**	**30**	**4200**	**45**	**110**	**5.70**	**940**	**590**	3.0	2.0	1.80	**330**	2.70	2.0
	10/1/2009	14.25	**13**	**350**	**16**	**670**	**17**	**34**	ND	**130**	**110**	**7.0**	ND	ND	**120**	1.10	ND
	12/18/2009	14.55	**160**	**1700**	**120**	**7900**	**52**	**92**	**13J**	**1200**	**360**	**20J**	ND	ND	**300**	ND	ND
	3/23/2010	12.75	**23**	**970**	**18**	**2300**	**51**	**110**	4.8J	**450**	**470**	**5.0**	**6.7**	ND	**290**	1.6J	ND
	6/28/2010	13.37	**18**	**810**	**19**	**2100**	**42**	**83**	4.0J	**390**	**370**	**19**	**6.0**	ND	**280**	1.3J	ANR
	9/23/2010	13.34	**160**	**2200**	**190**	**9400**	**47**	**120**	ND	**1400**	**400**	**20**	**6.9J**	ND	**350**	ND	ANR
	12/2/2010	14.00	**15**	**770**	**15**	**950**	**47**	**110**	**3.4J**	**200**	**310**	**18**	**4.9J**	ND	**260**	**1.5J**	ND
	3/1/2011	13.98	**140**	**1700**	**190**	**7800**	**50**	**91**	ND	**1300**	**380**	**22J**	**7.3J**	ND	ANR	ND	ANR
	6/27/2011	13.82	**240**	**3400**	**220**	**14000**	**84**	**180**	**5.5J**	**2300**	**660**	ND	**8.9J**	ND	ANR	ND	ANR
	9/27/2011	12.41	**140**	**2200**	**170**	**9800**	**62**	**120**	ANR	**1700**	**500**	ND	**7.0J**	ND	ANR	ND	ANR
	12/8/2011	13.80	**150**	**2300**	**140**	**11000**	**53**	**100**	ANR	**1700**	**480**	**23J**	**8.6J**	ND	ANR	ND	ANR
	3/8/2012	14.30	**170**	**1600**	**110**	**7300**	**37**	**77**	3.8J	**1200**	**370**	ND	**5.7J**	ND	ANR	ND	ANR
	6/19/2012	14.03	**110**	**1300**	**81**	**4800**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	6/19/2012	13.64	**66**	**910**	**77**	**3100**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	12/20/2012	14.20	**57**	**680**	**73**	**2348**	**20**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ND
	3/13/2013	14.26	**76**	**840**	**110**	**3,400**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
	3/17/2015	12.92	**25.0**	**1,000**	**150**	**3,800**	**37**	**89**	ANR	**680**	**280**	**18**	4.6 J	ND	**300**	ND	ANR
	9/24/2015	13.63	**30.0**	**1,800**	**240**	**5,800**	**61**	**140**	ANR	**930**	**360**	**20**	ND	ND	**240**	ND	ANR

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit
2. ND - Indicates parameter Not Detected at laboratory method detection limit.
3. ANR - Analysis Not Run for parameter indicated
4. NM - Not Measured
5. **Indicates exceedance of the New York State Ambient Water Quality Standard or Guidance Value for Groundwater (GA)**
6. MW-5, MW-8 and MW-9 not sampled due to product in well
7. MW-3 not sampled due inaccessibility associated with ongoing construction activites.
8. MW-7 and RW-1 not sampled due to scheduling conflict with VEFR event.

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Jacques Whitford Company, Inc.

JACQUES WHITFORD LOCATION: ELMSFORD, NEW YORK					DRAWING TITLE: PCB EXCAVATION ROUND ENDPOINT SAMPLES SAMPLES COLLECTED 10/03/03 (10/17/03 & 10/21/03) THIRD AVENUE YARD, EMPLOYEE PARKING LOT 222 FIRST STREET BROOKLYN, NEW YORK
DATE PREPARED: 10-27-03	DESIGNED BY: CP	DRAWN BY: TS	CHECKED BY: BSB	REVIEWED BY: CP	
REVISION DATE:	REVISION NO:	DRAWN BY:	CHECKED BY:	REVIEWED BY:	
PROJECT NAME/FILE NAME: CONED/46/SITE		PROJECT NUMBER/PHASE: NYW03106/46	SCALE: 1"=10'	PREPARED FOR: CON EDISON	FIGURE NO. 3

Draft MG. / Oct 27/03

Table 1
Con Edison 3rd Avenue Employee Parking Lot
Brooklyn, NY

Soil Sampling Analytical Results
January 2006

Client ID: / Sample Depth: / Lab ID: / Date Sampled: / Matrix:	*NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives (ppm)*	MW-6 12.5'-13.0' 0601-00374-001 01/28/2006 Soil			RW-1 12.5'-13.0' 0601-00374-002 01/28/2006 Soil		
		Conc	Q	MDL	Conc	Q	MDL
Volatiles for Gasoline Contaminated Soils (ppm)							
Benzene	*0.06*	ND		1.1	ND		2.9
Ethylbenzene	*5.5*	ND		1.1	1.4	J	2.9
Toluene	*1.5*	ND		1.1	ND		14
Total Xylenes	*1.2*	ND		1.1	**1.9**	J	2.9
Isopropylbenzene	*2.3*	0.390	J	1.1	1.1	J	2.9
n-Propylbenzene	*3.7*	1.5		1.1	**5.3**	J	2.9
4-Isopropyltoluene (p-isopropyltoluene)	*10*	0.490	J	1.1	1.5	J	2.9
1,2,4 - Trimethylbenzene	*10*	ND		1.1	**21**		2.9
1,3,5 - Trimethylbenzene	*3.3*	0.270	J	1.1	1.4	J	2.9
n-Butyl-Benzene	*10*	1.8		1.1	3.5		2.9
sec-Butyl-Benzene	*10*	0.710	J	1.1	1.4	J	2.9
Tert-Butyl-Benzene	*10*	ANR		--	ANR		--
Napthalene	*13*	ND		1.1	3.9		2.9
Methyl-Tert-Butyl-Ether (MTBE)	*0.12*	ND		1.1	ND		2.9
TOTAL VO's:	*10*	5.16		--	42.4		--

Table 1 - Soil
Analytical Results

Con Edison 3rd Avenue
Employee Parking Lot
June 2007

Sample ID	New York TAGM	SB-2 15-16			SB-3 14-16			SB-4 14-16			SB-6 13-14			SB-7 13-14			SB-8 13-14			SB-9 13-14			MW-7 12-14			MW-8 12-14		
Lab Sample No.	Rec. Soil	0706-00083-001			0706-00083-002			0706-00083-003			0706-00158-001			0706-00158-002			0706-00158-003			0706-00158-004			0706-00178-002			0706-00178-003		
Sampling Date	Cleanup Objective	6/5/2007			6/5/2007			6/5/2007			6/14/2007			6/14/2007			6/14/2007			6/14/2007			6/16/2007			6/16/2007		
Matrix	Criteria	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
		CONC	Q	MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q	MDL	CONC	Q	MDL
VOLATILE COMPOUNDS																												
2-Butanone-(MEK)	**0.3**	ND		0.049	ND		5.3	ND		5.6	ND		1.6	ND		14	ND		15	ND		5.3	ND		2.7	ND		5.4
Acetone	**0.2**	**0.42**	B	0.049	**1.8**	J, B	5.3	ND		5.6	ND		1.6	ND		14	ND		15	ND		5.3	**2.5**	J	2.7	**3.7**	J	5.4
Carbon Disulfide	**2.7**	ND		0.01	ND		1.1	ND		1.1	ND		0.32	ND		2.8	ND		2.9	ND		1.1	ND		0.54	ND		1.1
Methylene Chloride	**0.1**	0.008	J	0.039	ND		4.2	0.28	J	45	ND		1.3	ND		11	ND		12	ND		4.3	ND		2.2	ND		4.3
Benzene	**0.06**	0.01	J	0.01	**1.6**		1.1	ND		1.1	0.091	J	0.32	**7.8**		2.8	**11**		2.9	ND		1.1	ND		0.54	**0.25**	J	1.1
Toluene	**1.5**	0.011		0.01	**54**		11	0.8	J	1.1	0.15	J	0.32	**130**		28	**220**		29	0.95	J	1.1	ND		0.54	**6.9**		1.1
Ethylbenzene	**5.5**	0.033		0.01	**94**		11	**30**		1.1	0.17	J	0.32	**200**		28	**310**		29	**28**		1.1	2.2		0.54	**14**		1.1
Isopropylbenzene	**2.3**	0.095		0.01	**15**		1.1	**6.3**		1.1	ND		0.32	**30**		2.8	**35**		2.9	**7**		1.1	0.76		0.54	1.9		1.1
n-Propylbenzene	**3.7**	0.2		0.01	**42**		11	**26**		1.1	ND		0.32	**91**		2.8	**110**		2.9	**23**		1.1	2.1		0.54	**6.5**		1.1
1,3,5-Trimethylbenzene	**3.3**	0.043		0.01	**88**		11	**64**		11	0.096	J	0.32	**180**		28	**260**		29	**23**		1.1	1.1		0.54	**14**		1.1
Tert-Butyl-benzene	**10**	0.006	J	0.01	ND		1.1	ND		1.1	ND		0.32	ND		2.8	ND		2.9	ND		1.1	ND		0.54	ND		1.1
1,2,4-Trimethylbenzene	**10**	0.15		0.01	**280**		11	**210**		11	0.25	J	0.32	**560**		28	**790**		29	**94**		5.3	**15**		0.54	**41**		1.1
sec-Butyl-benzene	**10**	0.071		0.01	7.2		1.1	3.5		1.1	ND		0.32	**14**		2.8	**15**		2.9	3.5		1.1	0.54	J	0.54	0.95	J	1.1
n-Butyl-benzene	**10**	0.079		0.01	**18**		1.1	9.2		1.1	ND		0.32	**33**		2.8	**38**		2.9	7.4		1.1	1.2		0.54	2.6		1.1
Naphthalene	**13**	0.27		0.01	**51**		11	**34**		1.1	12		0.32	**89**		2.8	**100**		2.9	**16**		1.1	3		0.54	9.2		1.1
MTBE	**0.12**	ND		0.01	ND		1.1	ND		1.1	ND		0.32	ND		2.8	ND		2.9	ND		1.1	ND		0.54	ND		1.1
4-Isopropyltoluene	**10**	ND		0.01	5.6		1.1	1.8		1.1	ND		0.32	**12**		2.8	**11**		2.9	2.8		1.1	0.75		0.54	0.79	J	1.1
4-Methyl-2-Pentanone (MIBK)	**1**	ND		0.049	ND		5.3	ND		5.6	ND		1.6	ND		14	ND		15	ND		5.3	ND		2.7	ND		5.4
Tetrachloroethylene	**1.4**	ND		0.01	ND		1.1	ND		1.1	ND		0.32	ND		2.8	ND		2.9	ND		1.1	ND		0.54	ND		1.1
Chlorobenzene	**1.7**	ND		0.01	ND		1.1	ND		1.1	ND		0.32	ND		2.8	ND		2.9	ND		1.1	ND		0.54	ND		1.1
Xylene (Total)	**1.2**	0.156		1.1	**530**		1.1	**206**		1.1	0.54		1.1	**1120**		83	**1730**		1.1	**64.2**		1.1	**6.89**		1.1	**80**		1.1

Notes:

BOLD - The compound was detected above the applicable standard

ND - The compound was not detected.

NR - Not analyzed

U- The compound was not detected at the indicated concentration.

J- Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.

B- The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the sample.

All compounds measured in parts per million (ppm)

NEW BUILDING

NORTH AREA

SG-2 ○ ▼ SB-6

SB-5 ●

SB-2 ●

RW-3 ⊕

RW-2 ⊕

MW-1 ⊕

RW-1 ⊕

SG-1 ○ ⊕ MW-9 ▼ ▼

MW-5 ⊕

SB-9 ●

MW-4 ⊕

SB-8

SB-3

MW-8 ⊕

MW-7 ⊕

MW-6 ⊕

1ST STREET

4TH AVENUE

NOTE: SB-1 WAS CONVERTED TO RW-3
SB-4 WAS CONVERTED TO RW-2
SB-7 WAS CONVERTED TO MW-9

LEGEND:

⊕ MONITORING WELL
● SOIL BORING
▼ SOIL BORING/ TEMPORARY WELL POINT
○ SOIL GAS SAMPLE (SHALLOW : DEEP LOCATION)

SCALE
0 10 20
(FEET)

CON EDISON 3RD AVENUE YARD
SERVICE CENTER
222 1ST STREET
BROOKYLN NEW YORK

DETAIL OF NEW
MONITORING WELL LOCATIONS

FIGURE	DRAWN TSC	CHKD. JJE
1	SCALE AS SHOWN	
	DATE 8/6/07	DATE 8/6/07

FIRST ENVIRONMENT
BOONTON NEW JERSEY

CONED007

Table 3
Summary of Endpoint Soil Sample PCB Results-TP15, East Wall
April 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-D-EW-140'S-4'D 03-03571-001 4/28/2003	TP15-D-EW-155'S-4'D 03-03571-002 4/28/2003	TP15-C-EW-140'+155'S-9'D 03-03571-003 4/28/2003	TP15-D-EW-170'S-4'D 03-03571-004 4/28/2003	TP15-D-EW-185'S-4'D 03-03571-005 4/28/2003	TP15-C-EW-170'+185'S-9'D 03-03571-006 4/28/2003
PCB Analysis by EPA 608/8082 ppb							
Aroclor 1016	10000	ND	ND	ND	ND	ND	ND
Aroclor 1221	10000	ND	ND	ND	ND	ND	ND
Aroclor 1232	10000	ND	ND	ND	ND	ND	ND
Aroclor 1242	10000	ND	ND	ND	ND	ND	ND
Aroclor 1248	10000	ND	ND	ND	ND	ND	ND
Aroclor 1254	10000	ND	ND	ND	ND	ND	ND
Aroclor 1260	10000	ND	108	17.7	221	104	97.5

Table 3A
Summary of Endpoint Soil Sample PCB Results-TP15, West and North Walls
April 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-D-WW-140'S-4'D 03-03571-007 4/28/2003	TP15-D-WW-155'S-4'D 03-03571-008 4/28/2003	TP-15-C-WW-140'+155'S-9'D 03-03571-009 4/28/2003	TP15-D-WW-170'S-4'D 03-03571-010 4/28/2003	TP15-D-WW-185'S-4'D 03-03571-011 4/28/2003	TP15-C-WW-170'+185'S-9'D 03-03571-012 4/28/2003	TRIP BLANK 03-03571-013 4/28/2003	TP15-NW-D-30'W-4'D 03-03571-014 4/29/2003	TP15-NW-C-20'+30'W-9'D 03-03571-015 4/29/2003	TP15-NW-D-20'W-4'D 03-03571-016 4/29/2003	TRIP BLANK 03-03571-017 4/29/2003
PCB Analysis by EPA 608/8082 ppb												
Aroclor 1016	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	10000	28.7	89.9	15.5	ND	ND	ND	ND	ND	ND	62.3	ND

Table 3B
Summary of Endpoint Soil Sample PCB Results-TP15, Bottom
May 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-B-D-140'S-20'W-12'D 03-03710-001 5/1/2003	TP15-B-D-140'S-20'W-12'D/MS 03-03710-002 5/1/2003	TP15-B-D-140'S-20'W-12'D/MSD 03-03710-003 5/1/2003	TP15-B-D-160'S-10'W-12'D 03-03710-004 5/1/2003	TP15-B-D-180'S-20'W-12'D 03-03710-005 5/1/2003	TP15-B-D-200'S-10'W-12'D 03-03710-006 5/1/2003	TP15-B-FD-205'S-15'W-12'D 03-03710-007 5/1/2003	TRIP BLANK 03-03710-008 5/1/2003
PCB Analysis by EPA 608/8082 ppb									
Aroclor 1016	10000	ND	291	227	ND	ND	ND	ND	ND
Aroclor 1221	10000	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	10000	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	10000	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	10000	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	10000	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	10000	ND	286	233	ND	ND	1580	**13100**	ND

Table 3C
Summary of Endpoint Soil Sample Results-TP15, East, West and South Walls
May 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-EW-D-215'S-4'D 03-03711-001 5/2/2003	TP15-EW-D-200'S-4'D 03-03711-002 5/2/2003	TP15-EW-C-200+215'S-9'D 03-03711-003 5/2/2003	TP15-WW-D-215'S-4'D 03-03711-004 5/2/2003	TP15-WW-D-200'S-4'D 03-03711-005 5/2/2003	TP15-WW-C-200+215'S-9'D 03-03711-006 5/2/2003	TP15-SW-D-215'S-30'W-4'D 03-03711-007 5/2/2003	TP15-SW-D-215'S-15'W-4'D 03-03711-008 5/2/2003	TP15-SW-C-215'S-15+30'W-9'D 03-03711-009 5/2/2003	TPIP BLANK 03-03711-010 5/2/2003	TP15-WW-C-198 & 217'S-9.5'D L2333 7/31/2003
PCB Analysis by EPA 608/8082 ppb												
Aroclor 1016	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Aroclor 1221	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Aroclor 1232	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Aroclor 1242	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Aroclor 1248	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Aroclor 1254	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Aroclor 1260	10000	80.5	366	**14100**	100	28.3	48.2	914	1030	1080	ND	NA

NOTES:
1. All concentrations reported in parts per billion (ppb) = micrograms per liter (ug/L) = micrograms per kilogram (ug/kg)
2. ND = Not detected above method detection limit (MDL)
3. NA = not analyzed

Table 4
Summary of Endpoint Soil Sample SVOC Results-TP15, East, West and North Wall
April 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-D-EW-140'S-4'D 03-03571-001 4/28/2003	TP15-D-EW-155'S-4'D 03-03571-002 4/28/2003	TP15-C-EW-140'+155'S-9'D 03-03571-003 4/28/2003	TP15-D-EW-170'S-4'D 03-03571-004 4/28/2003	TP15-D-EW-185'S-4'D 03-03571-005 4/28/2003	TP15-C-EW-170'+185'S-9'D 03-03571-006 4/28/2003	TP15-D-WW-140'S-4'D 03-03571-007 4/28/2003	TP15-D-WW-155'S-4'D 03-03571-008 4/28/2003	TP-15-C-WW-140'+155'S-9'D 03-03571-009 4/28/2003	TP15-D-WW-170'S-4'D 03-03571-010 4/28/2003	TP15-D-WW-185'S-4'D 03-03571-011 4/28/2003	TP15-C-WW-170'+185'S-9'D 03-03571-012 4/28/2003	TRIP BLANK 03-03571-013 4/28/2003	TP15-NW-D-30'W-4'D 03-03571-014 4/29/2003	TP15-NW-C-20'+30'W-9'D 03-03571-015 4/29/2003	TP15-NW-D-20'W-4'D 03-03571-016 4/29/2003	TRIP BLANK 03-03571-017 4/29/2003
Analysis by EPA 8270 ppb																		
Napthalene	13000	NA	NA	193	NA	NA	93.4	NA	NA	ND	NA	NA	33.1	ND	NA	131	NA	ND
Acenaphthene	90000	NA	NA	171	NA	NA	ND	NA	NA	ND	NA	NA	27.4	ND	NA	135	NA	ND
Fluorene	350000	NA	NA	263	NA	NA	34.3	NA	NA	ND	NA	NA	34.2	ND	NA	132	NA	ND
Phenanthrene	220000	NA	NA	1910	NA	NA	138	NA	NA	162	NA	NA	269	ND	NA	1250	NA	ND
Anthracene	700000	NA	NA	479	NA	NA	41.4	NA	NA	40.6	NA	NA	70.8	ND	NA	340	NA	ND
Fluoranthene	1900000	NA	NA	2520	NA	NA	298	NA	NA	282	NA	NA	485	ND	NA	1610	NA	ND
Pyrene	665000	NA	NA	2270	NA	NA	407	NA	NA	306	NA	NA	510	ND	NA	1650	NA	ND
Benzo (a) anthracene	3000	NA	NA	1200	NA	NA	158	NA	NA	175	NA	NA	242	ND	NA	882	NA	ND
Chrysene	400	NA	NA	**1160**	NA	NA	242	NA	NA	180	NA	NA	275	ND	NA	**908**	NA	ND
Benzo (b) fluoranthene	1100	NA	NA	737	NA	NA	142	NA	NA	97	NA	NA	213	ND	NA	623	NA	ND
Benzo (K) fluoranthene	1100	NA	NA	901	NA	NA	110	NA	NA	160	NA	NA	219	ND	NA	689	NA	ND
Benzo (a) pyrene	11000	NA	NA	1010	NA	NA	170	NA	NA	172	NA	NA	240	ND	NA	820	NA	ND
Indeno (1,2,3-cd) pyrene	3200	NA	NA	517	NA	NA	92.2	NA	NA	82.3	NA	NA	126	ND	NA	397	NA	ND
Dibenz (a,h) anthracene	165000000	NA	NA	187	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND	NA	123	NA	ND
Benzo (g,h,i) perylene	800000	NA	NA	511	NA	NA	106	NA	NA	90.2	NA	NA	147	ND	NA	410	NA	ND
Acenaphthylene	41000	NA	NA	70	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND	NA	ND	NA	ND

Table 4A
Summary of Endpoint Soil Sample SVOC Results-TP15, Bottom
May 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-B-D-140'S-20'W-12'D 03-03710-001 5/1/2003	TP15-B-D-140'S-20'W-12'D/MS 03-03710-002 5/1/2003	TP15-B-D-140'S-20'W-12'D/MSD 03-03710-003 5/1/2003	TP15-B-D-160'S-10'W-12'D 03-03710-004 5/1/2003	TP15-B-D-180'S-20'W-12'D 03-03710-005 5/1/2003	TP15-B-D-200'S-10'W-12'D 03-03710-006 5/1/2003	TP15-B-FD-205'S-15'W-12'D 03-03710-007 5/1/2003	TRIP BLANK 03-03710-008 5/1/2003
Analysis by EPA 8270 ppb									
Napthalene	13000	140	140	572	38.9	36.5	80.7	42.7	ND
Acenaphthene	90000	176	5210	5440	35.2	ND	30.4	ND	ND
Fluorene	350000	173	132	690	ND	ND	39.8	ND	ND
Phenanthrene	220000	1480	984	4400	71.6	47.9	297	173	ND
Anthracene	700000	326	228	1040	ND	ND	69	32.3	ND
Fluoranthene	1900000	1390	1030	3290	101	37.6	342	189	ND
Pyrene	665000	1500	6870	7740	122	43.3	313	211	ND
Benzo (a) anthracene	3000	622	468	1390	45.2	ND	160	98	ND
Chrysene	400	**653**	**485**	**1380**	51.5	ND	175	106	ND
Benzo (b) fluoranthene	1100	448	334	931	ND	ND	132	78.4	ND
Benzo (K) fluoranthene	1100	421	348	1000	ND	ND	129	77.3	ND
Benzo (a) pyrene	11000	536	411	1210	31.4	ND	144	86.5	ND
Indeno (1,2,3-cd) pyrene	3200	263	200	552	ND	ND	70.2	ND	ND
Dibenz (a,h) anthracene	165000000	104	82.8	229	ND	ND	ND	ND	ND
Benzo (g,h,i) perylene	800000	291	217	594	ND	ND	69	ND	ND
Acenaphthylene	41000	35	40.8	98	ND	ND	ND	ND	ND

Table 4B
Summary of Endpoint Soil Sample SVOC Results-TP15, East, West and South Walls
May 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-EW-D-215'S-4'D 03-03711-001 5/2/2003	TP15-EW-D-200'S-4'D 03-03711-002 5/2/2003	TP15-EW-C-200+215'S-9'D 03-03711-003 5/2/2003	TP15-WW-D-215'S-4'D 03-03711-004 5/2/2003	TP15-WW-D-200'S-4'D 03-03711-005 5/2/2003	TP15-WW-C-200+215'S-9'D 03-03711-006 5/2/2003	TP15-SW-D-215'S-30'W-4'D 03-03711-007 5/2/2003	TP15-SW-D-215'S-15'W-4'D 03-03711-008 5/2/2003	TP15-SW-C-215'S-15+30'W-9'D 03-03711-009 5/2/2003	TPIP BLANK 03-03711-010 5/2/2003	TP15-WW-C-198 & 217'S-9.5'D L2333 7/31/2003
Napthalene	13000	NA	NA	259	NA	NA	443	NA	NA	91.1	ND	NA
Acenaphthene	90000	NA	NA	333	NA	NA	635	NA	NA	38.7	ND	NA
Fluorene	350000	NA	NA	358	NA	NA	581	NA	NA	38.7	ND	NA
Phenanthrene	220000	NA	NA	2710	NA	NA	4320	NA	NA	380	ND	NA
Anthracene	700000	NA	NA	636	NA	NA	832	NA	NA	76.3	ND	NA
Fluoranthene	1900000	NA	NA	2260	NA	NA	4040	NA	NA	548	ND	NA
Pyrene	665000	NA	NA	2420	NA	NA	4460	NA	NA	614	ND	NA
Benzo (a) anthracene	3000	NA	NA	1150	NA	NA	2280	NA	NA	274	ND	NA
Chrysene	400	NA	NA	**1130**	NA	NA	**2370**	NA	NA	294	ND	191
Benzo (b) fluoranthene	1100	NA	NA	741	NA	NA	**1620**	NA	NA	230	ND	117
Benzo (K) fluoranthene	1100	NA	NA	889	NA	NA	**1810**	NA	NA	245	ND	155
Benzo (a) pyrene	11000	NA	NA	1010	NA	NA	2170	NA	NA	287	ND	NA
Indeno (1,2,3-cd) pyrene	3200	NA	NA	482	NA	NA	1020	NA	NA	150	ND	NA
Dibenz (a,h) anthracene	165000000	NA	NA	154	NA	NA	341	NA	NA	54.7	ND	NA
Benzo (g,h,i) perylene	800000	NA	NA	500	NA	NA	1100	NA	NA	174	ND	NA
Acenaphthylene	41000	NA	NA	70.8	NA	NA	35.6	NA	NA	ND	ND	NA

NOTES:
1. All concentrations reported in parts per billion (ppb) = micrograms per liter (ug/L) = micrograms per kilogram (ug/kg)
2. ND = Not detected above method detection limit (MDL)
3. NA = not analyzed

Table 5
Summary of Endpoint Soil Sample VOC Results-TP15, East, West and North Wall
April 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-D-EW-140'S-4'D 03-03571-001 4/28/2003	TP15-D-EW-155'S-4'D 03-03571-002 4/28/2003	TP15-C-EW-140'+155'S-9'D 03-03571-003 4/28/2003	TP15-D-EW-170'S-4'D 03-03571-004 4/28/2003	TP15-D-EW-185'S-4'D 03-03571-005 4/28/2003	TP15-C-EW-170'+185'S-9'D 03-03571-006 4/28/2003	TP15-D-WW-140'S-4'D 03-03571-007 4/28/2003	TP15-D-WW-155'S-4'D 03-03571-008 4/28/2003	TP-15-C-WW-140'+155'S-9'D 03-03571-009 4/28/2003	TP15-D-WW-170'S-4'D 03-03571-010 4/28/2003	TP15-D-WW-185'S-4'D 03-03571-011 4/28/2003	TP15-C-WW-170'+185'S-9'D 03-03571-012 4/28/2003	TRIP BLANK 03-03571-013 4/28/2003	TP15-NW-D-30'W-4'D 03-03571-014 4/29/2003	TP15-NW-C-20'+30'W-9'D 03-03571-015 4/29/2003	TP15-NW-D-20'W-4'D 03-03571-016 4/29/2003	TRIP BLANK 03-03571-017 4/29/2003
Analysis by EPA 8260 ppb																		
MTBE	120	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
Benzene	60	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
Toluene	1500	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
Ethyl-benzene	5500	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
m,p xylene	800	NA	36.8	NA	ND	NA	NA	ND	NA	NA	141	NA	NA	ND	NA	NA	ND	ND
o-xylene	400	NA	ND	NA	ND	NA	NA	ND	NA	NA	45	NA	NA	ND	NA	NA	ND	ND
Xylenes (Total)	1200	NA	36.8	NA	ND	NA	NA	ND	NA	NA	186	NA	NA	ND	NA	NA	ND	ND
Isopropyl-benzene	2300	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
n-Propylbenzene	3700	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
1,3,5-Trimethylbenzene	3300	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
tert-Butylbenzene	11000	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
1,2,4-Trimethylbenzene	13000	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
sec-Butylbenzene	11000	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
p-Isopropyltoluene	11000	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
n-Butylbenzene	12000	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND
Napthalene	13000	NA	102	NA	ND	NA	NA	ND	NA	NA	209	NA	NA	ND	NA	NA	ND	ND
Total Solids	% Solids	89.3	86.3	82.9	86.6	87.1	84.6	89.8	84.5	88.7	91	89.3	87.6	NA	90.4	84.6	89.8	NA

Table 5A
Summary of Endpoint Soil Sample VOC Results-TP15, Bottom
May 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-B-D-140'S-20'W-12'D 03-03710-001 5/1/2003	TP15-B-D-140'S-20'W-12'D/MS 03-03710-002 5/1/2003	TP15-B-D-140'S-20'W-12'D/MSD 03-03710-003 5/1/2003	TP15-B-D-160'S-10'W-12'D 03-03710-004 5/1/2003	TP15-B-D-180'S-20'W-12'D 03-03710-005 5/1/2003	TP15-B-D-200'S-10'W-12'D 03-03710-006 5/1/2003	TP15-B-FD-205'S-15'W-12'D 03-03710-007 5/1/2003	TRIP BLANK 03-03710-008 5/1/2003
Analysis by EPA 8260 ppb									
MTBE	120	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	60	ND	**2100**	**2390**	ND	ND	ND	ND	ND
Toluene	1500	ND	**1960**	**2190**	ND	ND	ND	ND	ND
Ethyl-benzene	5500	ND	ND	ND	ND	ND	ND	ND	ND
m,p xylene	800	ND	ND	ND	ND	ND	ND	ND	ND
o-xylenes	400	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	1200	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2300	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3700	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3300	ND	ND	ND	ND	ND	ND	ND	ND
tert-butlybenzene	11000	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	13000	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11000	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	11000	ND	ND	ND	ND	192	ND	ND	ND
n-Butylbenzene	12000	ND	ND	ND	ND	ND	ND	ND	ND
Napthalene	13000	ND	ND	ND	ND	ND	ND	ND	ND
Total Solids	% Solids	85.7	85.7	85.7	79.6	87.7	85.5	86.7	NA

Table 5B
Summary of Endpoint Soil Sample VOC Results-TP15, East, West and South Wall
May 2003
Con Edison - Third Avenue Yard -Employee Parking Lot

SAMPLE DESIGNATION LAB SEQUENCE NUMBER: Sampling Date:	TAGM RSCO CRITERIA ppb	TP15-EW-D-215'S-4'D 03-03711-001 5/2/2003	TP15-EW-D-200'S-4'D 03-03711-002 5/2/2003	TP15-EW-C-200+215'S-9'D 03-03711-003 5/2/2003	TP15-WW-D-215'S-4'D 03-03711-004 5/2/2003	TP15-WW-D-200'S-4'D 03-03711-005 5/2/2003	TP15-WW-C-200+215'S-9'D 03-03711-006 5/2/2003	TP15-SW-D-215'S-30'W-4'D 03-03711-007 5/2/2003	TP15-SW-D-215'S-15'W-4'D 03-03711-008 5/2/2003	TP15-SW-C-215'S-15+30'W-9'D 03-03711-009 5/2/2003	TPIP BLANK 03-03711-010 5/2/2003	TP15-WW-C-198 & 217'S-9.5'D L2333 7/31/2003
Analysis by EPA 8260 ppb												
MTBE	120	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA
Benzene	60	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA
Toluene	1500	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA
Ethyl-benzene	5500	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA
m,p xylene	800	ND	NA	NA	69.2	NA	NA	64.4	NA	NA	ND	NA
o-xylene	400	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA
Total Xylenes	1200	ND	NA	NA	69.2	NA	NA	ND	NA	NA	ND	NA
Isopropylbenzene	2300	ND	NA	NA	74.7	NA	NA	72.4	NA	NA	ND	NA
n-Propylbenzene	3700	ND	NA	NA	290	NA	NA	244	NA	NA	ND	NA
1,3,5-Trimethylbenzene	3300	ND	NA	NA	53.6	NA	NA	58.6	NA	NA	ND	NA
tert-butylbenzene	11000	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA
1,2,4-Trimethylbenzene	13000	ND	NA	NA	759	NA	NA	726	NA	NA	ND	NA
sec-Butylbenzene	11000	ND	NA	NA	133	NA	NA	127	NA	NA	ND	NA
p-Isopropyltoluene	11000	ND	NA	NA	45.8	NA	NA	71.6	NA	NA	ND	NA
n-Butylbenzene	12000	ND	NA	NA	112	NA	NA	87.2	NA	NA	ND	NA
Napthalene	13000	ND	NA	NA	69.9	NA	NA	54.5	NA	NA	ND	NA
Total Solids	% Solids	87.7	84.9	87.6	88.3	89.0	87.1	85.7	80.9	87.8	87.8	NA

NOTES:
1. All concentrations reported in parts per billion (ppb) = micrograms per liter (ug/L) = micrograms per kilogram (ug/kg)
2. ND = Not detected above method detection limit (MDL)
3. NA = not analyzed

TABLE 9
Summary of Endpoint Soil Sample Results - USTC I Excavation
December 9, 2002
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		USTC-I-WEG 7'	USTC-I-BG 10'	USTC-I-WWG 7'	USTC-I-WNG 6'	USTC-I-WSG 5'	USTC-I-WEC 6'-7'	USTC-I-BC 10'	USTC-I-WWC 6'-7'	USTC-I-WNC 6'-8'	USTC-I-WSC 5'-8'
Laboratory ID:	RSCO		M5380-1	M5380-2	M5380-3	M5380-4	M5380-5	M5380-6	M5380-7	M5380-8	M5380-9	M5380-10
Sampling Date:	Criteria		12/09/2002	12/09/2002	12/09/2002	12/09/2002	12/09/2002	12/09/2002	12/09/2002	12/09/2002	12/09/2002	12/09/2002
Analyte:		Units:										
PCB 1016	10000	ppb	NR	NR	NR	NR	NR	NR	7.84 U	NR	NR	NR
PCB 1221	10000	ppb	NR	NR	NR	NR	NR	NR	9.55 U	NR	NR	NR
PCB 1232	10000	ppb	NR	NR	NR	NR	NR	NR	6.82 U	NR	NR	NR
PCB 1242	10000	ppb	NR	NR	NR	NR	NR	NR	8.53 U	NR	NR	NR
PCB 1248	10000	ppb	NR	NR	NR	NR	NR	NR	10.6 U	NR	NR	NR
PCB 1254	10000	ppb	NR	NR	NR	NR	NR	NR	6.37 U	NR	NR	NR
PCB 1260	10000	ppb	NR	NR	NR	NR	NR	NR	6.42 U	NR	NR	NR
Naphthalene	13000	ppb	NR	NR	NR	NR	NR	22.0 U	5280	20.4 U	175	158
Acenaphthene	90000	ppb	NR	NR	NR	NR	NR	26.7 U	92.0	24.7 U	156	68.9
Fluorene	350000	ppb	NR	NR	NR	NR	NR	32.4 U	99.1	30.1 U	178	68.9
Phenanthrene	220000	ppb	NR	NR	NR	NR	NR	85.7	804	153	1160	635
Anthracene	700000	ppb	NR	NR	NR	NR	NR	22.0 U	170	20.4 U	271	144
Fluoranthene	1900000	ppb	NR	NR	NR	NR	NR	125	698	171	1080	661
Pyrene	665000	ppb	NR	NR	NR	NR	NR	115	592	150	928	871
Benzo(a)anthracene	3000	ppb	NR	NR	NR	NR	NR	85.7	292	22.6 U	479	379
Chrysene	400	ppb	NR	NR	NR	NR	NR	86.9	296	24.7 U	**450**	399
Benzo(b)fluoranthene	1100	ppb	NR	NR	NR	NR	NR	13.9 U	189	12.9 U	329	273
Benzo(k)fluoranthene	1100	ppb	NR	NR	NR	NR	NR	18.5 U	204	17.2 U	381	314
Benzo(a)pyrene	11000	ppb	NR	NR	NR	NR	NR	19.7 U	231	18.3 U	447	339
Indeno(1,2,3-cd)pyrene	3200	ppb	NR	NR	NR	NR	NR	40.6 U	101	37.6 U	198	212
Dibenzo(a,h)anthracene	165000000	ppb	NR	NR	NR	NR	NR	17.4 U	22.4 U	16.1 U	17.4 U	16.9 U
Benzo(g,h,i)perylene	800000	ppb	NR	NR	NR	NR	NR	13.9 U	117	12.9 U	247	354
Acenaphthylene	41000	ppb	NR	NR	NR	NR	NR	20.9 U	25.9 U	19.3 U	20.8 U	122
MTBE	120	ppb	15.3 U	15.7 U	13.8 U	15.1 U	15.1 U	NR	NR	NR	NR	NR
Benzene	60	ppb	10.5 U	**152**	9.52 U	20.8	10.4 U	NR	NR	NR	NR	NR
Toluene	1500	ppb	9.99 U	32.4	9.04 U	9.88 U	9.88 U	NR	NR	NR	NR	NR
Ethylbenzene	5500	ppb	13.9 U	14.3 U	12.6 U	13.8 U	13.8 U	NR	NR	NR	NR	NR
m,p-xylene	800	ppb	25.3	69.9	18.1 U	19.8 U	19.8 U	NR	NR	NR	NR	NR
o-xylene	400	ppb	8.68 U	8.91 U	7.85 U	8.58 U	8.58 U	NR	NR	NR	NR	NR
Xylenes(Total)	1200	ppb	25.3	69.9	17.1 U	18.7 U	18.7 U	NR	NR	NR	NR	NR
Isopropylbenzene	2300	ppb	11.3 U	41.0	10.2 U	11.2 U	11.2 U	NR	NR	NR	NR	NR
n-Propylbenzene	3700	ppb	16.3 U	16.7 U	14.8 U	16.1 U	16.1 U	NR	NR	NR	NR	NR
1,3,5-Trimethylbenzene	3300	ppb	15.0 U	33.2	13.6 U	14.8 U	14.8 U	NR	NR	NR	NR	NR
tert-Butylbenzene	11000	ppb	14.5 U	14.9 U	13.1 U	14.3 U	14.3 U	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	13000	ppb	15.8 U	27.0	14.3 U	15.6 U	15.6 U	NR	NR	NR	NR	NR
sec-Butylbenzene	11000	ppb	16.0 U	16.5 U	14.5 U	15.9 U	15.9 U	NR	NR	NR	NR	NR
p-Isopropyltoluene	11000	ppb	17.6 U	18.1 U	15.9 U	17.4 U	147	NR	NR	NR	NR	NR
n-Butylbenzene	12000	ppb	19.2 U	19.7 U	17.4 U	19.0 U	19.0 U	NR	NR	NR	NR	NR
Naphthalene	13000	ppb	24.7 U	25.4 U	22.4 U	24.4 U	24.4 U	NR	NR	NR	NR	NR
Antimony		ppm	NR	NR	NR	NR	NR	2.22	4.56	1.19	2.05	1.24
Arsenic	8	ppm	NR	NR	NR	NR	NR	0.39 U	3.02	0.36 U	3.65	0.38 U
Barium	300	ppm	NR	NR	NR	NR	NR	56.2	182	32.4	107	59.7
Beryllium	0.16	ppm	NR	NR	NR	NR	NR	**0.66**	**0.35**	**0.45**	**0.48**	**0.35**
Cadmium	1	ppm	NR	NR	NR	NR	NR	**1.58**	**25.2**	**1.05**	**1.23**	**1.07**
Chromium	10	ppm	NR	NR	NR	NR	NR	**19.5**	**10.1**	**11.9**	**11.2**	**19.9**
Cobalt	30	ppm	NR	NR	NR	NR	NR	6.62	4.82	5.98	6.35	6.58
Copper	25	ppm	NR	NR	NR	NR	NR	20.3	**11400**	18.1	**47.1**	20.0
Lead	200-500	ppm	NR	NR	NR	NR	NR	75.7	***573***	22.9	**219**	184
Nickel	13	ppm	NR	NR	NR	NR	NR	**21.5**	**16.0**	**26.3**	**32.0**	**27.1**
Selenium	2	ppm	NR	NR	NR	NR	NR	1.44	1.28	0.95	1.75	0.97
Silver		ppm	NR	NR	NR	NR	NR	0.12 U	9.32	0.11 U	0.11 U	0.11 U
Thallium		ppm	NR	NR	NR	NR	NR	0.23 U	0.23 U	0.21 U	0.23 U	0.22 U
Vanadium	150	ppm	NR	NR	NR	NR	NR	32.0	17.7	19.7	28.3	19.5
Zinc	20	ppm	NR	NR	NR	NR	NR	**60.9**	**9410**	**41.2**	**155**	**64.3**
Tin		ppm	NR	NR	NR	NR	NR	2.56	61.4	1.48	7.99	13.9
Mercury	0.1	ppm	NR	NR	NR	NR	NR	0.034	**3.20**	0.070	**0.60**	**0.67**

TABLE 10
Summary of Endpoint Soil Sample PCB Results - South Excavation, South Wallt
January 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-SW-D-12E-4D	SA-SW-D-12E-4D	SA-SW-D-12E-4D	SA-SW-C-12+22-8D	SA-SW-C-12+22-8D	SA-SW-C-12+22-8D	SA-SW-D-35E-4D	SA-SW-C-35+45E-8.5D	SA-SW-D-22E-4D	SA-SW-D-22E-4D MS	SA-SW-D-22E-4D MSD	SA-SW-D-45E-4D	SA-SW-D-60W-5D	SA-SW-C-50+60W-8+95D
Laboratory ID:	RSCO		K2458-7	K2458-7M	K2458-7N	K2458-9	K2458-9M	K2458-9N	N1631-1	N1631-3	N3468-3	N3468-3M	N3468-3N	N3468-4	N3458-5	N3458-8
Sampling Date:	Criteria		01/14/2003	01/14/2003	01/14/2003	01/14/2003	01/14/2003	01/14/2003	01/14/2003	01/14/2003	01/15/2003	01/15/2003	01/15/2003	01/15/2003	01/24/2003	01/24/2003
Analyte:		Units:														
PCB 1016	10000	ppb	2.32 U	212	216	2.35 U	236	224	2.67 U	2.28 U	2.40 U	191	216	2.35 U	2.34 U	2.31 U
PCB 1221	10000	ppb	10.9 U	10.9 U	10.9 U	11.1 U	11.1 U	11.1 U	12.5 U	10.8 U	11.3 U	11.3 U	11.3 U	11.1 U	11.0 U	10.9 U
PCB 1232	10000	ppb	2.43 U	2.43 U	2.43 U	2.45 U	2.45 U	2.45 U	2.78 U	2.39 U	2.51 U	2.51 U	2.51 U	2.45 U	2.44 U	2.41 U
PCB 1242	10000	ppb	1.82 U	1.82 U	1.82 U	1.84 U	1.84 U	1.84 U	2.09 U	1.79 U	1.88 U	1.88 U	1.88 U	1.84 U	1.83 U	1.81 U
PCB 1248	10000	ppb	4.10 U	4.10 U	4.10 U	4.15 U	4.15 U	4.15 U	4.71 U	4.03 U	4.24 U	4.24 U	4.24 U	4.15 U	4.12 U	4.07 U
PCB 1254	10000	ppb	6.21 U	6.21 U	6.21 U	6.28 U	6.28 U	6.28 U	7.12 U	6.10 U	6.41 U	6.41 U	6.41 U	6.28 U	6.24 U	6.17 U
PCB 1260	10000	ppb	63.3	248	230	34.9	244	222	667	12.6	7.36 U	242	212	7.21 U	81.0	7.08 U

TABLE 10A
Summary of Endpoint Soil Sample PCB Results - South Excavation, East Wall
January & February 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-EW-D-8N-4D	SA-FD(14-19)5D	SA-EW-D-20'N-4'D	SA-FD-(14-19)-5	SA-EW-C-20+8N-9'D	SA-FD-(14-19)-9	SA-EW-D-35'N-4'D	SA-EW-D-42N-4D	SA-EW-C-35+42N-8'D	SA-EW-D-55'N-4'D	SA-EW-D-70'N-4'D	SA-EW-C-55+70'N-10'D	SA-EW-D-80'N-4'D	SA-EW-D-93'N-4'D	SA-EW-C-80+93'N-9'D
Laboratory ID:	RSCO		N3468-2	N3468-5	K2458-4	N1631-7	K2458-6	N1631-9	K2458-9	N3468-1	K2458-3	M7396-1	M7396-3	M7396-5	M5368-11	M5368-10	M5368-12
Sampling Date:	Criteria		01/15/2003	01/15/2003	01/14/2003	01/14/2003	01/14/2003	01/14/2003	01/14/2003	01/15/2003	01/14/2003	02/05/2003	02/05/2004	02/05/2004	02/12/2005	02/12/2003	02/12/2003
Analyte:		Units:															
PCB 1016	10000	ppb	2.41 U	2.34 U	2.39 U	2.42 U	2.36 U	2.37 U	2.33 U	2.43 U	2.35 U	2.33 U	2.31 U	2.33 U	2.29 U	2.31 U	2.27 U
PCB 1221	10000	ppb	11.4 U	11.0 U	11.2 U	11.4 U	11.1 U	11.1 U	11.1 U	11.4 U	11.1 U	10.10 U	10.9 U	10.11 U	10.9 U	10.9 U	10.7 U
PCB 1232	10000	ppb	2.52 U	2.45 U	2.49 U	2.53 U	2.47 U	2.47 U	2.41 U	2.54 U	2.45 U	2.43 U	2.41 U	2.43 U	2.39 U	2.41 U	2.37 U
PCB 1242	10000	ppb	1.89 U	1.84 U	1.87 U	1.90 U	1.85 U	1.86 U	1.82 U	1.90 U	1.84 U	1.83 U	1.81 U	1.83 U	1.80 U	1.81 U	1.78 U
PCB 1248	10000	ppb	4.26 U	4.13 U	4.22 U	4.27 U	4.17 U	4.18 U	4.11 U	4.29 U	4.15 U	4.10 U	4.06 U	4.10 U	4.02 U	4.07 U	4.00 U
PCB 1254	10000	ppb	6.45 U	6.26 U	6.38 U	6.47 U	6.32 U	6.32 U	6.20 U	6.49 U	6.28 U	6.20 U	6.15 U	6.20 U	6.08 U	6.17 U	6.06 U
PCB 1260	10000	ppb	7.41 U	7.19 U	59.5	7.43 U	51.3	7.26 U	77.6	7.45 U	152	7.12 U	7.06 U	7.12 U	201	254	73.2

TABLE 10B
Summary of Endpoint Soil Sample PCB Results - South Excavation, North Wall
January & February 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-NW-C-80N-30+37W-6D	SA-NW-D-63'W-4'D	SA-NW-D-54'W-3'D	SA-NW-C-54+63'W-8'D	SA-NW-D-24'W-4'D	SA-NW-D-10'W-4'D	SA-NW-C-10+24'W-9'D
Laboratory ID:	RSCO		N1632-5	N3454-6	N3454-7	N3454-9	M5368-5	M5368-6	M5368-8
Sampling Date:	Criteria		01/17/2003	01/30/2003	01/30/2003	01/30/2003	02/12/2003	02/12/2003	02/12/2003
Analyte:		Units:							
PCB 1016	10000	ppb	2.31 U	2.39 U	2.27 U	2.30 U	2.30 U	2.26 U	2.24 U
PCB 1221	10000	ppb	10.9 U	11.2 U	10.7 U	10.8 U	10.8 U	10.6 U	10.5 U
PCB 1232	10000	ppb	2.41 U	2.49 U	2.37 U	2.40 U	2.40 U	2.36 U	2.34 U
PCB 1242	10000	ppb	1.81 U	1.87 U	1.78 U	1.80 U	1.80 U	1.77 U	1.76 U
PCB 1248	10000	ppb	4.08 U	4.22 U	4.00 U	4.06 U	4.05 U	3.98 U	3.96 U
PCB 1254	10000	ppb	6.17 U	6.38 U	6.06 U	6.14 U	6.14 U	6.03 U	5.99 U
PCB 1260	10000	ppb	**82400**	86.1	6.96 U	118	**1140000** *	1020	**69500** *

Notes:
* = Not a true endpoint sample because additional soil was removed in accordance to the Supplemental PCB Remediation plan
**= Not a true endpoint sample because area was further excavated and resampled on 3/36/03 .

TABLE 10C
Summary of Endpoint Soil Sample PCB Results - South Excavation, West Wall
January & February 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-WW-D-29'N-4'D	SA-WW-D-29'N-4'D MS	SA-WW-D-29'N-4'D MSD	SA-WW-DL-16'N-4'D	SA-WW-C-16N+29N-8'D	SA-WW-C-16N+29N-8'D MS	SA-WW-C-16N+29N-8'D MSD	SA-WW-D-55'N-3'D	SA-WW-D-45'N-3'D	SA-WW-C-45+55'N-8'D	SA-WW-C-25'W-60+75'N-8'D	SA-WW-D-25'W-87'N-4'D	SA-WW-D-25'W-92'N-4'D	SA-WW-C-25'W-87+92'N-9'D
Laboratory ID:	RSCO		N3458-1	N3458-1M	N3458-1N	N3458-2	N3458-4	N3458-4M	N3458-4N	N3454-2	N3454-3	N3454-5	M7396-5	M5368-1	M5368-2	M5368-4
Sampling Date:	Criteria		01/24/2003	01/24/2003	01/24/2003	01/24/2003	01/24/2003	01/24/2003	01/24/2003	01/30/2003	01/30/2003	01/30/2003	02/05/2003	02/12/2003	02/12/2003	02/12/2003
Analyte:		Units:														
PCB 1016	10000	ppb	2.28 U	230	242	2.28 U	2.33 U	240	213	2.31 U	2.36 U	2.26 U	2.32 U	2.27 U	2.29 U	2.27
PCB 1221	10000	ppb	10.7 U	10.7 U	10.7 U	10.7 U	10.9 U	10.9 U	10.9 U	10.9 U	11.1 U	10.6 U	10.9 U	10.7 U	10.8 U	10.7
PCB 1232	10000	ppb	2.38 U	2.38 U	2.38 U	2.38 U	2.43 U	2.43 U	2.43 U	2.41 U	2.47 U	2.36 U	2.42 U	2.37 U	2.39 U	2.37
PCB 1242	10000	ppb	1.79 U	1.79 U	1.79 U	1.79 U	1.82 U	1.82 U	1.82 U	1.81 U	1.85 U	1.77 U	1.82 U	1.78 U	1.80 U	1.78
PCB 1248	10000	ppb	4.03 U	4.03 U	4.03 U	4.03 U	4.10 U	4.10 U	4.10 U	4.07 U	4.17 U	3.98 U	4.09 U	4.01 U	4.04 U	4.00 U
PCB 1254	10000	ppb	6.10 U	6.10 U	6.10 U	6.10 U	6.21 U	6.21 U	6.21 U	6.17 U	6.32 U	6.03 U	6.19 U	6.07 U	6.12 U	6.06 U
PCB 1260	10000	ppb	167	401	450	64.9	281	446	245	379	7.25 U	171	1060	**65700** *	2980	**143000** *

TABLE 10D
Summary of Endpoint Soil Samples PCB Results - South Excavation, Bottom
January, February & March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-B-D-10N-10W-10D	SA-B-D-20N-15W-10.5D	SA-B-D-20N-35W-11D	SA-B-D-15W-55N-8N	SA-B-D-40N-15W-9.5D	SA-B-D-40N-30W-9.5D	SA-B-FD-45N-20W-9.5D	SA-B-D-55'W-28'N-9'D	SA-B-D-50N-53'W-8.5D	SA-B-D-72'N-15'W-11'D	SA-B-D-14'W-88'N-11.5'D	SA-B-55'N-15'W-14'D
Laboratory ID:	RSCO		N1631-4	N1631-5	N1631-6	N1632-6	N3457-1	N3457-2	N3457-3	N3458-9	N3454-1	M7396-6	M5368-13	J6944-8
Sampling Date:	Criteria		01/14/2003	01/14/2003	01/14/2003	01/17/2003	01/22/2003	01/22/2003	01/22/2003	01/24/2003	01/30/2003	02/05/2003	02/12/2003	3/26/03
Analyte:		Units:												
PCB 1016	10000	ppb	2.39 U	2.50 U	2.31 U	2.36 U	2.36 U	2.43 U	2.37 U	2.29 U	2.35 U	2.31 U	7.7 U	7.81 U
PCB 1221	10000	ppb	11.2 U	11.8 U	10.8 U	11.1 U	11.1 U	11.5 U	11.2 U	10.8 U	11.0 U	10.8 U	9.4 U	9.51 U
PCB 1232	10000	ppb	2.49 U	2.61 U	2.41 U	2.47 U	2.46 U	2.54 U	2.48 U	2.39 U	2.45 U	2.41 U	6.78 U	6.78 U
PCB 1242	10000	ppb	1.87 U	1.96 U	1.81 U	1.85 U	1.85 U	1.91 U	1.86 U	1.80 U	1.84 U	1.81 U	8.4 U	8.49 U
PCB 1248	10000	ppb	4.22 U	4.41 U	4.07 U	4.17 U	4.16 U	4.30 U	4.19 U	4.04 U	4.14 U	4.07 U	10.0 U	10.6 U
PCB 1254	10000	ppb	6.38 U	6.67 U	6.16 U	6.32 U	6.30 U	6.50 U	6.34 U	6.12 U	6.27 U	6.16 U	6.3 U	6.34 U
PCB 1260	10000	ppb	88.7	34.3	84.9	**43100** **	7.24 U	1630	17.8	7.03 U	7.20 U	7.07 U	39.0	41.1

Notes:
* = Not a true endpoint sample because additional soil was removed in accordance to the Supplemental PCB Remediation plan
**= Not a true endpoint sample because area was further excavated and resampled on 3/36/03 .

TABLE 11
Summary of Endpoint Soil Sample SVOC Results - South Excavation, South Wall
January 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-SW-C-12+22-8D	SA-SW-C-12+22-8D	SA-SW-C-12+22-8D	SA-SW-C-35+45E-8.5D	SA-SW-C-50+60W-8+95D
Laboratory ID:	RSCO		K2458-9	K2458-9M	K2458-9N	N1631-3	N3458-8
Sampling Date:	Criteria		01/14/2003	01/14/2003	01/14/2003	01/14/2003	01/24/2003
Analyte:		Units:					
Naphthalene	13000	ppb	126	109	99.1	24.6 U	212
Acenaphthene	90000	ppb	440	5070	5050	69.4	385
Fluorene	350000	ppb	96.8	129	109	72.8	404
Phenanthrene	220000	ppb	377	559	363	113	962
Anthracene	700000	ppb	80.6	135	92.2	16.8 U	251
Fluoranthene	1900000	ppb	358	567	362	172	666
Pyrene	665000	ppb	297	5240	5220	159	550
Benzo(a)anthracene	3000	ppb	166	240	161	17.9 U	245
Chrysene	400	ppb	197	259	192	14.6 U	240
Benzo(b)fluoranthene	1100	ppb	147	175	131	47.0 U	158
Benzo(k)fluoranthene	1100	ppb	156	181	145	50.4 U	167
Benzo(a)pyrene	11000	ppb	158	215	147	25.8 U	189
Indeno(1,2,3-cd)pyrene	3200	ppb	77.2	40.3 U	74.9	23.5 U	23.8 U
Dibenzo(a,h)anthracene	165000000	ppb	17.3 U	17.3 U	17.3 U	21.3 U	21.5 U
Benzo(g,h,i)perylene	800000	ppb	13.8 U	13.8 U	13.8 U	25.8 U	26.0 U
Acenaphthylene	41000	ppb	20.7 U	20.7 U	20.7 U	24.6 U	23.8 J

TABLE 11A
Summary of Endpoint Soil Sample SVOC Results - South Excavation, East Wall
January & February 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-EW-C-20+8N-9'D	SA-FD-(14-19)-9	SA-EW-C-35+42N-8'D	SA-EW-C-55+70'N-	SA-EW-C-80+93'N-9'D
Laboratory ID:	RSCO		K2458-6	N1631-9	K2458-3	M7396-4	M5368-12
Sampling Date:	Criteria		01/14/2003	01/14/2003	01/14/2003	02/05/2003	02/12/2003
Analyte:		Units:					
Naphthalene	13000	ppb	443	350	21.9 U	107	25.6
Acenaphthene	90000	ppb	56.8	32.5	283	48.8	30.0 U
Fluorene	350000	ppb	31.3	29.0 U	329	34.0	32.3 U
Phenanthrene	220000	ppb	236	148	933	201	38.9
Anthracene	700000	ppb	22.0	17.4 U	222	43.1	35.6 U
Fluoranthene	1900000	ppb	227	182	940	229	55.6
Pyrene	665000	ppb	204	142	786	214	43.4
Benzo(a)anthracene	3000	ppb	89.2	75.4	332	109	26.7 U
Chrysene	400	ppb	114	87.0	380	112	22.2 U
Benzo(b)fluoranthene	1100	ppb	13.9	68.4	235	87.3	42.3 U
Benzo(k)fluoranthene	1100	ppb	18.5	85.8	264	78.2	31.1 U
Benzo(a)pyrene	11000	ppb	19.7	26.7 U	259	94.1	25.6 U
Indeno(1,2,3-cd)pyrene	3200	ppb	40.6	24.4 U	128	23.8 U	37.8 U
Dibenzo(a,h)anthracene	165000000	ppb	17.4	22.0 U	17.3 U	21.5 U	36.7 U
Benzo(g,h,i)perylene	800000	ppb	13.9	26.7 U	119	26.1 U	27.8 U
Acenaphthylene	41000	ppb	20.9	25.5 U	24.2	24.9 U	35.6 U

TABLE 11B
Summary of Endpoint Soil Sample SVOC Results - South Excavation, North Wall
January & February 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID: / Laboratory ID: / Sampling Date: / Analyte:	TAGM RSCO Criteria	Units:	SA-NW-C-54+63'W-8'D N3454-9 01/30/2003	SA-NW-C-10+24'W-9'D M5368-8 02/12/2003
Naphthalene	13000	ppb	90.2	34.1
Acenaphthene	90000	ppb	27.1	29.7 U
Fluorene	350000	ppb	40.6	31.9 U
Phenanthrene	220000	ppb	582	82.4
Anthracene	700000	ppb	129	35.2 U
Fluoranthene	1900000	ppb	2230	91.2
Pyrene	665000	ppb	1830	80.2
Benzo(a)anthracene	3000	ppb	1200	47.3
Chrysene	400	ppb	**1280**	60.4
Benzo(b)fluoranthene	1100	ppb	851	35.2 J
Benzo(k)fluoranthene	1100	ppb	973	34.1
Benzo(a)pyrene	11000	ppb	1070	25.3 U
Indeno(1,2,3-cd)pyrene	3200	ppb	610	37.4 U
Dibenzo(a,h)anthracene	165000000	ppb	223	36.3 U
Benzo(g,h,i)perylene	800000	ppb	649	27.5 U
Acenaphthylene	41000	ppb	53.0	35.2 U

TABLE 11C
Summary of Endpoint Soil Sample SVOC Results - South Excavation, West Wall
January & February 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID: / Laboratory ID: / Sampling Date: / Analyte:	TAGM RSCO Criteria	Units:	SA-WW-C-16N+29N-8'D N3458-4 01/24/2003	SA-WW-C-16N+29N-8'D MS N3458-4M 01/24/2003	SA-WW-C-16N+29N-8'D MSD N3458-4N 01/24/2003	SA-WW-C-45+55'N-8'D N3454-5 01/30/2003	SA-WW-C-25'W-60+75'N-8'D M7396-5 02/05/2003	SA-WW-C-25'W 87+92'N-9'D M5368-4 02/12/2003
Naphthalene	13000	ppb	2800	1690	3220	202	540	100 U
Acenaphthene	90000	ppb	749	2660	5610	262	203	30.0 U
Fluorene	350000	ppb	774	473	1110	317	186	32.3 U
Phenanthrene	220000	ppb	4660	3330	6560	2420	923	136
Anthracene	700000	ppb	1080	667	1420	488	235	36.7
Fluoranthene	1900000	ppb	5790	4090	8140	2940	883	228 U
Pyrene	665000	ppb	5060	5610	11000	2540	767	212 U
Benzo(a)anthracene	3000	ppb	2360	1660	**3340**	1170	350	132
Chrysene	400	ppb	**2680**	**1920**	**3730**	**1340**	366	145
Benzo(b)fluoranthene	1100	ppb	**1680**	**1290**	**2440**	868	248	97.9
Benzo(k)fluoranthene	1100	ppb	**1840**	**1390**	**2580**	877	212	113
Benzo(a)pyrene	11000	ppb	2330	1740	3320	1130	286	125
Indeno(1,2,3-cd)pyrene	3200	ppb	1260	974	1750	590	119	65.6
Dibenzo(a,h)anthracene	165000000	ppb	389	253	483	226	21.6 U	36.7
Benzo(g,h,i)perylene	800000	ppb	1500	1100	2010	669	124	70.1
Acenaphthylene	41000	ppb	145	145	210	33.2	25.0 U	35.6

TABLE 11D
Summary of Endpoint Soil Sample SVOC Results - South Excavation, Bottom
January, February & March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID: / Laboratory ID: / Sampling Date: / Analyte:	TAGM RSCO Criteria	Units:	SA-B-D-10N-10W-10D N1631-4 01/14/2003	SA-B-D-20N-15W-10.5D N1631-5 01/14/2003	SA-B-D-20N-35W-11D N1631-6 01/14/2003	SA-B-D-15W 55N-8N N1632-6 01/17/2003	SA-B-D-40N-15W-9.5D N3457-1 01/22/2003	SA-B-D-40N-30W-9.5D N3457-2 01/22/2003	SA-B-FD-45N-20W-9.5D N3457-3 01/22/2003	SA-B-D-55'W-28'N-9'D N3458-9 01/24/2003	SA-B-D-50N-53'W-8.5D N3454-1 01/30/2003	SA-B-D-72'N-15'W-11'D M7396-6 02/05/2003	SA-B-40'N-15'W-14'D J6944-9 3/26/03
Naphthalene	13000	ppb	101	163	786	38.2	9400	486	10400	4350	166	4020	686
Acenaphthene	90000	ppb	86.7	155	676	44.0	87.9	402	133	884	181	745	515
Fluorene	350000	ppb	30.4	286	447	44.0	169	75.2	225	190	70.2	556	328
Phenanthrene	220000	ppb	162	2520	1300	317	771	511	922	300	106	2770	569
Anthracene	700000	ppb	62.1	584	215	69.5	210	124	256	65.2	21.9 U	841	85
Fluoranthene	1900000	ppb	536	2850	977	345	579	586	685	218	63.3	2060	275
Pyrene	665000	ppb	595	2330	823	315	430	452	534	201	52.9	1700	249
Benzo(a)anthracene	3000	ppb	342	1100	364	171	205	234	261	109	24.2 U	977	116
Chrysene	400	ppb	327	**1120**	364	195	197	240	248	110	26.5 U	**905**	120
Benzo(b)fluoranthene	1100	ppb	199	789	282	111	119	152	161	75.3	13.8 U	479	94.3
Benzo(k)fluoranthene	1100	ppb	253	834	272	169	146	174	199	85.4	18.4 U	659	82.7
Benzo(a)pyrene	11000	ppb	319	895	328	173	153	202	211	80.9	19.6 U	687	96.6
Indeno(1,2,3-cd)pyrene	3200	ppb	125	411	151	126	84.4	100	114	23.6 U	40.3 U	270	39.6 U
Dibenzo(a,h)anthracene	165000000	ppb	22.2 U	23.3 U	21.5 U	38.2 U	17.3 U	17.9 U	17.5 U	21.3 U	17.3 U	130	38.4 U
Benzo(g,h,i)perylene	800000	ppb	138	395	174	145	90.2	110	118	25.8 U	13.8 U	263	29.1 U
Acenaphthylene	41000	ppb	25.8 U	109	28.2	37.1 U	48.6	21.5 U	65.2	24.7 U	20.7 U	24.9 U	37.3 U

TABLE 12
Summary of Endpoint Soil Sample VOC Results - South Excavation, South Wall
January 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID: / Laboratory ID: / Sampling Date: / Analyte:	TAGM RSCO Criteria	Units:	SA-SW-D-12E-4D K2458-7 01/14/2003	SA-SW-D-12E-4D K2458-7M 01/14/2003	SA-SW-D-12E-4D K2458-7N 01/14/2003	SA-SW-C-12+22E-4D K2458-8 01/14/2003	SA-SW-C-12+22E-4D K2458-8M 01/14/2003	SA-SW-C-12+22E-4D K2458-8N 01/14/2003	SA-SW-D-35'B-4D N1631-1 01/14/2003	SA-SW-C-35'+45E-4D N1631-2 01/14/2003	SA-SW-D-60W-5D N3458-5 01/24/2003	SA-SW-C-50+60W-4-5D N3458-7 01/24/2003
MTBE	120	ppb	14.3 U	21.8 U	21.8 U	NR	NR	NR	16.1 U	NR	0.69 U	NR
Benzene	60	ppb	9.88 U	**1780**	**1800**	NR	NR	NR	11.1 U	NR	0.80 U	NR
Toluene	1500	ppb	9.39 U	**1860**	**1880**	NR	NR	NR	10.5 U	NR	0.69 U	NR
Ethylbenzene	5500	ppb	13.1 U	19.9 U	19.9 U	NR	NR	NR	14.7 U	NR	0.41 U	NR
m,p-xylene	800	ppb	18.8 U	28.6 U	28.6 U	NR	NR	NR	21.1 U	NR	1.26 U	NR
o-xylene	400	ppb	8.15 U	12.4 U	12.4 U	NR	NR	NR	9.14 U	NR	0.82 U	NR
Xylenes(Total)	1200	ppb	17.8 U	27.1 U	27.1 U	NR	NR	NR	19.9 U	NR	2.08 U	NR
Isopropylbenzene	2300	ppb	10.6 U	16.2 U	16.2 U	NR	NR	NR	11.9 U	NR	0.69 U	NR
n-Propylbenzene	3700	ppb	15.3 U	23.3 U	23.3 U	NR	NR	NR	17.2 U	NR	0.39 U	NR
1,3,5-Trimethylbenzene	3300	ppb	14.1 U	21.4 U	21.4 U	NR	NR	NR	15.8 U	NR	0.55 U	NR
tert-Butylbenzene	11000	ppb	13.6 U	20.7 U	20.7 U	NR	NR	NR	15.2 U	NR	0.46 U	NR
1,2,4-Trimethylbenzene	13000	ppb	14.8 U	22.6 U	22.6 U	NR	NR	NR	16.6 U	NR	0.14 U	NR
sec-Butylbenzene	11000	ppb	15.1 U	22.9 U	22.9 U	NR	NR	NR	16.9 U	NR	0.57 U	NR
p-Isopropyltoluene	11000	ppb	16.5 U	25.2 U	25.2 U	NR	NR	NR	18.6 U	NR	0.53 U	NR
n-Butylbenzene	12000	ppb	18.0 U	27.4 U	27.4 U	NR	NR	NR	20.2 U	NR	0.50 U	NR
Naphthalene	13000	ppb	83.6	185	170	NR	NR	NR	170	NR	1.60 U	NR
Lead	200	ppm	NR	NR	NR	180	**375**	**393**	NR	109	NR	**294**

TABLE 12A
Summary of Endpoint Soil Sample VOC Results - South Excavation, East Wall
January & February 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID: / Laboratory ID: / Sampling Date: / Analyte:	TAGM RSCO Criteria	Units:	SA-EW-D-20'N-4'D K2458-4 01/14/2003	SA-FD-(14-19)-5 N1631-7 01/14/2003	SA-EW-C-20+8N-4D K2458-5 01/14/2003	SA-FD-(14-19)-5C N1631-8 01/14/2003	SA-EW-D-35'N 4'D K2458-1 01/14/2003	SA-EW-C-35+42'N-4'D K2458-2 01/14/2003	SA-EW-D -55'N-4'D M7396-1 02/05/2003	SA-EW-C-55'N+70'N-4'D M7396-3 02/05/2003	SA-EW-D-80'N-4'D M5368-9 02/12/2003	SA-EW-C-80+93'N-4'D M5368-11 02/12/2003
MTBE	120	ppb	15.3 U	15.8 U	NR	NR	15.0 U	NR	15.1 U	NR	7.02 U	NR
Benzene	60	ppb	10.5 U	10.9 U	NR	NR	10.4 U	NR	10.4 U	NR	4.84 U	NR
Toluene	1500	ppb	9.99 U	10.3 U	NR	NR	9.84 U	NR	9.88 U	NR	4.60 U	NR
Ethylbenzene	5500	ppb	13.9 U	14.4 U	NR	NR	13.7 U	NR	13.8 U	NR	6.41 U	NR
m,p-xylene	800	ppb	20.0 U	20.7 U	NR	NR	19.7 U	NR	19.8 U	NR	9.20 U	NR
o-xylene	400	ppb	8.68 U	8.98 U	NR	NR	8.55 U	NR	8.58 U	NR	3.99 U	NR
Xylenes(Total)	1200	ppb	18.9 U	19.6 U	NR	NR	18.6 U	NR	18.7 U	NR	8.71 U	NR
Isopropylbenzene	2300	ppb	320	301	NR	NR	11.1 U	NR	11.2 U	NR	5.20 U	NR
n-Propylbenzene	3700	ppb	589	576	NR	NR	16.1 U	NR	16.1 U	NR	7.50 U	NR
1,3,5-Trimethylbenzene	3300	ppb	15.0 U	15.5 U	NR	NR	14.8 U	NR	14.8 U	NR	6.90 U	NR
tert-Butylbenzene	11000	ppb	44.2	40.2	NR	NR	14.2 U	NR	14.3 U	NR	6.66 U	NR
1,2,4-Trimethylbenzene	13000	ppb	15.8 U	16.3 U	NR	NR	15.5 U	NR	15.6 U	NR	7.26 U	NR
sec-Butylbenzene	11000	ppb	504	461	NR	NR	15.8 U	NR	15.9 U	NR	7.38 U	NR
p-Isopropyltoluene	11000	ppb	499	448	NR	NR	17.4 U	NR	17.4 U	NR	8.11 U	NR
n-Butylbenzene	12000	ppb	662	639	NR	NR	18.9 U	NR	19.0 U	NR	8.83 U	NR
Naphthalene	13000	ppb	24.7 U	25.6 U	NR	NR	24.3 U	NR	24.4 U	NR	11.4 U	NR
Lead	200-500	ppm	NR	NR	125	86.3	NR	54.3	NR	**221**	NR	**288**

TABLE 12B
Summary of Endpoint Soil Sample VOC Results - South Excavation, North Wall
January & February 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-NW-D-63'W-4'D		SA-NW-C-54+63'W-3-4'D	SA-NW-D-24'W-4'D	SA-NW-C-10+24'W-4'D
Laboratory ID:	RSCO		N3454-6		N3454-8	M5368-5	M5368-7
Sampling Date:	Criteria		01/30/2003		01/30/2003	02/12/2003	02/12/2003
Analyte:		**Units:**					
MTBE	120	ppb	6.95	U	NR	7.08 U	NR
Benzene	60	ppb	8.11	U	NR	4.88 U	NR
Toluene	1500	ppb	7.72	U	NR	4.64 U	NR
Ethylbenzene	5500	ppb	8.49	U	NR	6.47 U	NR
m,p-xylene	800	ppb	13.1	U	NR	9.27 U	NR
o-xylene	400	ppb	9.65	U	NR	4.03 U	NR
Xylenes(Total)	1200	ppb	34.4	U	NR	8.78 U	NR
Isopropylbenzene	2300	ppb	5.79	U	NR	5.25 U	NR
n-Propylbenzene	3700	ppb	6.18	U	NR	7.56 U	NR
1,3,5-Trimethylbenzene	3300	ppb	7.72	U	NR	6.95 U	NR
tert-Butylbenzene	11000	ppb	7.33	U	NR	6.71 U	NR
1,2,4-Trimethylbenzene	13000	ppb	6.56	U	NR	7.32 U	NR
sec-Butylbenzene	11000	ppb	8.49	U	NR	7.44 U	NR
p-Isopropyltoluene	11000	ppb	6.56	U	NR	8.17 U	NR
n-Butylbenzene	12000	ppb	6.56	U	NR	8.91 U	NR
Naphthalene	13000	ppb	11.2	U	NR	11.5 U	NR
Lead	200-500	ppm	NR		**441**	NR	27.1

TABLE 12C
Summary of Endpoint Soil Sample VOC Results - South Excavation, West Wall
January & February 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-WW-D-29'N-4'D		SA-WW-D-29'N-4'D MS	SA-WW-D-29'N-4'D MSD	SA-WW-C-16N-29N-4'D	SA-WW-C-16N-29N-4'D MS	SA-WW-C-16N-29N-4'D MSD	SA-WW-D-55'N-3'D	SA-WW-C-45+55'N-3'D	SA-WW-D-25'W-87'N-4'D	SA-WW-C-25'W-87+92'N-4'D
Laboratory ID:	RSCO		N3458-1		N3458-1M	N3458-1N	N3458-3	N3458-3M	N3458-3N	N3454-2	N3454-4	M5368-1	M5368-3
Sampling Date:	Criteria		01/24/2003		01/24/2003	01/24/2003	01/24/2003	01/24/2003	01/24/2003	01/30/2003	01/30/2003	02/12/2003	02/12/2003
MTBE	120	ppb	0.67	U	0.67 U	0.67 U	NR	NR	NR	6.71 U	NR	7.08 U	NR
Benzene	60	ppb	0.78	U	**112**	**131**	NR	NR	NR	7.83 U	NR	4.88 U	NR
Toluene	1500	ppb	0.67	U	74.3	103	NR	NR	NR	7.46 U	NR	4.64 U	NR
Ethylbenzene	5500	ppb	0.40	U	0.40 U	0.40 U	NR	NR	NR	8.21 U	NR	6.47 U	NR
m,p-xylene	800	ppb	1.23	U	1.23 U	1.23 U	NR	NR	NR	12.7 U	NR	9.27 U	NR
o-xylene	400	ppb	0.80	U	0.81 U	0.81 U	NR	NR	NR	9.32 U	NR	4.03 U	NR
Xylenes(Total)	1200	ppb	2.03	U	2.04 U	2.04 U	NR	NR	NR	33.2 U	NR	8.78 U	NR
Isopropylbenzene	2300	ppb	0.67	U	0.67 U	0.67 U	NR	NR	NR	5.59 U	NR	5.25 U	NR
n-Propylbenzene	3700	ppb	0.38	U	0.38 U	0.38 U	NR	NR	NR	5.97 U	NR	7.56 U	NR
1,3,5-Trimethylbenzene	3300	ppb	0.54	U	0.54 U	0.54 U	NR	NR	NR	7.46 U	NR	6.95 U	NR
tert-Butylbenzene	11000	ppb	0.45	U	0.45 U	0.45 U	NR	NR	NR	7.09 U	NR	6.71 U	NR
1,2,4-Trimethylbenzene	13000	ppb	0.13	U	0.13 U	0.13 U	NR	NR	NR	6.34 U	NR	7.32 U	NR
sec-Butylbenzene	11000	ppb	0.56	U	0.56 U	0.56 U	NR	NR	NR	8.21 U	NR	7.44 U	NR
p-Isopropyltoluene	11000	ppb	0.51	U	0.52 U	0.52 U	NR	NR	NR	6.34 U	NR	8.17 U	NR
n-Butylbenzene	12000	ppb	0.49	U	0.49 U	0.49 U	NR	NR	NR	6.34 U	NR	8.91 U	NR
Naphthalene	13000	ppb	1.56	U	14.9	1.57 U	NR	NR	NR	10.8 U	NR	11.5 U	NR
Lead	200-500	ppm	NR		NR	NR	36.2	138	**284**	NR	39.6	NR	56.4

TABLE 12D
Summary of Endpoint Soil Sample VOC Results - South Excavation, Bottom
January, February & April 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		SA-B-D-10N-10W-10D		SA-B-D-20N-15W-10.5D		SA-B-D-20N-35W-11D		SA-B-D-15W-55N-8N		SA-B-D-40N-15W-9.5D		SA-B-D-40N-30W-9.5D		SA-B-FD-45N-20W-9.5D		SA-B-D-55'W-28'N-9'D		SA-B-D-50N-53'W-8.5D		SA-B-D-72'N-15'W-11'D		SA-B-D-14'W-88'N-11.5'D		SA-B-40'N-15W-14'D	
Laboratory ID:	**RSCO**		N1631-4		N1631-5		N1631-6		N1632-6		N3457-1		N3457-2		N3457-3		N3458-9		N3454-1		M7396-6		M5368-13		AA00516-1	
Sampling Date:	**Criteria**		01/14/2003		01/14/2003		01/14/2003		01/17/2003		01/22/2003		01/22/2003		01/22/2003		01/24/2003		01/30/2003		02/05/2003		02/12/2003		4/04/03	
Analyte:		**Units:**																								
MTBE	120	ppb	14.7	U	15.7	U	14.6	U	0.70	U	26.1	U	0.72	U	26.3	U	0.68	U	6.84	U	14.0	U	7.25	U	7.40	U
Benzene	60	ppb	10.2	U	10.8	U	10.1	U	0.81	U	30.5	U	0.84	U	30.7	U	0.79	U	7.98	U	9.68	U	5.00	U	11.0	U
Toluene	1500	ppb	9.65	U	10.3	U	9.58	U	0.70	U	152		0.72	U	29.2	U	0.68	U	7.60	U	9.20	U	4.75	U	9.20	U
Ethylbenzene	5500	ppb	13.5	U	14.4	U	13.4	U	0.42	U	2860		0.43	U	1370		0.41	U	8.36	U	12.8	U	6.63	U	793	
m,p-xylene	800	ppb	19.3	U	43.1		19.2	U	1.28	U	780		3.20		332		1.24	U	12.9	U	18.4	U	9.50	U	309	
o-xylene	400	ppb	8.38	U	8.94	U	8.32	U	0.84	U	36.3	U	0.86	U	36.5	U	0.81	U	9.50	U	7.99	U	4.13	U	13.0	U
Xylenes(Total)	1200	ppb	18.3	U	43.1		18.1	U	2.11	U	780		3.20		332		2.05	U	33.8	U	17.4	U	9.00	U	309	
Isopropylbenzene	2300	ppb	10.9	U	57.2		10.8	U	0.70	U	**5280**		4.90		**2780**		0.68	U	5.70	U	10.4	U	5.38	U	1980	
n-Propylbenzene	3700	ppb	15.7	U	80.2		15.6	U	0.39	U	**9230**		3.20		**4950**		0.38	U	6.08	U	15.0	U	7.75	U	2860	
1,3,5-Trimethylbenzene	3300	ppb	14.5	U	15.4	U	14.4	U	0.56	U	**3460**		0.57	U	1660		0.54	U	7.60	U	13.8	U	7.13	U	538	
tert-Butylbenzene	11000	ppb	14.0	U	14.9	U	13.9	U	0.46	U	249		0.48	U	27.7	U	0.45	U	7.22	U	13.3	U	6.88	U	129	
1,2,4-Trimethylbenzene	13000	ppb	15.2	U	16.3	U	15.1	U	0.14	U	3260		0.14	U	1290		0.14	U	6.46	U	14.5	U	7.50	U	232	
sec-Butylbenzene	11000	ppb	15.5	U	43.1		15.4	U	0.58	U	2870		0.60	U	1560		0.56	U	8.36	U	14.8	U	7.63	U	1370	
p-Isopropyltoluene	11000	ppb	17.0	U	18.2	U	16.9	U	0.53	U	5820		0.55	U	3360		0.52	U	6.46	U	16.2	U	8.38	U	2550	
n-Butylbenzene	12000	ppb	18.5	U	33.3		18.4	U	0.51	U	6930		0.53	U	3830		0.50	U	6.46	U	17.7	U	9.13	U	2170	
Naphthalene	13000	ppb	23.9	U	25.5	U	546		1.62	U	**16800**		1.67	U	10400		1.58	U	329		3340		11.8	U	2750	
Lead	200-500	ppm	34.9		100		54.4		43.1		65.3		41.5		77.2		24.9		90.7		55.5		NR		NR	

TABLE 13
Summary of Endpoint Soil Sample PCB Results - North Excavation, West Wall
March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-WW-D-50'S-4'D		NA-WW-D-60'S-4'D		NA-WW-C-50'+60'S-9'D		NA-WW-D-80'S-4'D		NA-WW-D-70'S-4'D		NA-WW-C-70'S+80'S-9'D		NA-WW-D-90'S-4'D		NA-WW-D-100'S-4'D		NA-WW-C-90'+100'S-10'D		NA-WW-D-10'S-4'D		NA-WW-D-20S-4'D		NA-WW-C-10+20'S-9'D		NA-WW-D-40'S-4'D		NA-WW-D-30'S-4'D		NA-WW-C-30'+40'S-9'D	
Laboratory ID:	RSCO		M5398		M5398		M5398		M5398		M5398		M5398		J6944		J6944		M5399		J9645		J9645		J9645		J9645		J9645		J9645	
Sampling Date:	Criteria		3/4/2003		3/4/2003		3/4/2003		3/4/2003		3/4/2003		3/4/2003		3/26/2003		3/26/2003		3/26/2003		3/28/2003		3/28/2003		3/28/2003		3/28/2003		3/28/2003		3/28/2003	
Analyte:		Units:																														
PCB 1016	10000	ppb	7.70	U	7.45	U	7.71	U	7.75	U	7.50	U	7.45	U	7.66	U	7.67	U	7.51	U	8.18	U	7.46	U	8.36	U	7.71	U	7.91	U	7.64	U
PCB 1221	10000	ppb	9.38	U	9.07	U	9.40	U	9.44	U	9.13	U	9.07	U	9.33	U	9.34	U	9.15	U	9.96	U	9.09	U	10.2	U	9.39	U	9.63	U	9.31	U
PCB 1232	10000	ppb	6.69	U	6.47	U	6.71	U	6.74	U	6.52	U	6.47	U	6.66	U	6.67	U	6.53	U	7.11	U	6.49	U	7.27	U	6.70	U	6.87	U	6.64	U
PCB 1242	10000	ppb	8.37	U	8.10	U	8.39	U	8.43	U	8.15	U	8.10	U	8.33	U	8.34	U	8.17	U	8.89	U	8.11	U	9.09	U	8.38	U	8.60	U	8.31	U
PCB 1248	10000	ppb	10.4	U	10.1	U	10.5	U	10.5	U	10.2	U	10.1	U	10.4	U	10.4	U	10.2	U	11.1	U	10.1	U	11.3	U	10.5	U	10.7	U	10.4	U
PCB 1254	10000	ppb	6.25	U	6.05	U	6.26	U	6.29	U	6.09	U	6.05	U	6.22	U	6.23	U	6.10	U	6.64	U	6.06	U	6.79	U	6.26	U	6.42	U	6.21	U
PCB 1260	10000	ppb	6.30	U	6.09	U	6.31	U	6.34	U	6.13	U	6.09	U	39.4		6.27	U	6.15	U	6.69	U	11.5		119		6.30	U	18.7		6.25	U

TABLE 13A
Summary of Endpoint Soil Sample PCB Results - North Excavation, Bottom
February & March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-B-D-65'S-30'W-10D		NA-B-D-90'S-20W-11D		NA-B-D-90'S-20'W-11'DMS	NA-B-D-90'S-20'W-11'D MSD	NA-B-D-45'S-17'W-11'D		NA-FB-D-50'S-23'W-11'D		NA-B-D-110'S-40'W-11'D		NA-B-D-45'S-40'W-11'D		NA-B-D-18'S-10'W-12'D		MS	MSD	NA-FB-25'S-15'W-10'D		NA-B-D-15'S+35'W-10.5'D	
Laboratory ID:	RSCO		N3472-4		M5394		M5394	M5394	M5394		M5394		M5398-1		M5398-2		J6944-5		J6944-6	J6944-7	M5399-3		J6945-13	
Sampling Date:	Criteria		02/04/03		3/26/03		3/26/03	3/26/03	3/26/03		2/26/03		3/4/03		3/4/03		3/26/03		3/26/03	3/26/03	3/26/03		3/28/03	
Analyte:		Units:																						
PCB 1016	10000	ppb	7.98	U	2.55	U	282	274	9.16	U	9.22	U	8.66	U	8.35	U	8.34	U	265	277	7.91	U	8.17	U
PCB 1221	10000	ppb	9.72	U	12.0	U	12.0	U	12.0	U	11.2	U	11.2	U	10.5	U	10.2	U	10.2	U	10.2	U	10.2	U	9.63	U	9.95	U
PCB 1232	10000	ppb	6.94	U	2.67	U	2.67	U	2.67	U	7.96	U	8.02	U	7.53	U	7.26	U	7.25	U	7.25	U	7.25	U	6.87	U	7.10	U
PCB 1242	10000	ppb	8.68	U	2.00	U	2.00	U	2.00	U	9.96	U	10.0	U	9.41	U	9.08	U	9.07	U	9.07	U	9.07	U	8.60	U	8.88	U
PCB 1248	10000	ppb	10.8	U	4.51	U	4.51	U	4.51	U	12.4	U	12.5	U	11.7	U	11.3	U	11.3	U	11.3	U	11.3	U	10.7	U	11.1	U
PCB 1254	10000	ppb	6.48	U	6.82	U	6.82	U	6.82	U	7.44	U	7.49	U	7.03	U	6.78	U	6.78	U	6.78	U	6.78	U	6.42	U	6.63	U
PCB 1260	10000	ppb	6.53	U	7.83	U	269	265	7.49	U	7.55	U	7.08	U	564		6.83	U	243	267	21.6		10.0	

TABLE 13B
ımary of Endpoint Soil Sample PCB Results - North Excavation, South
April 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-SW-D-30'S-3'D		NA-SW-D-50'W-3'D		NA-SW-C-50'-30W-9'D	
Laboratory ID:	RSCO		CC19428		CC19428		CC19428	
Sampling Date:	Criteria		4/08/03		4/08/03		4/08/03	
Analyte:		Units:						
PCB 1016	10000	ppb	2.31	U	2.48	U	2.33	U
PCB 1221	10000	ppb	10.8	U	11.7	U	10.9	U
PCB 1232	10000	ppb	2.41	U	2.58	U	2.43	U
PCB 1242	10000	ppb	1.81	U	1.94	U	1.82	U
PCB 1248	10000	ppb	4.07	U	4.37	U	4.10	U
PCB 1254	10000	ppb	6.16	U	6.61	U	6.21	U
PCB 1260	10000	ppb	7.07	U	7.60	U	7.14	U

TABLE 13C
Summary of Endpoint Soil Sample PCB Results - North Excavation, East Wall
February & March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-EW-D-30'S-4'D		NA-EW-D-15'S-4'D		NA-EW-C-15'+30'S-10'D		NA-EW-D-60S-3'D		NA-EW-D-80'S-4'D		NA-EW-C-60+80'S-9'D		NA-EW-D-40'S-4'D		NA-EW-C-40&52'S-9'D		NA-EW-D-90'S-4'D		NA-EW-D-100'S-4'D		NA-EW-C-100'S-9'D	
Laboratory ID:	RSCO		J6944		J6944		J6944		N3472		N3472		N3472		M5394		M5394		M5394		M5394		M5394	
Sampling Date:	Criteria		3/26/03		3/26/03		3/26/03		2/4/2003		2/4/2003		2/4/2003		2/26/03		2/26/03		2/26/03		2/26/03		2/26/03	
Analyte:		Units:																						
PCB 1016	10000	ppb	8.41	U	8.11		8.09	U	7.86	U	9.16	U	8.40	U	2.52	U	2.29	U	8.29	U	2.55	U	2.39	U
PCB 1221	10000	ppb	10.2	U	9.88		9.85	U	9.57	U	11.2	U	10.2	U	11.8	U	10.8	U	10.1	U	12.0	U	11.2	U
PCB 1232	10000	ppb	7.31	U	7.05		7.03	U	6.83	U	7.96	U	7.30	U	2.63	U	2.40	U	7.21	U	2.67	U	2.49	U
PCB 1242	10000	ppb	9.14	U	8.82		8.80	U	8.55	U	9.96	U	9.13	U	1.97	U	1.80	U	9.01	U	2.00	U	1.87	U
PCB 1248	10000	ppb	11.4	U	11.0		11.0	U	10.7	U	12.4	U	11.4	U	4.44	U	4.05	U	11.2	U	4.51	U	4.22	U
PCB 1254	10000	ppb	6.83	U	6.59		6.57	U	6.38	U	7.44	U	6.82	U	6.72	U	6.13	U	6.73	U	6.82	U	6.38	U
PCB 1260	10000	ppb	6.88	U	86.2		6.62	U	124		257		57.5		7.72	U	6.04		6.78	U	7.83	U	7.33	U

TABLE 13D
Summary of Endpoint Soil Sample PCB Results - North Excavation, North Wall
March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-NW-D-10'W-4'D		NA-NW-D-22'W-4'D		NA-NW-C-10'+22'W-10'D		NA-NW-D-35'W-4'D		NA-NW-D-25'W-4'D		NA-NW-C-25'+35'D-9'D	
Laboratory ID:	RSCO		J6944		J6944		J6944		J6945		J6945		J6945	
Sampling Date:	Criteria		3/26/03		3/26/03		3/26/03		3/28/03		3/28/03		3/28/03	
Analyte:		Units:												
PCB 1016	10000	ppb	7.82	U	9.00	U	7.85	U	7.73	U	7.63	U	9.20	U
PCB 1221	10000	ppb	9.53	U	11.0	U	9.56	U	9.42	U	9.29	U	11.2	U
PCB 1232	10000	ppb	6.80	U	7.82	U	6.82	U	6.72	U	6.63	U	7.99	U
PCB 1242	10000	ppb	8.51	U	9.78	U	8.54	U	8.41	U	8.29	U	10.0	U
PCB 1248	10000	ppb	10.6	U	12.2	U	10.6	U	10.5	U	10.3	U	12.5	U
PCB 1254	10000	ppb	6.34	U	7.31	U	6.38	U	6.28	U	6.19	U	7.47	U
PCB 1260	10000	ppb	41.5		7.36	U	78.9		6.33	U	200		63.4	

TABLE 14
Summary of Endpoint Soil Sample SVOC Results - North Excavation, West Wall
March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-WW-D-50'S-4'D		NA-WW-C-50'+60'S-9'D		NA-WW-C-70'S+80'S-9'D		NA-WW-C-90'+100'S-10'D		NA-WW-C-10+20'S-9'D		NA-WW-C-30'+40'S-9'D	
Laboratory ID:	RSCO		M5398		M5398		M5398		M5399		J9645		J9645	
Sampling Date:	Criteria		3/4/2003		3/4/2003		3/4/2003		3/26/2003		3/28/2003		3/28/2003	
Analyte:		Units:												
Naphthalene	13000	ppb	0.95		22.0	U	21.3	U	44.1		76.7		59.8	
Acenaphthene	90000	ppb	NR		26.7	U	25.8	U	30.5	U	47.8		39.1	
Fluorene	350000	ppb	NR		32.5	U	31.4	U	32.8	U	60.4		39.1	
Phenanthrene	220000	ppb	NR		22.0	U	309		38.4		550		357	
Anthracene	700000	ppb	NR		22.0	U	72.8		36.2	U	138		100	
Fluoranthene	1900000	ppb	NR		125		523		49.7		911		611	
Pyrene	665000	ppb	NR		113		458		44.1		853		553	
Benzo(a)anthracene	3000	ppb	NR		24.4	U	243		27.1	U	509		270	
Chrysene	400	ppb	NR		26.7	U	268		22.6	U	**553**		294	
Benzo(b)fluoranthene	1100	ppb	NR		13.9	U	183		42.9	U	381		220	
Benzo(k)fluoranthene	1100	ppb	NR		18.6	U	206		31.6	U	415		213	
Benzo(a)pyrene	11000	ppb	NR		49.9		219		26.0	U	488		268	
Indeno(1,2,3-cd)pyrene	3200	ppb	NR		40.6	U	39.2	U	38.4	U	297		157	
Dibenzo(a,h)anthracene	165000000	ppb	NR		17.4	U	16.8	U	37.3	U	18.9	U	17.2	U
Benzo(g,h,i)perylene	800000	ppb	NR		13.9	U	13.4	U	28.2	U	335		189	
Acenaphthylene	41000	ppb	NR		20.9	U	20.2	U	36.2	U	22.6	U	20.7	U

TABLE 14A
Summary of Endpoint Soil Sample SVOC Results - North Excavation, Bottom
February & March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-B-D-65'S-30'W-10D		NA-B-D-90'S-20W-11D		NA-B-D-90'S-20'W-11'DMS		NA-B-D-90'S-20'W-11'D MSD		NA-B-D-45'S-17'W-11'D		NA-FB-D-50'S-23'W-11'D		NA-B-D-110'S-40'W-11'D		NA-B-D-45'S-40'W-11'D		NA-B-D-18'S-10'W-12'D		MS		MSD		NA-FB-25'S-15'W-10'D		NA-B-D-15'S+35'W 10.5'D	
Laboratory ID:	RSCO		N3472-5		M5394		M5394		M5394		M5394		M5394		M5398-1		M5398-2		J6944-5		J6944-6		J6944-7		M5399-3		J6945-13	
Sampling Date:	Criteria		2/4/03		2/26/03		2/26/03		2/26/03		2/26/03		2/26/03		3/4/03		3/4/03		3/26/03		3/26/03		3/26/03		3/26/03		3/28/03	
Analyte:		Units:																										
Naphthalene	13000	ppb	209		**14600**		12000		**15500**		616		509		2310		1280		355		48.9		57.7		42.8		23.2	U
Acenaphthene	90000	ppb	113		9990		15500		16900		437		287		698		4920		1040		4410		4340		89.2		33.2	
Fluorene	350000	ppb	80.4		4150		4060		4940		424		252		3050		5400		1190		51.4		59.0		76.1		36.9	
Phenanthrene	220000	ppb	407		9380		8560		10600		3450		1460		10600		38000		7320		299		429		703		461	
Anthracene	700000	ppb	109		1830		1570		1970		1130		455		958		8000		2220		76.5		122		181		124	
Fluoranthene	1900000	ppb	609		5360		4980		5650		8600		3340		4780		32100		4860		433		571		901		767	
Pyrene	665000	ppb	567		4590		10300		10300		7920		3090		7220		26700		4580		4850		5180		826		684	
Benzo(a)anthracene	3000	ppb	349		1960		1750		1930		**4490**		1690		1530		**11400**		2260		260		321		466		373	
Chrysene	400	ppb	**412**		**2010**		**1800**		**1930**		**4830**		**1860**		**1680**		**11400**		**2080**		269		325		**484**		378	
Benzo(b)fluoranthene	1100	ppb	270		**1280**		**1250**		**1240**		**3840**		**1460**		768		**6920**		**1260**		187		233		347		258	
Benzo(k)fluoranthene	1100	ppb	323		**1400**		**1270**		**1380**		**3740**		**1370**		952		**7720**		**1500**		201		237		313		265	
Benzo(a)pyrene	11000	ppb	328		1720		1600		1660		5260		1900		635		9260		1810		211		266		402		343	
Indeno(1,2,3-cd)pyrene	3200	ppb	168		861		812		819		2950		1060		651		**4020**		901		107		133		191		184	
Dibenzo(a,h)anthracene	165000000	ppb	22.8	U	333		289		297		1050		363		19.5	U	1600		292		41.4	U	41.4	U	39.2	U	18.4	U
Benzo(g,h,i)perylene	800000	ppb	185		906		874		847		3120		1150		992		3930		931		110		134		201		204	
Acenaphthylene	41000	ppb	26.4	U	90.1		22.5	U	82.6		24.8	U	25.0	U	529		113	U	40.2	U	40.2	U	40.2	U	38.1	U	22.1	U

TABLE 14 B
Summary of Endpoint Soil Sample SVOC Results - North Excavation, South, East & North Walls
February, March & April 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-SW-C-50'-30W-9'D	NA-EW-C-15'+30'S-10'D	NA-EW-C-60+80'S-9'D	NA-EW-C-40&52'S-9'D	NA-EW-C-90&100'S-9'D	NA-NW-C-10'+22'W-10'D	NA-NW-C-25'+35'D-9'D
Laboratory ID:	**RSCO**		**CC19428**	**J6944**	**N3472**	**M5394**	**M5394**	**J6944**	**J6945**
Sampling Date:	**Criteria**		**4/08/03**	**3/26/03**	**2/4/2003**	**2/26/03**	**2/26/03**	**3/26/03**	**3/28/03**
Analyte:		**Units:**							
Naphthalene	13000	ppb	35.3	83.9	6630	69.7	5440	26.0 U	63.4
Acenaphthene	90000	ppb	26.2	32.8 U	56.8	25.9	1280	31.9 U	66.4
Fluorene	350000	ppb	28.5 U	35.3 U	104	31.5	1940	34.2 U	52.6
Phenanthrene	220000	ppb	187	157	432	109	18300	247	401
Anthracene	700000	ppb	36.5	38.9 U	107	21.4	5760	56.7	88.5
Fluoranthene	1900000	ppb	350	170	456	180	22300	645	730
Pyrene	665000	ppb	294	142	449	165	20000	634	615
Benzo(a)anthracene	3000	ppb	162	90.0	264	103	12200	365	353
Chrysene	400	ppb	181	98.5	312	121	**14400**	383	383
Benzo(b)fluoranthene	1100	ppb	122	62.0	225	101	**9190**	306	299
Benzo(k)fluoranthene	1100	ppb	161	73.0	278	108	**9420**	314	308
Benzo(a)pyrene	11000	ppb	149	77.9	265	114	**12800**	377	339
Indeno(1,2,3-cd)pyrene	3200	ppb	76.4	41.4 U	150	39.4	**7690**	208	203
Dibenzo(a,h)anthracene	165000000	ppb	21.7 U	40.1 U	24.0 U	16.9 U	2690	39.0 U	20.7 U
Benzo(g,h,i)perylene	800000	ppb	75.3	30.4 U	154	13.5	8820	235	219
Acenaphthylene	41000	ppb	25.1 U	38.9 U	27.8 U	20.2 U	187 U	37.8 U	24.9 U

TABLE 15
Summary of Endpoint Soil Sample VOC Results - North Excavation, West Wall
March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-WW-D-50'S-4'D		NA-WW-C-50'+60'S-4'D		NA-WW-D-80'S-4'D		NA-WW-C-70+ 80'S-4'D		NA-WW-D-90'S-4'D		NA-WW-C-90'+100'S-4'D		NA-WW-D-10'S-4'D		NA-WW-D-40'S-4'D	
Laboratory ID:	RSCO		M5398		M5398		M5398		M5398		J6944		M5399		J9645		J9645	
Sampling Date:	Criteria		3/4/2003		3/4/2003		3/4/2003		3/4/2003		3/26/2003		3/26/2003		3/28/2003		3/28/2003	
Analyte:		Units:																
MTBE	120	ppb	0.85	U	NR		0.86	U	NR		2.65	U	NR		0.74	U	0.70	U
Benzene	60	ppb	0.65	U	NR		0.65	U	NR		3.94	U	NR		0.86	U	0.81	U
Toluene	1500	ppb	0.60	U	NR		0.61	U	NR		3.29	U	NR		0.74	U	4.07	
Ethylbenzene	5500	ppb	0.65	U	NR		0.65	U	NR		3.94	U	NR		0.44	U	0.42	U
m,p-xylene	800	ppb	1.55	U	NR		1.56	U	NR		11.8	U	NR		13.3		1.28	U
o-xylene	400	ppb	0.72	U	NR		0.72	U	NR		4.65	U	NR		7.19		0.84	U
Xylenes(Total)	1200	ppb	0.37	U	NR		0.37	U	NR		16.5	U	NR		20.5		2.11	U
Isopropylbenzene	2300	ppb	0.65	U	NR		0.65	U	NR		3.47	U	NR		0.74	U	0.70	U
n-Propylbenzene	3700	ppb	0.72	U	NR		0.72	U	NR		4.30	U	NR		0.42	U	0.39	U
1,3,5-Trimethylbenzene	3300	ppb	0.58	U	NR		0.58	U	NR		3.40	U	NR		4.96		0.56	U
tert-Butylbenzene	11000	ppb	0.65	U	NR		0.65	U	NR		5.37	U	NR		0.49	U	0.46	U
1,2,4-Trimethylbenzene	13000	ppb	0.76	U	NR		0.77	U	NR		3.94	U	NR		10.5		0.14	U
sec-Butylbenzene	11000	ppb	0.60	U	NR		0.61	U	NR		3.94	U	NR		0.62	U	0.58	U
p-Isopropyltoluene	11000	ppb	0.44	U	NR		0.44	U	NR		4.30	U	NR		0.57	U	0.53	U
n-Butylbenzene	12000	ppb	0.46	U	NR		0.47	U	NR		3.15	U	NR		0.54	U	0.51	U
Naphthalene	13000	ppb	0.95	U	NR		0.96	U	NR		16.5	U	NR		1.72	U	1.62	U
Lead	200-500	ppm	NR		139		NR		116		NR		134		NR		NR	

TABLE 15A
Summary of Endpoint Soil Sample VOC Results - North Excavation, Bottom
February & March 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-B-D-65'S-30'W-10D		NA-B-D-90'S-20W-11D		NA-B-D-90'S-20'W-11'DMS		NA-B-D-90'S-20'W-11'D MSD		NA-B-D-45'S-17'W-11'D		NA-FB-D-50'S-23'W-11'D		NA-B-D-110'S-40'W-11'D		NA-B-D-45'S-40'W-11'D		NA-B-D-18'S-10'W-12'D		MS		MSD		NA-FB-25'S-15'W-10'D		NA-B-D-15'S+35'W-10.5'D	
Laboratory ID:	RSCO		N3472-5		M5394		M5394		M5394		M5394		M5394		M5398-1		M5398-2		J6944-5		J6944-6		J6944-7		M5399-3		J6945-13	
Sampling Date:	Criteria		02/04/03		2/26/03		2/26/03		2/26/03		2/26/03		2/26/03		3/4/03		3/4/03		3/26/03		3/26/03		3/26/03		3/26/03		3/28/03	
Analyte:		Units:																										
MTBE	120	ppb	4.75	U	1.88	U	1.88	U	1.88	U	2.07	U	0.83	U	0.96	U	0.93	U	3.06	U	3.06	U	3.06	U	3.06	U	0.74	U
Benzene	60	ppb	46.0		8.98		**262**		**286**		8.80		5.50		0.73	U	0.70	U	4.54	U	**2040**		**2170**		4.54	U	0.86	U
Toluene	1500	ppb	37.5		37.6		263		281		32.2		13.3		0.68	U	0.65	U	3.80	U	1780		1900		3.80	U	0.74	U
Ethylbenzene	5500	ppb	54.1		15.2		10.1		25.0		1.24	U	0.50	U	0.73	U	0.70	U	4.54	U	4.54	U	4.54	U	4.54	U	0.44	U
m,p-xylene	800	ppb	201		99.9		63.8		111		59.3		45.6		3.22		1.68	U	13.6	U	13.6	U	13.6	U	13.6	U	1.35	U
o-xylene	400	ppb	6.60	U	27.1		17.7		27.4		6.93		4.33		0.81	U	0.78	U	5.37	U	5.37	U	5.37	U	5.37	U	0.89	U
Xylenes(Total)	1200	ppb	201		127		81.4		138		66.2		49.9		3.22		0.40	U	19.0	U	19.0	U	19.0	U	19.0	U	2.24	U
Isopropylbenzene	2300	ppb	301		31.1		17.2		33.7		85.4		61.8		0.73	U	0.70	U	4.01	U	4.01	U	4.01	U	4.01	U	0.74	U
n-Propylbenzene	3700	ppb	1020		33.2		17.7		41.6		101		98.5		0.81	U	0.78	U	4.96	U	4.96	U	4.96	U	4.96	U	0.42	U
1,3,5-Trimethylbenzene	3300	ppb	22.7		35.8		24.1		37.2		8.85		6.45		0.65	U	0.63	U	3.92	U	3.92	U	3.92	U	3.92	U	0.59	U
tert-Butylbenzene	11000	ppb	5.02	U	1.25	U	1.25	U	1.25	U	1.38	U	2.81		0.73	U	0.70	U	6.20	U	6.20	U	6.20	U	6.20	U	0.49	U
1,2,4-Trimethylbenzene	13000	ppb	44.9		64.7		46.4		76.4		8.12		7.84		0.86	U	0.83	U	4.54	U	4.54	U	4.54	U	4.54	U	0.15	U
sec-Butylbenzene	11000	ppb	151		5.97		3.71		6.45		40.7		27.9		0.68	U	0.65	U	4.56	U	4.54	U	4.54	U	4.54	U	0.62	U
p-Isopropyltoluene	11000	ppb	4.49	U	1.44	U	1.44	U	1.44	U	1.58	U	0.64	U	0.49	U	0.48	U	4.96	U	4.96	U	4.96	U	4.96	U	0.57	U
n-Butylbenzene	12000	ppb	290		7.84		5.28		8.59		21.5		12.3		0.52	U	0.50	U	3.63	U	3.63	U	3.63	U	3.63	U	0.54	U
Naphthalene	13000	ppb	40.1		**14600**		12000		**15500**		616		509		2310		1280		355		48.9		57.7		42.8		23.3	U
Lead	200-500	ppm	121		**349**		**362**		**348**		**360**		**211**		**221**		***536***		191		**366**		**419**		133		***805***	

TABLE 15B
Summary of Endpoint Soil Sample VOC Results - North Excavation, South, East & North Walls
February, March & April 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-SW-D-30'S-3'D		NA-EW-D-30'S-4'D		NA-EW-C-15'+30'S-4'D	NA-EW-D-60S-3'D		NA-EW-C-60+3-4'D	NA-EW-C-40&52'S-4'D	NA-EW-D-90'S-4'D		NA-EW-C-90 &100'S 4'D	NA-NW-D-10'W-4'D		NA-NW-C-10'+22'W-4'D	NA-NW-D-35'W-4'D		NA-NW-C-25'+35'W-4'D
Laboratory ID:	RSCO		CC19428		J6944		J6944	N3472		N3472	M5394	M5394		M5394	J6944		J6944	J6945		J6945
Sampling Date:	Criteria		4/08/03		3/26/03		3/26/03	2/4/2003		2/4/2003	2/26/03	2/26/03		2/26/03	3/26/03		3/26/03	3/28/03		3/28/03
Analyte:		Units:																		
MTBE	120	ppb	0.68	U	3.06	U	NR	76.3		NR	NR	1.87	U	NR	2.78	U	NR	0.70	U	NR
Benzene	60	ppb	0.79	U	4.54	U	NR	10.1	U	NR	NR	13.7		NR	4.13	U	NR	0.82	U	NR
Toluene	1500	ppb	0.68	U	3.80	U	NR	9.58	U	NR	NR	23.6		NR	3.45	U	NR	0.70	U	NR
Ethylbenzene	5500	ppb	0.41	U	4.54	U	NR	13.4	U	NR	NR	9.92		NR	4.13	U	NR	0.42	U	NR
m,p-xylene	800	ppb	1.24	U	13.6	U	NR	19.2	U	NR	NR	20.4		NR	12.4	U	NR	3.48		NR
o-xylene	400	ppb	0.81	U	5.37	U	NR	8.32	U	NR	NR	2.24	U	NR	4.88	U	NR	0.84	U	NR
Xylenes(Total)	1200	ppb	2.06	U	19.0	U	NR	18.1	U	NR	NR	20.4		NR	17.3	U	NR	3.48		NR
Isopropylbenzene	2300	ppb	0.68	U	4.01	U	NR	10.8	U	NR	NR	9.26		NR	3.64	U	NR	0.70	U	NR
n-Propylbenzene	3700	ppb	0.38	U	4.96	U	NR	15.6	U	NR	NR	6.70		NR	4.50	U	NR	0.40	U	NR
1,3,5-Trimethylbenzene	3300	ppb	0.54	U	3.92	U	NR	14.4	U	NR	NR	13.9		NR	3.56	U	NR	0.56	U	NR
tert-Butylbenzene	11000	ppb	0.45	U	6.20	U	NR	13.9	U	NR	NR	1.25	U	NR	5.63	U	NR	0.47	U	NR
1,2,4-Trimethylbenzene	13000	ppb	0.14	U	4.54	U	NR	15.1	U	NR	NR	18.4		NR	4.13	U	NR	2.69		NR
sec-Butylbenzene	11000	ppb	0.56	U	4.54	U	NR	15.4	U	NR	NR	5.97		NR	4.13	U	NR	0.58	U	NR
p-Isopropyltoluene	11000	ppb	0.52	U	4.96	U	NR	16.9	U	NR	NR	4.45		NR	4.50	U	NR	0.54	U	NR
n-Butylbenzene	12000	ppb	0.50	U	3.63	U	NR	18.4	U	NR	NR	1.37	U	NR	3.30	U	NR	0.51	U	NR
Naphthalene	13000	ppb	1.58	U	19.0	U	NR	23.7	U	NR	NR	4.36	U	NR	17.3	U	NR	1.63	U	NR
Lead	200-500	ppm	NR		NR		***645***	NR		**202**	**376**	NR		**364**	NR		139	NR		**260**

TABLE 16
Summary of Unofficial PCB Soil Sample Results - North Excavation
March 4, 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-WW-D-90'S-4'D		NA-WW-D-100'S-4'D		NA-WW-D-90'S-9'D		NA-WW-D-100'S-9'D	
Laboratory ID:	RSCO		M5400		M5400		M5400		M5400	
Sampling Date:	Criteria		3/4/2003		3/4/2003		3/4/2003		3/4/2003	
Analyte:		Units:								
PCB 1016	10000	ppb	0.0023	U	0.0026	U	0.0023	U	0.0023	U
PCB 1221	10000	ppb	0.011	U	0.012	U	0.011	U	0.011	U
PCB 1232	10000	ppb	0.0024	U	0.0027	U	0.0024	U	0.0025	U
PCB 1242	10000	ppb	0.0018	U	0.0021	U	0.0018	U	0.0018	U
PCB 1248	10000	ppb	0.0041	U	0.0046	U	0.0041	U	0.0041	U
PCB 1254	10000	ppb	0.0062	U	0.0070	U	0.0062	U	0.0063	U
PCB 1260	10000	ppb	0.0071	U	0.0081	U	0.041		0.0072	U

TABLE 16A
Summary of Unofficial TPH Soil Sample Results - North Excavation
March 4, 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

Client Sample ID:	TAGM		NA-WW-C-90'+100'S-4'D		NA-WW-C 90'+100'S-9'D	
Laboratory ID:	RSCO		M5400		M5400	
Sampling Date:	Criteria		3/4/2003		3/4/2003	
Analyte:		Units:				
TPH	Not applicable	ppm	3.42	U	3.42	U

Table 20
Summary of Groundwater Sample PCB Results
November 14, 2003
Con Edison - Third Avenue Service Center - Employee Parking Lot

SAMPLE DESIGNATION SAMPLE DATE	NYSDEC Groundwater Standards	UNITS	MW-1 11/14/03		MW-2 11/14/2003		MW-3 11/14/2003		DUPLICATE 11/14/2003	
PCBs										
Aroclor 1016	0.09	ppb	0.080	U	0.080	U	0.080	U	0.080	U
Aroclor 1221	0.09	ppb	0.030	U	0.030	U	0.030	U	0.030	U
Aroclor 1232	0.09	ppb	0.11	U	0.11	U	0.11	U	0.11	U
Aroclor 1242	0.09	ppb	0.11	U	0.11	U	0.11	U	0.11	U
Aroclor 1248	0.09	ppb	0.090	U	0.090	U	0.090	U	0.090	U
Aroclor 1254	0.09	ppb	0.040	U	0.040	U	0.040	U	0.040	U
Aroclor 1260	0.09	ppb	0.080	U	0.080	U	0.080	U	0.080	U
LEAD	NA	ppm	0.0024	U	0.0024	U	0.0024	U	0.0024	U

Table 20a
Summary of Groundwater Sample PCB Results
February 12, 2004
Con Edison - Third Avenue Service Center - Employee Parking Lot

SAMPLE DESIGNATION SAMPLE DATE	NYSDEC Groundwater Standards	UNITS	MW-1 02/12/04		MW-2 02/12/04		MW-3 02/12/04		DUPLICATE 02/12/04	
PCBs										
Aroclor 1016	0.09	ppb	0.080	U	0.080	U	0.080	U	0.080	U
Aroclor 1221	0.09	ppb	0.030	U	0.030	U	0.030	U	0.030	U
Aroclor 1232	0.09	ppb	0.11	U	0.11	U	0.11	U	0.11	U
Aroclor 1242	0.09	ppb	0.11	U	0.11	U	0.11	U	0.11	U
Aroclor 1248	0.09	ppb	0.090	U	0.090	U	0.090	U	0.090	U
Aroclor 1254	0.09	ppb	0.040	U	0.040	U	0.040	U	0.040	U
Aroclor 1260	0.09	ppb	0.080	U	0.080	U	0.080	U	0.080	U

PCBs analyzed by EPA Method 8082
NYSDEC Groundwater Standards = NYSDEC Class GA Groundwater Standards
U = The analytical result is non-detect
Duplicate = Duplicate sample collected from MW-2

Third Avenue Yard - Parking Lot - PCB/UST Remediation

Table 1: PCB Sampling (Boring and Pieziometers Locations)

Laboratory Results

COC	Sample ID	Sample type	Location	Name	Interval	PCB's (PPM)
cc14702	SA-B1-C11-30W (0-1)	B	C11-30W	SA-B1	0-1'	**1.90**
cc14702	SA-B1-C11-30W (1-6)	B			1-6'	**44.60**
cc14702	SA-B1-C11-30W (6-9)	B			6-GW	3.50
cc14702	SA-B2-C11-60W (0-1)	B	C11-60W	SA-B2	0-1'	ND
cc14702	SA-B2-C11-60W (1-6)	B			1-6'	ND
cc14702	SA-B2-C11-60W (6-11)	B			6-GW	ND
cc14715	SA-B3-C12-60W (0-1)	B	C12-60W		0-1'	**55.20**
cc14715	SA-B3-C12-60W (1-6)	B			1-6'	ND
cc14715	SA-B3-C12-60W (6-9)	B			6-GW	ND
cc14704	SA-B4-C10-30W (0-1)	B	C10-30W	SA-B4	0-1'	**105.30**
cc14704	SA-B4-C10-30W (1-6)	B			1-6'	7.30
cc14704	SA-B4-C10-30W (6-8.5)	B			6-GW	5.30
cc14703	SA-B5-C10-0W (0-1)	B	C10-0W	SA-B5	0-1'	**1,105.80**
cc14703	SA-B5-C10-0W (1-6)	B			1-6'	**1,145.70**
cc14703	SA-B5-C10-0W (6-8)	B			6-GW	1.60
cc14470	SA-B6 0-1'	B		SA-B6	0-1'	0.41
cc14470	SA-B6 1-6'	B			1-6'	0.66
cc14470	SA-B6 6-12'	B			6-GW	0.22
cc14470	SA-B7 6-12'	B		SA-B7	6-GW	**18.60**
cc14468	P-NA-1 0-1'	P	C6-8.5	P-NA-1	0-1'	0.68
cc14468	P-NA-1 1-6'	P			1-6'	ND
cc14468	P-NA-1 6-13'	P			6-GW	ND
cc14468	P-NA-2 0-1	P	C5-30W	P-NA-2	0-1'	ND
cc14468	P-NA-2 1-6'	P			1-6'	ND
cc14469	P-NA-2 6-12.5'	P			6-GW	ND
cc14469	P-NA-3 0-1'	P		P-NA-3	0-1'	0.18
cc14469	P-NA-3 1-6'	P			1-6'	ND
cc14469	P-NA-3 6-12'	P			6-GW	ND
cc14703	PSA-1-C11-0W (0-1)	P	C11-0W	P-SA-1	0-1'	**1.50**
cc14703	PSA-1-C11-0W (1-6)	P			1-6'	ND
cc14703	PSA-1-C11-0W (6-12)	P			6-GW	ND
cc14715	PSA-2 (0-1)	P	C12-8.5	P-SA-2	0-1'	ND
cc14715	PSA-2 (1-6)	P			1-6'	ND
cc14715	PSA-2 (6-13)	P			6-GW	ND
cc14470	P-SA-3 0-1'	P	C10-60W	P-SA-3	0-1'	**1.50**
cc14470	P-SA-3 1-6'	P			1-6'	ND
cc14470	P-SA-3 6-13'	P			6-GW	ND

Third Avenue Yard - Parking Lot - PCB/UST Remediation

Table 2: PCB Sampling (Test Pits Locations)

Laboratory Results

COC	Sample ID	Sample type	Location	Name	Interval	PCB Level (PPM)
cc09599	TP0 C14A (0-1')	TP	C14-8.5W	TP0	0-1'	**13.60**
cc09600	TP0 c14A (1-6')	TP			1-6'	5.11
AA00514	TP1-C13A (0-1)	TP	C13-8.5	TP1	0-1'	**15.20**
AA00517	TP1-C13A (1-6)	TP			1-6'	ND
cc19425	TP10-C9-30W (0-1)	TP	C9-30W	TP10	0-1'	4.32
cc19425	TP10-C9-30W (1-6)	TP			1-6'	0.42
cc19406	TP11-C9-0W (0-1)	TP	C9-0W	TP11	0-1'	**432.00**
cc19406	TP11-C9-0W (1-6)	TP			1-6'	**85.30**
cc19426	TP12-C8-30W (0-1)	TP	C8-30W	TP12	0-1'	ND
cc19426	TP12-C8-30W (1-6)	TP			1-6'	ND
cc19406	TP13-C8-0W (0-1)	TP	C8-0W	TP13	0-1'	ND
cc19406	TP13-C8-0W (1-6)	TP			1-6'	ND
cc19426	TP15-C7-0W On top of tank	TP	C7-0W	TP15	0-1'	ND
cc19406	TP15-C7-0W (0-1)	TP			0-1'	0.78
cc19426	TP16-C6-30W (0-1)	TP	C6-30W	TP16	0-1'	ND
cc19426	TP16-C6-30W (1-6)	TP			1-6'	ND
cc19406	TP17-C6-0W (0-1)	TP	C6-0W	TP17	0-1'	0.40
cc19406	TP17-C6-0W (1-6)	TP			1-6'	ND
AA00514	TP19-C6-60W (0-1)	TP	C6-60W	TP19	0-1'	ND
AA00514	TP19-C6-60W (1-6)	TP			1-6'	ND
cc19427	TP2-C11-A (0-1)	TP	C11-8.5	TP2	0-1'	**1.61**
cc19427	TP2-C11-A (1-6)	TP			1-6'	ND
AA00514	TP21-C5-8.5 (0-1)	TP	C5-8.5	TP21	0-1'	ND
AA00514	TP21-C5-8.5 (1-6)	TP			1-6'	ND
AA00514	TP22-C4-8.5 (0-1)	TP	C4-8.5	TP22	0-1'	ND
AA00514	TP22-C4-8.5 (1-6)	TP			1-6'	ND
cc09599	TP25 C3.5-8.5 (0-1')	TP	C3.5-8.5W	TP25	0-1'	0.46
cc09600	TP25 C3.5-8.5 (1-6')	TP			1-6'	ND
cc14705	TP26 C9.5-20w (0-1)	TP	C9.5-20W	TP26	0-1'	**2,424.20**
cc14705	TP26 C9.5-20w (1-6)	TP			1-6'	**197.50**
cc14705	TP27 C10.5-20w (0-1)	TP	C10.5-20W	TP27	0-1'	**15.60**
cc14706	TP27 c10.5-20'w (1-6)	TP			1-6'	**25.00**
cc19427	TP3-C10-A (0-1)	TP	C10-8.5	TP3	0-1'	**3.16**
cc19427	TP3-C10-A (1-6)	TP			1-6'	0.13
cc19427	TP4-C9-A (0-1)	TP	C9-8.5	TP4	0-1'	**13.60**
cc19427	TP4-C9-A (1-6)	TP			1-6'	0.22
cc19425	TP5-C8-A (0-1)	TP	C8-8.5	TP-5	0-1'	1.01
cc19425	TP5-C8-A (1-6)	TP			1-6'	0.23
cc19425	TP6-C7-A (0-1)	TP	C7-8.5	TP6	0-1'	0.47
cc19425	TP6-C7-A (1-6)	TP			1-6'	ND
AA00514	TP7-C9-60W (0-1)	TP	C9-60W	TP7	0-1'	**2.80**
AA00514	TP7-C9-60W (1-6)	TP			1-6'	ND
AA00514	TP8-C8-60W (0-1)	TP	C8-60W	TP8	0-1'	**6.90**
AA00514	TP8-C8-60W (1-6)	TP			1-6'	ND
AA00514	TP9-C7-60W (0-1)	TP	C7-60W	TP9	0-1'	**2.60**
AA00514	TP9-C7-60W (1-6)	TP			1-6'	ND

TABLE
Historical Groundwater Analytical Results

Con Edison 3rd Avenue North UST Area
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														Semi-Volatile Organic Compounds (ppb)																			Metals (ppb)
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs	Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
	NYS GA Standard		***1***	***5***	***5***	***5***	***5***	***5***	***5***	***NA***	***NA***	***5***	***5***	***5***	***10***	***10***	***NA***	***50***	***20***	***20***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***	***50***	******2***	***10***	***NA***	***50***
MW-1N	4/16/2004	11.79	**150**	**44.2**	**149**	**160.5**	**63.4**	**51.5**	**12.0**	ANR	ND	**293**	ND	ND	**26.6**	ND	950	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	21.2
	7/14/2004	11.32	**90**	**96**	**100**	**400**	**31**	**19**	**23.0**	ANR	2.0	**220**	2.0	ND	**18**	ND	1001	ND	6.0	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ND	1.0	ND	ANR	ANR	ANR	9.0	31.6
	10/14/2004	10.72	**296**	**905**	**446**	**2087**	**68.2**	**53.4**	**89.7**	ANR	ND	**266**	ND	ND	**9.43**	ND	4221	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	ANR
	2/3/2005	11.64	**75**	**8.0**	**79**	**230**	**20**	**14**	**51**	ANR	ND	**280**	ND	ND	**55**	ND	812	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	4.0	ND
	5/4/2005	11.37	**36**	**6.0**	**48**	**32**	**9**	**7**	**5.0**	ANR	ND	**38**	ND	ND	5.0	ND	186	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	1.0	6.12
	9/8/2005	11.40	**84**	**8.0**	**61**	**23**	**13**	**8**	ND	ANR	ND	**54**	ND	ND	**10**	4.0	265	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	3.0	**291.0**
	12/15/2005	11.35	**150**	**6.0**	**110**	**71**	**42**	**24**	1.0	ANR	ND	**82**	ND	ND	2JB	8.0	494	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	3.95
	3/23/2006	11.68	**94**	**3J**	**46**	**6**	**58**	**40**	ND	ANR	ND	**28**	3J	ND	ND	6.0	278	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ND
	6/15/2006	11.61	**98**	**5.0**	**21**	**7**	**50**	**32**	ND	ANR	ND	**34**	3.0	ND	3.0	3.0	256	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ND
	9/27/2006	11.13	**200**	**55**	**262**	**82**	**61**	**32**	**12**	ND	1J	**95**	ND	ND	4J	1J	799	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ND
	12/19/2006	11.40	**170**	**19**	**57**	**251**	**93**	**68**	**31**	ND	3J	**140**	**5.0**	ND	**11**	ND	845	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ND
	3/28/2007	11.90	**110**	**11**	**29**	**210**	**57**	**41**	**29**	ND	1 J	**190**	3 J	ND	9.0	3 J	693	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ND
	6/27/2007	11.33	**100**	**9.0**	4.0 J	**53**	**59**	**38**	**11**	ND	2 J	**79**	3 J	ND	9.0	2 J	369	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	15.2
	10/2/2007	11.16	**110**	**28.0**	**18**	**270**	**60**	**50**	**48**	ND	2 J	**130**	4 J	ND	**12**	ND	732	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	32
	12/20/2007	11.61	**170**	**79**	**260**	**1070**	**130**	**100**	**130**	ND	4 J	**320**	**7.0**	4 J	**11**	5 J	2290	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	24.9
	4/1/2008	11.66	**41**	2.8J	3.4J	4.9	**26**	**18**	ND	ND	ND	3.9J	1.9J	ND	ND	ND	102	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ND
	6/23/2008	11.60	**48**	4.8	1.6J	**30**	**46**	**26**	**6.2**	0.5J	ND	**9.3**	2.1J	ND	1.6J	1.6J	178	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	9/24/2008	11.40	**76**	**15**	**7.1**	**100**	**52**	**40**	**13**	0.6 J	ND	**9.7**	ND	1.8 J	2.2 J	0.6 J	318	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	4.2
	12/17/2008	11.78	**44**	**5.1**	3.6 J	**53**	**44**	**24**	**8.2**	ND	ND	4.4 J	ND	ND	0.9 J	1.4 J	189	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	3/25/2009	12.30	**24**	1.8	2.0	3.6	**29**	**19**	2.2	0.4 J	ND	1.7	1.0	0.4 J	2	0.9 J	88	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	6/3/2009	11.91	**7.2**	0.64	0.51J	2.2J	4.7	3.3	ND	ND	ND	0.81J	0.29J	ND	1.1	0.18J	21	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	9/29/2009	11.35	**5.90**	2.10	2.00	**21.00**	**6.20**	4.60	2.30	ND	ND	1.90	0.45J	ND	ND	ND	46	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	12/21/2009	11.90	**33**	**28**	**7.9**	**390**	**8.0**	1	**42**	0.3	ND	**42**	0.77J	1.20	0.68J	ND	555	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	3/24/2010	10.98	**5.90**	1.60	0.84J	**5.1**	2.50	2.00	0.63J	ND	ND	0.74J	ND	ND	ND	ND	18.57	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	6/29/2010	10.77	**3.9**	1.6	0.33J	3.0	**5.2**	4.8	0.50J	ND	ND	0.39	0.34J	0.40J	ND	ND	20.46	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	9/24/2010	10.27	**18**	**14**	**23**	**140**	**9.6**	4.8	**16**	1.0	ND	**11.0**	0.43J	0.81J	1.0	1.0	36	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	12/3/2010	11.15	**18**	**8.9**	**14**	**130**	**12**	**7.6**	**40**	0.31J	1.5	1.0	0.58J	1.3	1.0	1.0	237	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	7/1/2011	10.45	**8.9**	2.9	3.6	**30**	**17**	**13**	3.4	0.18J	ND	3.0	0.76J	0.80J	ANR	ND	84	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	12/9/2011	9.95	**1.8**	2.0	2.1	**7.7**	0.87J	0.55J	1.1	ND	ND	0.79J	ND	ND	ANR	ND	17	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	9/28/2012	9.85	**36**	**27**	**44**	**270**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	377	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	3/14/2013		**21**	**3.2**	1.4	**30.4**	**17**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.17J	73	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	1.0	ANR
	7/11/2013	9.30	**2.2**	1.6	2.8	**16**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	23	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	11/13/2014	10.23	**43**	**37**	**70**	**570**	**59**	**61**	**63**	0.57J	1.3J	**36**	2.3	4.6	ANR	0.42J	948	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	4/15/2004	12.09	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	5.10	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	18.3
	7/14/2004	11.62	ND	3.0	ND	3.0	4.0	1.0	3.0	ANR	ND	4.0	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	ND
	10/14/2004	11.09	**23.1**	ND	**16**	**34**	**22.1**	**13.8**	**51**	ANR	ND	**67.4**	ND	ND	ND	ND	228	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	ANR
	2/3/2005	11.96	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	27.1
	5/4/2005	11.70	**2**	ND	1	ND	4	2	ND	ANR	ND	2	ND	ND	ND	4.00	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	15.7
	9/7/2005	11.74	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	4	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	3.79
	12/15/2005	11.65	**2J**	ND	ND	ND	1J	ND	ND	ANR	ND	ND	ND	ND	ND	5J	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	ND
	3/23/2006	11.98	**2J**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	3J	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	14.7
	6/14/2006	11.67	**3**	ND	ND	ND	3	1.0	ND	ANR	ND	ND	ND	ND	1.0	1	9.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	12
	9/27/2006	11.36	**7**	2J	4J	**7J**	**14**	**8**	**12**	ND	ND	**13**	ND	ND	1J	1J	54	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	20.7
	12/19/2006	11.60	2J	1J	4J	3J	**7**	3J	4J	ND	ND	3J	ND	ND	ND	1J	7.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	13.3
	3/28/2007	12.24	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**76.5**
	6/27/2007	11.65	**9**	2 J	3 J	**6**	**13**	**7**	**11**	ND	ND	**10**	ND	ND	ND	ND	61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	29
	10/3/2007	11.44	**8**	2 J	3 J	**5 J**	**12**	**8**	**11**	ND	ND	3	1 J	ND	ND	4 J	57	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	36
	12/20/2007	11.97	**3 J**	1 J	2 J	**7 J**	**7**	4 J	3 J	ND	ND	5 J	ND	ND	ND	5 J	37	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	47.8
	4/1/2008	12.06	ND	ND	ND	ND	1.3J	0.9J	ND	ND	ND	0.2J	ND	ND	ND	0.5J	2.9	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	5.7
	6/23/2008	11.95	ND	0.4J	ND	ND	1.2J	0.7J	0.2J	ND	ND	0.2J	ND	ND	ND	0.5J	3.2	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR

TABLE
Historical Groundwater Analytical Results

Con Edison 3rd Avenue North UST Area
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														Semi-Volatile Organic Compounds (ppb)																					Metals (ppb)
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs	Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***1***	***5***	***5***	***5***	***5***	***5***	***5***	***NA***	***NA***	***5***	***5***	***5***	***10***	***10***	***NA***	***50***	***20***	***20***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***	***50***	******2***	***10***	*NA*	***50***
	9/24/2008	11.71	**1.9**	1.9 J	0.4 J	3.4 J	**6.6**	3.1 J	1.4 J	ND	ND	1.4 J	0.5 J	3.1 J	0.4 J	0.4 J	25	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	15.1
	12/17/2008	11.95	0.9 J	1 J	ND	0.9 J	1.5 J	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	4.9	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	3/25/2009	12.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	6/3/2009	12.00	0.27	ND	ND	ND	0.47J	0.24J	ND	ND	ND	ND	ND	ND	ND	0.18J	1.2	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	9/28/2009	11.68	ND	1.1	ND	0.75J	1.2	0.58J	ND	ND	ND	0.31J	ND	ND	ND	0.30J	4.2	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	12/21/2009	12.21	0.52J	1	ND	2.8J	3.2	1.3	0.85J	ND	ND	0.92J	0.21J	ND	ND	0.31J	11	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	3/24/2010	11.35	0.15	0.19J	ND	ND	0.21J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	6/29/2010	10.15	0.20J	0.78J	ND	ND	0.81J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	9/24/2010	10.57	ND	0.13J	ND	ND	0.26J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	12/3/2010	11.63	ND	ND	ND	ND	0.48J	0.24J	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	4/15/2004	11.71	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	**26.1**
	7/15/2004	11.33	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	**121**
	10/13/2004	10.82	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**18.9**	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	ANR
	2/3/2005	11.73	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**15**	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	**206**
	5/4/2005	11.43	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**10**	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	49.3
	9/8/2005	11.32	**2.0**	1.0	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**17**	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	**157.0**
	12/15/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**24**	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	**556**
	3/23/2006	11.72	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**22**	22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**1330**
	6/14/2006	11.60	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	9.0	9.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**73**
	9/28/2006	11.16	**2J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**22**	22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	45
	12/19/2006	11.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**20**	20	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**435**
	3/28/2007	11.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**15**	15	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**324**
	6/27/2007	11.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17**	17	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**544**
	10/3/2007	11.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**19**	19	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**180**
	12/20/2007	11.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13**	13	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**612**
	4/2/2008	11.93	0.4J	ND	ND	ND	ND	ND	ND	ND	1.3J	0.4J	ND	ND	0.3J	9.4	12	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**92**
	6/23/2008	11.92	ND	ND	ND	ND	ND	ND	ND	ND	0.5J	ND	ND	ND	ND	7.5	8	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	9/24/2008	11.60	0.3 J	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**16**	17	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	26
	12/18/2008	11.98	0.6 J	0.5 J	ND	0.7 J	ND	ND	ND	ND	ND	ND	ND	ND	0.2 J	**15**	17	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	3/25/2009	12.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**12**	26	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	6/3/2009	10.75	0.3J	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.2	8.5	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	9/28/2009	11.42	ND	1	ND	ND	ND	ND	ND	ND	ND	0.23J	ND	ND	ND	0.34J	1.6	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	1/15/2010	11.45	0.48J	1	ND	ND	ND	ND	ND	ND	**6**	ND	ND	ND	ND	**13**	20	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	3/24/2010	11.10	ND	0.31J	ND	ND	ND	ND	ND	ND	1.50	ND	ND	ND	ND	9.60	11	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	6/29/2010	10.83	0.26J	0.61	ND	ND	ND	ND	ND	ND	0.47J	ND	ND	ND	ND	**11**	12	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	9/22/2010	10.01	0.45J	0.27J	ND	0.99J	ND	ND	ND	ND	0.27J	0.22J	ND	ND	ND	2.8	5.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	12/3/2010	11.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	2/3/2016		**7.5**	2.0	1.7	**23**	11	8.6	6.4	0.28	NA	1.0	0.41 J	0.27	0.98	ND	62.59	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR

TABLE
Historical Groundwater Analytical Results

Con Edison 3rd Avenue North UST Area
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs	Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
	NYS GA Standard		***1***	***5***	***5***	***5***	***5***	***5***	***5***	***NA***	***NA***	***5***	***5***	***5***	***10***	***10***	***NA***	***50***	***20***	***20***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***	***50***	******2***	***10***	***NA***	***50***
	2/3/2005	11.31	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	4/16/2004	10.84	**2180**	**1580**	**1560**	**7700**	**210**	**165**	**816**	ANR	**9.41**	**2560**	**13.0**	ND	**5140**	**2230**	24163	ND	5.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	5.42	**96.2**
	7/15/2004	10.35	**2690**	**4430**	**1430**	**8990**	**235**	**199**	**642**	ANR	**10.9**	**1990**	**14.7**	ND	**1400**	**1790**	23822	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	ANR
	10/13/2004	10.96	**2000**	**3900**	**1900**	**1400**	**250**	**210**	**650**	ANR	**13**	**2000**	**17.0**	ND	**980**	**870**	14190	ND	6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ND	3.0	1.0	ANR	ANR	ANR	12	**623**
	5/4/2005	11.00	**1200**	**1800**	**1100**	**6800**	**180**	**180**	**510**	ANR	ND	**2000**	ND	ND	**2200**	**1700**	17670	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0.0	**135**
	9/8/2005	11.91	**4400**	**3300**	**1000**	**4700**	**160**	**150**	**420**	ANR	ND	**1700**	ND	ND	ND	**2600**	18430	4.0	**62**	ND	ND	ND	ND	ND	ND	ND	ND	5.0	19	ND	22	4.0	ANR	ANR	ANR	116	33.1
	12/15/2005	11.25	**930**	**630**	**550**	**3000**	**69**	**64**	**190**	ANR	**12**	**650**	ND	ND	**1000B**	**1200**	7295	2J	**35**	ND	**1J**	ND	ND	ND	**1J**	ND	4J	8.0	ND	9.0	6.0	ANR	ANR	ANR	58	**149**
	3/23/2006	11.03	**3400**	**1900**	**940**	**4400**	**79**	**70**	**190**	ANR	**5**	**1100**	ND	ND	**3300**	**3500**	18884	1J	**36**	1J	ND	ND	ND	ND	ND	ND	ND	1J	7.0	ND	8.0	1J	ANR	ANR	ANR	51	**373**
	6/14/2006	11.03	**1200**	**300**	**400**	**1730**	**57**	**49**	**140**	ANR	4.0	ND	ND	ND	**210**	**920**	5010	2.0	**29**	1.0	ND	ND	ND	ND	ND	ND	ND	2.0	6.0	ND	4.0	3.0	ANR	ANR	ANR	47	**170**
	9/28/2006	10.70	**1300**	**270**	**519**	**2277**	**66**	**57**	**160**	ND	4J	**600**	4J	ND	**430**	**600**	6279	4J	**55**	ND	**3J**	**3J**	ND	**3J**	**2J**	ND	ND	9.0	14	ND	22	11	ANR	ANR	ANR	111	**290**
	12/20/2006	11.06	**1100**	**95J**	**410**	**1570**	**60J**	**57J**	**140**	ND	ND	**510**	ND	ND	**320**	**560**	4610	ND	19	2JB	ND	ND	ND	ND	ND	ND	ND	4J	ND	22	ND	ANR	ANR	ANR	41	**319**
	3/28/2007	11.48	**520**	**16 J**	**180**	**430**	**24**	**21**	**65**	ND	ND	**180**	ND	ND	**170**	**180**	1786	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	4 J	ND	4 J	1 J	ANR	ANR	ANR	25	**788**
	6/27/2007	10.82	**1900**	**96**	**660**	**2750**	**70**	**60**	**240**	ND	**5 J**	**800**	**5.0**	ND	**630**	**1300**	8516	2J	**24**	ND	ND	ND	ND	ND	ND	ND	ND	4J	ND	ND	10	4 J	19	**14**	**310**	387	**218**
	10/3/2007	10.60	**1200**	**63**	**480**	**1630**	**37**	**34**	**110**	ND	2 J	**450**	3 J	3 J	**310**	**650**	4972	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	**540**
	12/20/2007	11.08	**1500**	**75**	**1100**	**2790**	**120**	**110**	**350**	ND	**6**	**1200**	**7**	**6**	**860**	**680**	8804	ND	**65 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65 J	ND	**850**	980	**395**
	4/2/2008	11.23	**130**	**5.5**	**61**	**140**	**6.3**	**6.6**	**33.0**	ND	0.8J	**110.0**	0.9J	ND	**150**	**170**	814	1.6J	14	0.7J	**1.3**	**1.2, 1J**	0.6J	**1J**	**1.6J**	ND	4.6J	4.7J	**0.5J**	8.3J	5.8J	14	**8.6J**	**120**	188.3	**1500**
	6/23/2008	10.90	**670**	**22J**	**370**	**610**	**21J**	**23J**	**88**	ND	ND	**320**	ND	ND	**300**	**350**	2774	1.5J	19	0.6J	**1.1**	ND	ND	ND	**1.4J**	ND	3.3J	5.1J	ND	6.7J	4.2J	ND	**3.3J**	**190**	236.2	**282**
	9/24/2008	10.90	**510**	**20 J**	**270**	**500**	**15 J**	ND	**64**	ND	ND	**230**	ND	4.9 J	**240**	**230**	2084	0.7 J	13	ND	ND	ND	ND	ND	ND	ND	ND	3.7 J	ND	2.0 J	ND	ND	ND	ND	19.4	**479**
	12/17/2008	11.10	**260**	**11**	**120**	**230**	**14**	**11**	**45**	ND	ND	**120**	ND	ND	**85**	**67**	963	0.4 J	5.7 J	ND	ND	ND	ND	ND	ND	ND	ND	0.8 J	1.9 J	ND	2.1 J	0.9 J	5.2 J	ND	**60**	77	ANR
	3/25/2009	11.91	**73**	1.8	**37**	**50**	**6**	4.8	**39**	1.0	ND	**47**	0.5 J	1	**52**	**54**	368	0.3J	5.1J	ND	ND	**0.4J**	ND	ND	**0.7J**	ND	1.2J	1J	ND	0.4J	1.2J	ND	ND	0.6J	10.9	ANR
	6/3/2009	11.50	**480**	**21**	**260**	**530**	**26**	**23**	**120**	ND	ND	**330**	ND	**6.3**	**170**	**69**	2035.3	11	14	11	**1.5**	**1.2**	**11**	**1.2**	**11**	1.1	4.2J	5.3J	**4.8**	5.1J	6.3J	ND	**6.9J**	**140**	235.6	ANR
	9/28/2009	10.46	**650**	**33**	**350**	**590**	**45**	**43**	**140**	ND	ND	**450**	ND	**11**	**380**	**230**	2922	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	**190**	215	ANR
	12/21/2009	11.66	**250**	**13**	**150**	**170**	**20**	**17**	**62**	0.29J	ND	**170**	1.4	4.7	**140**	**46**	362	ND	ND	8.9J	**0.98J**	**0.96J**	ND	**0.69J**	ND	0.29J	ND	ND	**0.50J**	ND	ND	7.2J	ND	**130**	149.52	ANR
	3/24/2010	10.51	**28**	0.62J	1.60	**13**	ND	1.70	**9.10**	ND	0.27J	**18**	0.26	ND	**12**	**10**	95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR
	6/29/2010	10.34	**490**	**22**	**170**	**320**	**19**	ND	**86**	ND	ND	**250**	ND	**170***	ND	**240**	1767	ND	8.6J	ND	ND	**0.24J**	ND	**0.22J**	ND	ND	ND	ND	ND	ND	ND	3J	**6.5J**	**100**	112.06	ANR
	9/24/2010	9.78	**220**	**15**	**140**	**140**	**14**	**11**	**45**	0.23J	1.2	**120**	0.76J	1.0	**260**	**120**	503	4.4J	17	11	**4.9**	**6.7**	4.2J	**5.1**	**5.7J**	0.42J	17	7.4J	**3.5**	10J	23	ANR	ANR	ANR	120.32	ANR
	12/6/2010	10.60	**67**	2.9	**13**	**58**	2.0	1.1	**18**	ND	0.61J	1.0	0.39J	1.3	**22**	**34**	221	10	10	10	**2.0**	**2.0**	**10**	**0.83J**	10	1.0	5.9J	10	**1.2**	10	11	10	**10**	**10**	224.73	ANR
	7/1/2011	10.15	**580**	**240**	**37**	**230**	**22**	**19**	**74**	ND	1.5J	**220**	1.4J	**6.5**	**95**	**280**	1806	ND	5.7J	ND	**0.57J**	**0.49J**	ND	**0.40J**	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	**95**	102.16	ANR
	12/9/2011	9.18	**220**	**16**	**200**	**170**	**30**	**26**	**87**	0.45J	2.0	**210**	1.6	**5.2**	ANR	**33**	1001	ND	4.7J	ND	**0.65J**	**0.82J**	ND	**0.68J**	ND	ND	ND	ND	**0.45J**	ND	ND	ANR	ANR	**23**	30.3	ANR
	9/28/2012	8.80	**120**	**7.1**	**59**	**57**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	243	ND	2.9 J	ND	ND	**0.31 J**	ND	**0.26 J**	ND	ND	ND	ND	**0.24 J**	ND	ND	3.1 J	ANR	**51**	57.81	ANR
	12/19/2012	10.05	**250**	**15**	**160**	**53.8**	**26**	**23**	**55**	ANR	ANR	**56**	ANR	ANR	**150**	**21**	810	ND	5.5J	ND	**0.63J**	**0.74J**	ND	**0.56J**	ND	ND	ND	ND	**0.51J**	ND	ND	ND	ANR	**81**	88.94	ANR
	3/14/2013		**46**	2.1	**33**	**15.85J**	**4.7**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	**83**	185	ND	9.7J	ND	**2.7**	**3.7**	2.5J	**2.5**	ND	0.34J	8.7J	4.6J	**1.8**	11.0	9.7J	7.4J	ANR	**110**	174.6	ANR
	7/12/2013	8.73	**520**	**31**	**340**	**180**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	1071	2.1J	18J	ND	**1.2J**	**0.98J**	ND	**0.93J**	ND	ND	6.4J	6.8J	ND	12J	7.7J	13J	ANR	**220.0**	288.1	ANR
	11/13/2014	9.90	**1,900**	**85**	**840**	**120**	**85**	**88**	**130**	ND	ND	**42**	4.1J	**15**	ANR	**810**	4119	ND	**21J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.8J	ND	ANR	ANR	**460**	487.8	ANR
	4/16/2004	11.11	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	7/15/2004	10.73	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	10/14/2004	10.19	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	2/3/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	5/4/2005	10.85	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	9/8/2005	10.75	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	2.0	ND	2.0	ND	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ANR
	12/15/2005	11.80	ND	ND	ND	1J	ND	ND	ND	ANR	ND	ND	ND	ND	3JB	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	3/23/2006	11.20	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/14/2006	11.02	**2.0**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	1.0	ND	3.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/27/2006	10.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4J	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2006	11.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
MW-4N	3/28/3007	11.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/26/2007	10.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	3.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/3/2007	10.60	ND	1 J	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2007	11.00	ND	ND	2 J	5 J	ND	ND	2 J	ND	ND	4 J	ND	ND	**13**	ND	26	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	4/1/2008	11.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR

TABLE
Historical Groundwater Analytical Results

Con Edison 3rd Avenue North UST Area
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)															Semi-Volatile Organic Compounds (ppb)																				Metals (ppb)
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs	Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***1***	***5***	***5***	***5***	***5***	***5***	***5***	***NA***	***NA***	***5***	***5***	***5***	***10***	***10***	***NA***	***50***	***20***	***20***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***	***50***	******2***	***10***	***NA***	***50***
	6/23/2008	11.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/24/2008	10.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/17/2008	11.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	3/25/2009	11.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/3/2009	9.45	ND	ND	ND	ND	0.37J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/28/2009	10.86	ND	0.48J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	1/15/2010	11.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	3/24/2010	10.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/30/2010	10.27	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/24/2010	9.81	ND	0.98J	0.32J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/3/2010	10.85	ND	3.0	ND	0.49J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	7/12/2013	8.90	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	4/15/2004	11.54	**7.93**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**46.4**	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	7/15/2004	11.18	**3.0**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	6.0	9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	10/14/2004	10.55	**12.4**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**51.6**	64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	2/3/2005	11.47	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	5/4/2005	11.10	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	3.0	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	9/8/2005	11.23	**2.0**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	8.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	12/15/2005	11.25	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	3J	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ANR
	3/23/2006	11.54	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	4J	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/14/2006	11.33	**3.0**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	3.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/28/2006	10.89	**2J**	1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	5.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2006	11.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3J	3.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	3/28/2007	11.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	2.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/27/2007	11.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/3/2007	10.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	7.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/20/2007	11.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.0	6.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	4/2/2008	11.58	ND	0.6J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/23/2008	11.55	**5.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/25/2008	11.35	ND	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J	0.8	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/17/2008	9.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	3/25/2009	12.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1	5.1	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/4/2009	11.67	0.77J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	3.2	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/28/2009	11.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23J	ND	ND	ND	0.51J	0.7	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/21/2009	11.55	ND	0.63J	ND	0.47J	ND	ND	ND	ND	ND	0.37J	ND	ND	ND	ND	1.5	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	3/24/2010	10.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.70	3.7	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/29/2010	10.43	0.19J	0.99J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9	6.1	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/24/2010	9.95	0.26J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33J	0.6	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/6/2010	11.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	2/3/2016		**2,300**	**130**	**1100**	**220**	120	110	160	ND	NA	130	3.9	ND	**750**	530	6246.4	ND	13 J	ND	ND	ND	ND	ND	ND	ND	ND	4.7 J	9.8 J	ND	16 J	4.4 J	ANR	ANR	**570**	607.0	ANR
	5/11/2016		**1,900**	**110**	**850**	**220**	**160**	**170**	**41**	2.0 J	ANR	**96**	**7.4**	**13**	**740**	**290**	5,203.9	ND	**21**	3.3 J	ND	ND	ND	ND	ND	ND	ND	4.7 J	9.8 J	ND	16 J	4.4 J	ANR	ANR	**500**	555.9	ANR

TABLE
Historical Groundwater Analytical Results

Con Edison 3rd Avenue North UST Area
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)															Semi-Volatile Organic Compounds (ppb)																			Metals (ppb)
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs	Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
	NYS GA Standard		***1***	***5***	***5***	***5***	***5***	***5***	***5***	***NA***	***NA***	***5***	***5***	***5***	***10***	***10***	***NA***	***50***	***20***	***20***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***	***50***	******2***	***10***	*NA*	***50***
MW-9N	4/16/2004	11.89	ND	ND	ND	**16.7**	ND	ND	ND	ANR	ND	**9.78**	ND	ND	**37.8**	**37.7**	102	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	26.9
	7/15/2004	10.52	ND	ND	ND	4.0	2.0	ND	1.0	ANR	ND	2.0	ND	ND	**12**	**17**	38	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	2	12.9
	10/14/2004	9.98	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**21.6**	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	ANR
	2/3/2005	10.88	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	**1260**
	5/4/2005	10.61	**3.0**	ND	1.0	2.0	2.0	ND	ND	ANR	ND	1.0	ND	ND	**21**	**10**	40	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	1	**66.4**
	9/7/2005	10.70	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	2.0	**10**	12	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	1	48.1
	12/15/2005	10.58	**2J**	ND	ND	ND	2J	ND	ND	ANR	ND	ND	ND	ND	2JB	**11**	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	**328**
	3/23/2006	10.78	**2J**	ND	ND	ND	3J	ND	ND	ANR	ND	ND	ND	ND	ND	5J	0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**313**
	6/15/2006	10.78	1.0	ND	ND	ND	3.0	ND	ND	ANR	ND	ND	ND	ND	5.0	8.0	17	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	19
	9/28/2006	10.31	**2J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	6.0	6.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	32.1
	12/19/2006	10.74	ND	ND	ND	ND	**78**	ND	ND	ND	ND	ND	ND	ND	3J	7.0	85	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**77.5**
	3/28/2007	11.05	ND	1 J	ND	ND	**24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**381**
	6/27/2007	10.57	ND	ND	ND	ND	**41**	ND	ND	ND	ND	ND	ND	ND	ND	ND	41	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**398**
	10/3/2007	10.25	ND	ND	ND	ND	**170**	ND	ND	ND	ND	ND	ND	ND	ND	5 J	175	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**760**
	12/20/2007	10.79	ND	ND	1 J	4 J	**180**	ND	ND	ND	ND	2.0	ND	ND	ND	5.0	192	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**287**
	4/1/2008	10.46	ND	ND	ND	ND	**280**	ND	ND	ND	ND	ND	ND	ND	ND	1.9J	282	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/23/2008	11.80	ND	ND	0.6J	0.7J	**430**	ND	ND	ND	ND	0.3J	ND	ND	5.7	3.7J	441	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/25/2008	11.60	0.6 J	ND	ND	ND	**310**	ND	ND	ND	ND	ND	ND	ND	1.0 J	1.6 J	313	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**363**
	12/18/2008	10.75	0.4 J	ND	ND	ND	**87**	ND	ND	ND	ND	ND	ND	ND	ND	ND	87	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	3/25/2009	11.45	ND	0.3 J	ND	0.9 J	**190**	0.2 J	ND	1.0	0.3J	0.2 J	1.0	1.0	1.4	6.6	203	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/4/2009	11.10	0.43J	0.29J	0.68J	2.2J	**120**	ND	ND	ND	0.22J	0.28J	ND	ND	6.5	5.9	137	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/28/2009	10.65	ND	ND	ND	ND	**14**	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/21/2009	11.10	ND	0.41J	ND	1.2J	1.3	ND	ND	ND	ND	0.38J	ND	ND	ND	ND	2.1	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	3/24/2010	10.30	0.30J	0.28J	ND	ND	**44**	ND	ND	ND	ND	ND	ND	ND	1.10	0.91J	47	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	6/30/2010	9.97	0.43	0.82J	ND	ND	**53**	ND	ND	ND	ND	ND	ND	ND	ND	1.9	56	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/24/2010	9.50	0.68J	0.55J	0.31J	0.60J	**80**	ND	ND	ND	ND	ND	ND	ND	ND	2.4	85	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/3/2010	10.45	0.18J	0.17J	ND	0.54J	**53**	ND	ND	ND	ND	ND	ND	ND	0.94J	0.40J	56	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	7/1/2011	9.90	0.28J	ND	0.21J	ND	**29**	ND	ND	ND	ND	ND	ND	ND	ANR	2.4	42	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/9/2011	8.93	0.61J	0.44J	0.33J	0.89J	**16**	ND	ND	ND	ND	ND	ND	ND	ANR	1.6	20	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	9/28/2012	8.81	**2.9**	0.42 J	0.45 J	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	4	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2012	9.93	0.27J	ND	**5**	ND	**14**	ANR	ANR	ANR	ANR	ND	ANR	ANR	ANR	1.8	21	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	3/14/2013		ND	ND	ND	0.36J	**24**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	2.4	27	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	1	ANR
	7/11/2013	8.43	**3.2**	ND	ND	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	3.2	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	11/13/2014		**2.6**	ND	0.45J	ND	0.87J	ND	ND	ND	ND	ND	ND	ND	ANR	1.4	5	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	11/14/2014		ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	7.43	7.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	**59.4**
	11/15/2014		ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	4.0	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	37.3
	11/16/2014		ND	ND	ND	**21**	ND	ND	ND	ANR	ND	ND	ND	ND	ND	9.25	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	ANR
	11/17/2014		ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	15.6
	11/18/2014		ND	ND	ND	**21**	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	**164**
	11/19/2014		ND	**8**	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	2.0	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	**304**
	11/20/2014		ND	ND	ND	ND	ND	ND	ND	ANR	ND	1J	ND	ND	2JB	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	0	**128**
	11/21/2014		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**166**
	11/22/2014		**2**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	2.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**130**
	11/23/2014		ND	**32**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**166**
	11/24/2014		ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**264**
	11/25/2014		ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**456**
	11/26/2014		ND	**9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**1630**
	11/27/2014		ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5 J	6.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**190**
	11/28/2014		ND	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	8.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**909**
	11/29/2014		ND	0.8J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**929**

TABLE
Historical Groundwater Analytical Results

Con Edison 3rd Avenue North UST Area
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)															Semi-Volatile Organic Compounds (ppb)																				Metals (ppb)
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs	Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***1***	***5***	***5***	***5***	***5***	***5***	***5***	***NA***	***NA***	***5***	***5***	***5***	***10***	***10***	***NA***	***50***	***20***	***20***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***	***50***	******2***	***10***	*NA*	***50***
	11/30/2014		ND	0.5J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5J	1.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**154**
	12/1/2014		ND	0.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2 J	1.1	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**492**
	12/2/2014		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/3/2014		ND	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/4/2014		0.4J	ND	0.51J	1.1J	ND	0.46J	ND	ND	ND	1.3	ND	ND	**13**	ND	24	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/5/2014		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/6/2014		ND	0.64J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/7/2014		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/8/2014		0.17J	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/9/2014		ND	**5.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18J	6.0	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/10/2014		ND	0.61J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	2/3/2016		0.12 J	ND	ND	ND	2.1	ND	ND	ND	NA	ND	ND	ND	ND	1.7	10.42	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR

Notes:
* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).
+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.
** - Indicates Analysis Not Run due to free product in MW
*** - Applies to sum of phenols
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated

2016 Groundwater Analtyical Results - Volatile Organic Compounds

Con Edison 3rd Avenue Service Center - North UST Area

Client ID	NY NYSDEC			**MW-1N**			**MW-4N**			**MW-4N**			**MW-9N**			**FB**			**Trip Blank**		
Lab Sample ID	Groundwater			460-108480-1			460-108480-2			460-113760-2			460-108480-3			460-108480-4			460-108480-5		
Sampling Date	Criteria			02/03/2016 09:35:00			02/03/2016 11:35:00			05/11/2016 09:35:00			02/03/2016 10:40:00			02/03/2016 11:58:00			02/03/2016 00:00:00		
Matrix				Water			Water			Water			Water			Water			Water		
Dilution Factor				1			5			5			1			1			1		
Unit	ug/l			ug/l			ug/l			ug/l			ug/l			ug/l			ug/l		
VOA-8260C-WATER		Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 8260C																			
1,2,4-Trimethylbenzene	NA	1.0		0.23	130		1.2	96		1.2	0.23	U	0.23	0.23	U	0.23	0.23	U	0.23
1,3,5-Trimethylbenzene	NA	6.4		0.25	160		1.3	41		1.3	0.25	U	0.25	0.25	U	0.25	0.25	U	0.25
Benzene	0.7	**7.5**		0.090	**2300**		0.45	**1900**		0.45	0.12	J	0.090	0.090	U	0.090	0.090	U	0.090
Ethylbenzene	5	1.7		0.30	**1100**		1.5	**850**		1.5	0.30	U	0.30	0.30	U	0.30	0.30	U	0.30
Isopropylbenzene	NA	11		0.32	120		1.6	160		1.6	2.1		0.32	0.32	U	0.32	0.32	U	0.32
MTBE	NA	0.13	U	0.13	530		0.65	290		0.65	1.7		0.13	0.13	U	0.13	0.13	U	0.13
Naphthalene	10	0.98	J	0.26	**750**		1.3	**740**		1.3	0.26	U	0.26	0.26	U	0.26	0.26	U	0.26
n-Butylbenzene	NA	0.27	U	0.27	1.4	U	1.4	13		1.4	0.27	U	0.27	0.27	U	0.27	0.27	U	0.27
N-Propylbenzene	NA	8.6		0.29	110		1.5	170		1.5	0.29	U	0.29	0.29	U	0.29	0.29	U	0.29
p-Isopropyltoluene	NA	0.26	U	0.26	2.5	J	1.3	4.5	J	1.3	0.26	U	0.26	0.26	U	0.26	0.26	U	0.26
sec-Butylbenzene	NA	0.41	J	0.31	3.9	J	1.6	7.4		1.6	0.31	U	0.31	0.31	U	0.31	0.31	U	0.31
tert-Butyl alcohol (TBA)	NA	1.2	U	1.2	690		6.0	600		6.0	6.5	J	1.2	1.2	U	1.2	1.2	U	1.2
tert-Butylbenzene	NA	0.28	U	0.28	1.4	U	1.4	2.0	J	1.4	0.28	U	0.28	0.28	U	0.28	0.28	U	0.28
Toluene	5	2.0		0.25	**130**		1.3	**110**		1.3	0.25	U	0.25	0.25	U	0.25	0.25	U	0.25
Xylenes, Total	5	**23**		0.28	**220**		1.4	**220**		1.4	0.28	U	0.28	0.28	U	0.28	0.28	U	0.28
Total Conc	NA	62.59			6246.4			5203.9			10.42			0.0			0.0		

Highlighted Concentrations shown in bold type face exceed limits
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U : Indicates the analyte was analyzed for but not detected.

2016 Groundwater Analtyical Results - Semi-Volatile Organic Compounds

Con Edison 3rd Avenue Service Center - North UST Area

Client ID	NY NYSDEC	**MW-4N**			**MW-4N**		
Lab Sample ID	Groundwater	460-108480-2			460-113760-2		
Sampling Date	Criteria	02/03/2016 11:35:00			05/11/2016 09:35:00		
Matrix		Water			Water		
Dilution Factor		10			5		
Unit	ug/l	ug/l			ug/l		
SVOA-8270D-WATER		Result	Q	MDL	Result	Q	MDL
WATER BY 8270D							
Acenaphthene	20	13	J D	9.2	**21**	J	4.4
Acenaphthylene	20	6.8	U	6.8	3.3	U	3.3
Anthracene	50	5.9	U	5.9	2.9	U	2.9
Benzo[a]anthracene	0.002	5.7	U	5.7	2.8	U	2.8
Benzo[a]pyrene	0.002	1.7	U	1.7	0.80	U	0.80
Benzo[b]fluoranthene	0.002	4.6	U	4.6	2.2	U	2.2
Benzo[g,h,i]perylene	5	7.8	U	7.8	3.8	U	3.8
Benzo[k]fluoranthene	0.002	1.9	U	1.9	0.90	U	0.90
Chrysene	0.002	7.0	U *	7.0	3.4	U	3.4
Dibenz(a,h)anthracene	50	0.94	U	0.94	0.45	U	0.45
Fluoranthene	50	7.5	U	7.5	4.7	J	3.6
Fluorene	50	8.3	U	8.3	9.8	J	4.0
Indeno[1,2,3-cd]pyrene	0.002	2.2	U	2.2	1.1	U	1.1
Naphthalene	10	**570**	D	8.3	**500**		4.0
Phenanthrene	50	15	J D	6.8	16	J	3.3
Pyrene	50	9.0	J D	8.6	4.4	J	4.2
Total Conc	NA	607.0			555.9		

D : Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U : Indicates the analyte was analyzed for but not detected.
X : Surrogate is outside control limits

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-001
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1260	<0.0183	mg/kg dry	EPA 8082A		
PCB Total	<0.0183	mg/kg dry	EPA 8082 A		
Results of Analysis					
Total Solids	91.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-002
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
O-xylene	<2000	ug/kg	EPA 8260C		
1,1,1,2-Tetrachloroethane	<2000	ug/kg	EPA 8260C		
1,1,1-Trichloroethane	<2000	ug/kg	EPA 8260C		
1,1,2,2-Tetrachloroethane	<2000	ug/kg	EPA 8260C		
1,1,2-Trichloroethane	<2000	ug/kg	EPA 8260C		
1,1,2-Trifluoro-1,2,2-Trichloroethane	<2000	ug/kg	EPA 8260C		
1,1-Dichloroethane	<2000	ug/kg	EPA 8260C		
1,1-Dichloroethene	<2000	ug/kg	EPA 8260C		
1,1-Dichloropropene	<2000	ug/kg	EPA 8260C		
1,2,3-Trichlorobenzene	<2000	ug/kg	EPA 8260C		
1,2,3-trichloropropane	<2000	ug/kg	EPA 8260C		
1,2,4-Trichlorobenzene	<2000	ug/kg	EPA 8260C		
1,2,4-Trimethylbenzene	<2000	ug/kg	EPA 8260C		
1,2-Dibromo-3-chloropropane	<2000	ug/kg	EPA 8260C		
1,2-Dibromoethane	<2000	ug/kg	EPA 8260C		
1,2-Dichlorobenzene	<2000	ug/kg	EPA 8260C		
1,2-Dichloroethane	<2000	ug/kg	EPA 8260C		
1,2-Dichloropropane	<2000	ug/kg	EPA 8260C		
1,3,5-Trimethylbenzene	<2000	ug/kg	EPA 8260C		
1,3-Dichlorobenzene	<2000	ug/kg	EPA 8260C		
1,3-Dichloropropane	<2000	ug/kg	EPA 8260C		
1,3-Dichrloropropylene	<2000	ug/kg	EPA 8260C		
1,4-Dichlorobenzene	<2000	ug/kg	EPA 8260C		
2,2-Dichloropropane	<2000	ug/kg	EPA 8260C		
2-Butanone	<2000	ug/kg	EPA 8260C		
2-Chloroethyl Vinyl Ether	<7900	ug/kg	EPA 8260C		
2-Chlorotoluene	<2000	ug/kg	EPA 8260C		
2-Hexanone	<2000	ug/kg	EPA 8260C		
4-Chlorotoluene	<2000	ug/kg	EPA 8260C		
4-Methyl-2-Pentanone	<2000	ug/kg	EPA 8260C		
Acetone	15000	ug/kg	EPA 8260C		
Acrolein	<4000	ug/kg	EPA 8260C		
Acrylonitrile	<2000	ug/kg	EPA 8260C		
Benzene	<2000	ug/kg	EPA 8260C		
Bromobenzene	<2000	ug/kg	EPA 8260C		
Bromochloromethane	<2000	ug/kg	EPA 8260C		
Bromodichloromethane	<2000	ug/kg	EPA 8260C		
Bromoform	<2000	ug/kg	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-002
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
Bromomethane	<2000	ug/kg	EPA 8260C		
Carbon Disulfide	<2000	ug/kg	EPA 8260C		
Carbon Tetrachloride	<2000	ug/kg	EPA 8260C		
Chlorobenzene	<2000	ug/kg	EPA 8260C		
Chloroethane	<2000	ug/kg	EPA 8260C		
Chloroform	<2000	ug/kg	EPA 8260C		
Chloromethane	<2000	ug/kg	EPA 8260C		
cis-1,2-Dichloroethene	<2000	ug/kg	EPA 8260C		
cis-1,3-Dichloropropene	<2000	ug/kg	EPA 8260C		
Dibromochloromethane	<2000	ug/kg	EPA 8260C		
Dibromomethane	<2000	ug/kg	EPA 8260C		
Dichlorodifluoromethane	<2000	ug/kg	EPA 8260C		
Ethyl Benzene	<2000	ug/kg	EPA 8260C		
Hexachlorobutadiene	<2000	ug/kg	EPA 8260C		
Isopropylbenzene	<2000	ug/kg	EPA 8260C		
Methyl tert-butyl ether	<2000	ug/kg	EPA 8260C		
Methylene Chloride	<4000	ug/kg	EPA 8260C		
Naphthalene	400000	ug/kg	EPA 8260C		
n-Butylbenzene	<2000	ug/kg	EPA 8260C		
n-Propylbenzene	<2000	ug/kg	EPA 8260C		
p-Isopropyltoluene	<2000	ug/kg	EPA 8260C		
sec-Butylbenzene	<2000	ug/kg	EPA 8260C		
Styrene	<2000	ug/kg	EPA 8260C		
tert-Butylbenzene	<2000	ug/kg	EPA 8260C		
Tetrachloroethene	<2000	ug/kg	EPA 8260C		
Toluene	<2000	ug/kg	EPA 8260C		
trans-1,2-Dichloroethene	<2000	ug/kg	EPA 8260C		
trans-1,3-Dichloropropene	<2000	ug/kg	EPA 8260C		
Trichloroethene	<2000	ug/kg	EPA 8260C		
Trichlorofluoromethane	<2000	ug/kg	EPA 8260C		
Vinyl Chloride	<2000	ug/kg	EPA 8260C		
Xylenes, Total	<6000	ug/kg	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-002
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	90.0	%	SM2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-003
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
(Total) RCRA Metals					
Arsenic as As	4.56	mg/kg dry	EPA 6010C		
Barium as Ba	56.8	mg/kg dry	EPA 6010C		
Cadmium as Cd	<0.330	mg/kg dry	EPA 6010C		
Chromium as Cr	13.2	mg/kg dry	EPA 6010C		
Lead as Pb	104	mg/kg dry	EPA 6010C		
Mercury as Hg	0.320	mg/kg dry	EPA 7473		
Selenium as Se	3.58	mg/kg dry	EPA 6010C		
Silver as Ag	<0.550	mg/kg dry	EPA 6010C		
Results of Analysis					
Total Solids	91.0	%	SM 2540G		
Copper Analysis					
Copper As Cu	35.8	mg/kg dry	EPA 6010C		
Nickel as Ni Analysis					
Nickel As Ni	18.6	mg/kg dry	EPA 6010C		
Zinc Analysis					
Zinc As Zn	66.4	mg/kg dry	EPA 6010C		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-004
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
TPH - Dielectric/Diesel Fluid Range Organics Analysis					
Gasoline Range Organics	167	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	89.3	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-005
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Ignitability Analysis					
Ignitability	not ignit				

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: analyzed by method : EPA 1030P

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-006
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
TPH - Dielectric/Diesel Fluid Range Organics Analysis					
Total Petroleum Hydrocarb	351	mg/kg dry	EPA 8100 Mod.		
DiChevrol Fluid 100 Cable Oil	<11.0	mg/kg dry	EPA 8100 Mod.		
DiChevrol Fluid 500 Cable Oil	<11.0	mg/kg dry	EPA 8100 Mod.		
Kerosene	<11.0	mg/kg dry	EPA 8100 Mod.		
#6 Fuel Oil	<11.0	mg/kg dry	EPA 8100 Mod.		
Diesel Fuel Oil	<11.0	mg/kg dry	EPA 8100 Mod.		
Natural Ester Oil Transformer Fluid	<11.0	mg/kg dry	EPA 8100 Mod.		
Mineral Oil Transformer Fluid	<11.0	mg/kg dry	EPA 8100 Mod.		
5W30 Synthetic Motor Oil	<11.0	mg/kg dry	EPA 8100 Mod.		
5W40 Synthetic Motor Oil	<11.0	mg/kg dry	EPA 8100 Mod.		
Results of Analysis					
Total Solids	90.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-007
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Reactive Cyanide Analysis					
Cyanide As HCN Releasable	<0.250	mg/Kg	EPA SW-846 Ch 7.3.3		
Reactive Sulfide Analysis					
Sulfide As H2S Releasable	<15.0	mg/Kg	EPA SW-846 Ch 7.3.4		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-008
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Analysis for pH (Lab) and Temperature					
Ph	9.15	pH units	EPA 9045D		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-009
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Total Organic Halides (TOX)					
Total Organic Halides (TOX)	<7.71	mg/kg dry	EPA 9023		
Results of Analysis					
Total Solids	90.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-07392-010
Incident Number:
Chain of Custody ID: HH07253
Submitter: Wilkes, Jason
Job Site : Brooklyn
Email to: BellowsB@coned.com;GONZALEZMAR@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 9/26/2014
Date Received: 9/24/2014
Date Sampled: 9/24/2014

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: Soil from Dry Well Exc for Clean Earth Parameters
Location: 3rd Ave Yard
Sampled: 9/24/2014 12:45 PM By: Hosein, Richard

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) RCRA Metals					
Arsenic as As	<0.004	mg/L	EPA 6010C/1311	<=5.00	
Barium as Ba	0.658	mg/L	EPA 6010C/1311	<=100.00	
Cadmium as Cd	<0.003	mg/L	EPA 6010C/1311	<=1.00	
Chromium as Cr	<0.005	mg/L	EPA 6010C/1311	<=5.00	
Lead as Pb	0.584	mg/L	EPA 6010C/1311	<=5.00	
Mercury as Hg	<0.000200	mg/L	EPA 7473/1311	<=0.20	
Selenium as Se	<0.010	mg/L	EPA 6010C/1311	<=1.00	
Silver as Ag	<0.005	mg/L	EPA 6010C/1311	<=5.00	
TCLP Copper					
Copper As Cu	0.0145	mg/L	EPA 6010C/1311		
TCLP Nickel					
Nickel As Ni	0.0674	mg/L	EPA 6010C/1311		
TCLP Zinc					
Zinc As Zn	0.446	mg/L	EPA 6010C/1311		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

4/17/2015

Lab Sequence Number: 15-02645-001
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: phase 3 parameters- Large pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0177	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0177	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0177	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0177	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0177	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0177	mg/kg dry	EPA 8082A		
Aroclor 1260	0.371	mg/kg dry	EPA 8082A		
PCB Total	0.371	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	94.1	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-002
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters- Large pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
M,p-xylene	50	ug/kg dry	EPA 8260C		
O-xylene	45	ug/kg dry	EPA 8260C		
1,1,1,2-Tetrachloroethane	<6.2	ug/kg dry	8260C		
1,1,1-Trichloroethane	<6.2	ug/kg dry	8260C		
1,1,2,2-Tetrachloroethane	<6.2	ug/kg dry	8260C		
1,1,2-Trichloroethane	<6.2	ug/kg dry	8260C		
1,1,2-Trifluoro-1,2,2-Trichloroethane	<6.2	ug/kg dry	8260C		
1,1-Dichloroethane	<6.2	ug/kg dry	8260C		
1,1-Dichloroethene	<6.2	ug/kg dry	8260C		
1,1-Dichloropropene	<6.2	ug/kg dry	8260C		
1,2,3-Trichlorobenzene	<6.2	ug/kg dry	8260C		
1,2,3-trichloropropane	<6.2	ug/kg dry	8260C		
1,2,4-Trichlorobenzene	<6.2	ug/kg dry	8260C		
1,2,4-Trimethylbenzene	17000	ug/kg dry	8260C		D
1,2-Dibromo-3-chloropropane	<6.2	ug/kg dry	8260C		
1,2-Dibromoethane	<6.2	ug/kg dry	8260C		
1,2-Dichlorobenzene	<6.2	ug/kg dry	8260C		
1,2-Dichloroethane	<6.2	ug/kg dry	8260C		
1,2-Dichloropropane	<6.2	ug/kg dry	8260C		
1,3,5-Trimethylbenzene	7700	ug/kg dry	8260C		D
1,3-Dichlorobenzene	<6.2	ug/kg dry	8260C		
1,3-Dichloropropane	<6.2	ug/kg dry	8260C		
1,4-Dichlorobenzene	<6.2	ug/kg dry	8260C		
2,2-Dichloropropane	<6.2	ug/kg dry	8260C		
2-Butanone	<6.2	ug/kg dry	8260C		
2-Chloroethyl Vinyl Ether	<25	ug/kg dry	8260C		
2-Chlorotoluene	<6.2	ug/kg dry	8260C		
2-Hexanone	<6.2	ug/kg dry	8260C		
4-Chlorotoluene	<6.2	ug/kg dry	8260C		
4-Methyl-2-Pentanone	<6.2	ug/kg dry	8260C		
Acetone	24	ug/kg dry	8260C		SCAL
Acrolein	<12	ug/kg dry	8260C		
Acrylonitrile	<6.2	ug/kg dry	8260C		
Benzene	3.8	mg/Kg-dry	8260C		J
Bromobenzene	<6.2	ug/kg dry	EPA 8260C		
Bromochloromethane	<6.2	ug/kg dry	8260C		
Bromodichloromethane	<6.2	ug/kg dry	8260C		
Bromoform	<6.2	ug/kg dry	8260C		
Bromomethane	<6.2	ug/kg dry	8260C		
Carbon Disulfide	<6.2	ug/kg dry	8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-002
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters- Large pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
Carbon Tetrachloride	<6.2	ug/kg dry	8260C		
Chlorobenzene	<6.2	ug/kg dry	8260C		
Chloroethane	<6.2	ug/kg dry	8260C		
Chloroform	<6.2	ug/kg dry	8260C		
Chloromethane	<6.2	ug/kg dry	8260C		
cis-1,2-Dichloroethene	<6.2	ug/kg dry	8260C		
cis-1,3-Dichloropropene	<6.2	ug/kg dry	8260C		
Dibromochloromethane	<6.2	ug/kg dry	8260C		
Dibromomethane	<6.2	ug/kg dry	8260C		
Dichlorodifluoromethane	<6.2	ug/kg dry	8260C		
Ethyl Benzene	21	ug/kg dry	8260C		
Hexachlorobutadiene	<6.2	ug/kg dry	8260C		
Isopropylbenzene	19	ug/kg dry	8260C		
Methyl tert-butyl ether	<6.2	ug/kg dry	8260C		
Methylene Chloride	<12	ug/kg dry	8260C		
Naphthalene	73	ug/kg dry	8260C		
n-Butylbenzene	<6.2	ug/kg dry	8260C		
n-Propylbenzene	28	ug/kg dry	8260C		
p-Isopropyltoluene	19	ug/kg dry	8260C		
sec-Butylbenzene	12	ug/kg dry	8260C		
Styrene	<6.2	ug/kg dry	8260C		
tert-Butylbenzene	<6.2	ug/kg dry	8260C		
Tetrachloroethene	<6.2	ug/kg dry	8260C		
Toluene	<6.2	ug/kg dry	8260C		
trans-1,2-Dichloroethene	<6.2	ug/kg dry	8260C		
trans-1,3-Dichloropropene	<6.2	ug/kg dry	8260C		
Trichloroethene	<6.2	ug/kg dry	8260C		
Trichlorofluoromethane	<6.2	ug/kg dry	8260C		
Vinyl Chloride	<6.2	ug/kg dry	8260C		
Xylenes, Total	95	ug/kg dry	8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

4/17/2015

Lab Sequence Number: 15-02645-002
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters- Large pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	97.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
A ELAP/NELAC does not offer certification for this analyte
C Calibration acceptability criteria exceeded for this analyte
D Results for dilution
J Estimate value below reporting limit
L
S Recovery exceeded control limits for this analyte

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-003
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: phase 3 parameters- Large pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Semivolatiles by Method 8270					
1,4-Dichlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=7.50	
2,4,5-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=400.00	
2,4,6-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=2.00	
2,4-Dinitrotoluene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
3/4-Methylphenol	<20.0	ug/L	EPA 8270D/1311	<=200.00	
2-Methylphenol	<10.0	ug/L	EPA 8270D/1311	<=200.00	
Cresols, Total	<30.0	ug/L	EPA 8270D/1311	<=200.00	
Hexachlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
Hexachlorobutadiene	<10.0	ug/L	EPA 8270D/1311	<=0.50	
Hexachloroethane	<10.0	ug/L	EPA 8270D/1311	<=3.00	
Nitrobenzene	<10.0	ug/L	EPA 8270D/1311	<=2.00	
Pentachlorophenol	<10.0	ug/L	EPA 8270D/1311	<=100.00	
Pyridine	<10.0	ug/L	EPA 8270D/1311	<=5.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-004
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
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Results of Analysis

Matrix: SOIL COMPOSITE
Description: phase 3 parameters- Large pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) RCRA Metals					
Arsenic as As	<0.004	mg/L	EPA 6010C/1311	<=5.00	
Barium as Ba	0.515	mg/L	EPA 6010C/1311	<=100.00	
Cadmium as Cd	0.006	mg/L	EPA 6010C/1311	<=1.00	
Chromium as Cr	<0.005	mg/L	EPA 6010C/1311	<=5.00	
Lead as Pb	0.883	mg/L	EPA 6010C/1311	<=5.00	
Mercury as Hg	<0.000200	mg/L	EPA 7473/1311	<=0.20	
Selenium as Se	<0.010	mg/L	EPA 6010C/1311	<=1.00	
Silver as Ag	<0.005	mg/L	EPA 6010C/1311	<=5.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-005
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: phase 3 parameters- Large pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Pesticides Analysis					
Chlordane	<0.05	ug/L	EPA 8081B/1311	<=0.03	
Endrin	<0.0114	ug/L	EPA 8081B/1311	<=0.02	
Heptachlor	<0.0114	ug/L	EPA 8081B/1311	<=0.10	
Heptachlor Epoxide	<0.0114	ug/L	EPA 8081B/1311	<=0.01	
Lindane	<0.0114	ug/L	EPA 8081B/1311	<=0.40	
Methoxychlor	<0.06	ug/L	EPA 8081B/1311	<=10.00	
Toxaphene	<0.571	ug/L	EPA 8081B/1311	<0.50	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-006
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: phase 3 parameters- Large pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Free Liquid Analysis					
Free Liquid	No Free Liquid		EPA 9095A		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

4/17/2015

Lab Sequence Number: 15-02645-007
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: met*
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
(Total) Priority Pollutant Metals					
Antimony as Sb	0.91	mg/kg dry	EPA 6010C		
Arsenic as As	8.65	mg/kg dry	EPA 6010C		
Beryllium as Be	<0.11	mg/kg dry	EPA 6010C		
Cadmium as Cd	0.40	mg/kg dry	EPA 6010C		
Chromium as Cr	12.90	mg/kg dry	EPA 6010C		
Copper as Cu	65.10	mg/kg dry	EPA 6010C		
Lead as Pb	214.00	mg/kg dry	EPA 6010C		
Mercury as Hg	0.37	mg/Kg-dry	EPA 245.1/7470-71B		
Nickel as Ni	18.00	mg/kg dry	EPA 6010C		
Selenium as Se	1.32	mg/kg dry	EPA 6010C		
Silver as Ag	<0.533	mg/kg dry	EPA 6010C		
Thallium as Tl	<1.07	mg/kg dry	EPA 6010C		
Zinc as Zn	130.00	mg/kg dry	EPA 6010C		
Results of Analysis					
Total Solids	93.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-008
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: phase 3 parameters- Large pile- EPH tp #1
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	94.1	%	SM 2540G		
Narrative Test					
	Total EPH = 667 mg/kg dry By NJDEP EPH Rev 3.0				

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-009
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters- Large pile- EPH tp #2
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	94.1	%	SM 2540G		
Narrative Test					
	Total EPH = 555 mg/kg dry By NJDEP EPH Rev 3.0				

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-010
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters- Large pile- EPH tp #3
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	93.8	%	SM 2540G		
Narrative Test					
	Total EPH = 701 mg/kg dry By NJDEP EPH Rev 3.0				

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-011
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters- Large pile- EPH tp #4
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	95.0	%	SM 2540G		
Narrative Test					
	Total EPH = 642 mg/kg dry By NJDEP EPH Rev 3.0				

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-012
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters- Large pile- EPH tp #5
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	93.7	%	SM 2540G		
Narrative Test					
	Total EPH = 912 mg/kg dry By NJDEP EPH Rev 3.0 Results for Dilution.				

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-013
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters- Large pile- EPH tp #6
Location: 3rd ave yard
Sampled: 4/15/2015 12:30 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	93.8	%	SM 2540G		
Narrative Test					
	Total EPH = 764 mg/kg dry By NJDEP EPH Rev 3.0 Results for Dilution.				

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-014
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters, small pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:40 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.182	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.182	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.182	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.182	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.182	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.182	mg/kg dry	EPA 8082A		
Aroclor 1260	2.33	mg/kg dry	EPA 8082A		
PCB Total	2.33	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	91.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-015
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters, small pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:40 PM By: Hosein, Richard

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Semivolatiles by Method 8270					
1,4-Dichlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=7.50	
2,4,5-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=400.00	
2,4,6-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=2.00	
2,4-Dinitrotoluene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
3/4-Methylphenol	<20.0	ug/L	EPA 8270D/1311	<=200.00	
2-Methylphenol	<10.0	ug/L	EPA 8270D/1311	<=200.00	
Cresols, Total	<30.0	ug/L	EPA 8270D/1311	<=200.00	
Hexachlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
Hexachlorobutadiene	<10.0	ug/L	EPA 8270D/1311	<=0.50	
Hexachloroethane	<10.0	ug/L	EPA 8270D/1311	<=3.00	
Nitrobenzene	<10.0	ug/L	EPA 8270D/1311	<=2.00	
Pentachlorophenol	<10.0	ug/L	EPA 8270D/1311	<=100.00	
Pyridine	<10.0	ug/L	EPA 8270D/1311	<=5.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-016
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters, small pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:40 PM By: Hosein, Richard

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) RCRA Metals					
Arsenic as As	<0.004	mg/L	EPA 6010C/1311	<=5.00	
Barium as Ba	0.585	mg/L	EPA 6010C/1311	<=100.00	
Cadmium as Cd	0.006	mg/L	EPA 6010C/1311	<=1.00	
Chromium as Cr	<0.005	mg/L	EPA 6010C/1311	<=5.00	
Lead as Pb	0.246	mg/L	EPA 6010C/1311	<=5.00	
Mercury as Hg	<0.000200	mg/L	EPA 7473/1311	<=0.20	
Selenium as Se	<0.010	mg/L	EPA 6010C/1311	<=1.00	
Silver as Ag	<0.005	mg/L	EPA 6010C/1311	<=5.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-017
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters, small pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:40 PM By: Hosein, Richard

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Pesticides Analysis					
Chlordane	<0.0432	ug/L	EPA 8081B/1311	<=0.03	
Endrin	<0.0108	ug/L	EPA 8081B/1311	<=0.02	
Heptachlor	<0.0108	ug/L	EPA 8081B/1311	<=0.10	
Heptachlor Epoxide	<0.0108	ug/L	EPA 8081B/1311	<=0.01	
Lindane	<0.0108	ug/L	EPA 8081B/1311	<=0.40	
Methoxychlor	<0.0541	ug/L	EPA 8081B/1311	<=10.00	
Toxaphene	<0.541	ug/L	EPA 8081B/1311	<0.50	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-018
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters, small pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:40 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Free Liquid Analysis					
Free Liquid	No Free Liquid		EPA 9095A		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-019
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters, small pile
Location: 3rd ave yard
Sampled: 4/15/2015 12:40 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
(Total) Priority Pollutant Metals					
Antimony as Sb	1.64	mg/kg dry	EPA 6010C		
Arsenic as As	19.50	mg/kg dry	EPA 6010C		
Beryllium as Be	<0.11	mg/kg dry	EPA 6010C		
Cadmium as Cd	0.71	mg/kg dry	EPA 6010C		
Chromium as Cr	17.80	mg/kg dry	EPA 6010C		
Copper as Cu	85.20	mg/kg dry	EPA 6010C		
Lead as Pb	352.00	mg/kg dry	EPA 6010C		
Mercury as Hg	0.49	mg/Kg-dry	EPA 245.1/7470-71B		
Nickel as Ni	22.10	mg/kg dry	EPA 6010C		
Selenium as Se	3.52	mg/kg dry	EPA 6010C		
Silver as Ag	<0.55	mg/kg dry	EPA 6010C		
Thallium as Tl	<1.09	mg/kg dry	EPA 6010C		
Zinc as Zn	353.00	mg/kg dry	EPA 6010C		
Results of Analysis					
Total Solids	91.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-020
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters, small pile- EPH tp 1
Location: 3rd ave yard
Sampled: 4/15/2015 12:40 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	90.5	%	SM 2540G		
Narrative Test					
	Total EPH = 2870 mg/kg dry By NJDEP EPH Rev 3.0 Results for dilution.				

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02645-021
Incident Number:
Chain of Custody ID: HH05200
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 4/17/2015
Date Received: 4/15/2015
Date Sampled: 4/15/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 3 parameters, small pile- EPH tp 2
Location: 3rd ave yard
Sampled: 4/15/2015 12:40 PM By: Hosein, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	92.7	%	SM 2540G		
Narrative Test					
	Total EPH = 763 mg/kg dry By NJDEP EPH Rev 3.0 Results for dilution.				

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

11/7/2014

Lab Sequence Number: 14-08540-001
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.177	mg/Kg-dry	EPA 8082A		
Aroclor 1221	<0.177	mg/Kg-dry	EPA 8082A		
Aroclor 1232	<0.177	mg/Kg-dry	EPA 8082A		
Aroclor 1242	<0.177	mg/Kg-dry	EPA 8082A		
Aroclor 1248	<0.177	mg/Kg-dry	EPA 8082A		
Aroclor 1254	<0.177	mg/Kg-dry	EPA 8082A		
Aroclor 1260	4.38	mg/Kg-dry	EPA 8082A		
PCB Total	4.38	mg/Kg-dry	EPA 8082A		
% Solids					
% Solids	93.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-002
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
O-xylene	<6.0	ug per kg dry	8260C		
1,1,1,2-Tetrachloroethane	<6.0	ug per kg dry	8260C		
1,1,1-Trichloroethane	<6.0	ug per kg dry	8260C		
1,1,2,2-Tetrachloroethane	<6.0	ug per kg dry	8260C		
1,1,2-Trichloroethane	<6.0	ug per kg dry	8260C		
1,1,2-Trifluoro-1,2,2-Trichloroethane	<6.0	ug per kg dry	8260C		
1,1-Dichloroethane	<6.0	ug per kg dry	8260C		
1,1-Dichloroethene	<6.0	ug per kg dry	8260C		
1,1-Dichloropropene	<6.0	ug per kg dry	8260C		
1,2,3-Trichlorobenzene	<6.0	ug per kg dry	8260C		
1,2,3-trichloropropane	<6.0	ug per kg dry	8260C		
1,2,4-Trichlorobenzene	<6.0	ug per kg dry	8260C		
1,2,4-Trimethylbenzene	930	ug per kg dry	8260C		E
1,2-Dibromo-3-chloropropane	<6.0	ug per kg dry	8260C		
1,2-Dibromoethane	<6.0	ug per kg dry	8260C		
1,2-Dichlorobenzene	<6.0	ug per kg dry	8260C		
1,2-Dichloroethane	<6.0	ug per kg dry	8260C		
1,2-Dichloropropane	<6.0	ug per kg dry	8260C		
1,3,5-Trimethylbenzene	260	ug per kg dry	8260C		
1,3-Dichlorobenzene	<6.0	ug per kg dry	8260C		
1,3-Dichloropropane	<6.0	ug per kg dry	8260C		
1,4-Dichlorobenzene	<6.0	ug per kg dry	8260C		
2,2-Dichloropropane	<6.0	ug per kg dry	8260C		
2-Butanone	<6.0	ug per kg dry	8260C		
2-Chloroethyl Vinyl Ether	<24	ug per kg dry	8260C		
2-Chlorotoluene	<6.0	ug per kg dry	8260C		
2-Hexanone	<6.0	ug per kg dry	8260C		
4-Chlorotoluene	<6.0	ug per kg dry	8260C		
4-Methyl-2-Pentanone	<6.0	ug per kg dry	8260C		
Acetone	<12	ug per kg dry	8260C		
Acrolein	<12	ug per kg dry	8260C		
Acrylonitrile	<6.0	ug per kg dry	8260C		
Benzene	<6.0	ug per kg dry	8260C		
Bromobenzene	<6.0	ug per kg dry	8260C		
Bromochloromethane	<6.0	ug per kg dry	8260C		
Bromodichloromethane	<6.0	ug per kg dry	8260C		
Bromoform	<6.0	ug per kg dry	8260C		
Carbon Disulfide	<6.0	ug per kg dry	8260C		
Carbon Tetrachloride	<6.0	ug per kg dry	8260C		
Chlorobenzene	<6.0	ug per kg dry	8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

11/7/2014

Lab Sequence Number: 14-08540-002
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
Chloroethane	<6.0	ug per kg dry	8260C		
Chloroform	<6.0	ug per kg dry	8260C		
cis-1,2-Dichloroethene	<6.0	ug per kg dry	8260C		
cis-1,3-Dichloropropene	<6.0	ug per kg dry	8260C		
Dibromochloromethane	<6.0	ug per kg dry	8260C		
Dibromomethane	<6.0	ug per kg dry	8260C		
Dichlorodifluoromethane	<6.0	ug per kg dry	8260C		
Ethyl Benzene	5.6	ug per kg dry	8260C		J
Hexachlorobutadiene	<6.0	ug per kg dry	8260C		
Isopropylbenzene	10	ug per kg dry	8260C		
Methyl tert-butyl ether	<6.0	ug per kg dry	8260C		
Methylene Chloride	<12	ug per kg dry	8260C		
Naphthalene	86	ug per kg dry	8260C		
n-Butylbenzene	10	ug per kg dry	8260C		
n-Propylbenzene	86	ug per kg dry	8260C		
p-Isopropyltoluene	5.7	ug per kg dry	8260C		J
sec-Butylbenzene	<6.0	ug per kg dry	8260C		
Styrene	<6.0	ug per kg dry	8260C		
tert-Butylbenzene	<6.0	ug per kg dry	8260C		
Tetrachloroethene	<6.0	ug per kg dry	8260C		
Toluene	<6.0	ug per kg dry	8260C		
trans-1,2-Dichloroethene	<6.0	ug per kg dry	8260C		
trans-1,3-Dichloropropene	<6.0	ug per kg dry	8260C		
Trichloroethene	<6.0	ug per kg dry	8260C		
Trichlorofluoromethane	<6.0	ug per kg dry	8260C		
Vinyl Chloride	<6.0	ug per kg dry	8260C		
Xylenes, Total	23	ug per kg dry	8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-002
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
% Solids					
% Solids	99.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
E Value above quantitation range
J Estimate value below reporting limit

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-003
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) RCRA Metals					
Arsenic as As	<0.004	mg/L	EPA 6010C/1311	<=5.00	
Barium as Ba	0.587	mg/L	EPA 6010C/1311	<=100.00	
Cadmium as Cd	0.007	mg/L	EPA 6010C/1311	<=1.00	
Chromium as Cr	<0.005	mg/L	EPA 6010C/1311	<=5.00	
Lead as Pb	0.528	mg/L	EPA 6010C/1311	<=5.00	
Mercury as Hg	<0.000200	mg/L	EPA 7473/1311	<=0.20	
Selenium as Se	<0.010	mg/L	EPA 6010C/1311	<=1.00	
Silver as Ag	<0.005	mg/L	EPA 6010C/1311	<=5.00	
Copper Analysis					
Copper As Cu	0.0438	mg/L	EPA 6010C/1311		
Nickel as Ni Analysis					
Nickel As Ni	0.0358	mg/L	EPA 6010C/1311		
Zinc Analysis					
Zinc As Zn	0.647	mg/L	EPA 6010C/1311		
% Solids					
% Solids	89.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-004
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
Total Metals Analysis					
Aluminum As Al	6430	mg/Kg-dry	EPA 6010C		
Antimony As Sb	0.596	mg/Kg-dry	EPA 6010C		
Arsenic as As	24.6	mg/Kg-dry	EPA 6010C		
Barium as Ba	90.8	mg/Kg-dry	EPA 6010C		
Beryllium as Be	<0.112	mg/Kg-dry	EPA 6010C		
Cadmium as Cd	<0.336	mg/Kg-dry	EPA 6010C		
Calcium As Ca	25500	mg/Kg-dry	EPA 6010C		
Chromium as Cr	23.2	mg/Kg-dry	EPA 6010C		
Cobalt As Co	7.65	mg/Kg-dry	EPA 6010C		
Copper as Cu	111	mg/Kg-dry	EPA 6010C		
Iron as Fe	17800	mg/Kg-dry	EPA 6010C		
Lead as Pb	489	mg/Kg-dry	EPA 6010C		
Magnesium As Mg	3960	mg/Kg-dry	EPA 6010C		
Manganese as Mn	180	mg/Kg-dry	EPA 6010C		
Mercury as Hg	0.557	mg/Kg-dry	EPA 245.1/7470-71		
Molybdenum As Mo	1.52	mg/Kg-dry	EPA 6020A		
Nickel as Ni	44.8	mg/Kg-dry	EPA 6010C		
Potassium As K	827	mg/Kg-dry	EPA 6010C		
Selenium as Se	5.41	mg/Kg-dry	EPA 6010C		
Silver as Ag	<0.559	mg/Kg-dry	EPA 6010C		
Sodium As Na	392	mg/Kg-dry	EPA 6010C		
Thallium As Tl	<1.12	mg/Kg-dry	EPA 6010C		
Tin as Sn	13.1	mg/Kg-dry	EPA 6020A		
Vanadium as V	23.0	mg/Kg-dry	EPA 6010C		
Zinc as Zn	215	mg/Kg-dry	EPA 6010C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-004
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
% Solids					
% Solids	89.4	mg/Kg-dry	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-005
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
TPH - Dielectric/Diesel Fluid Range Organics Analysis					
Gasoline Range Organics	<77.4		EPA 8015D		
% Solids					
% Solids	99.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-006
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
Ignitability Analysis					
Ignitability	Non-Ignitable		EPA 1030 P		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-007
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
Reactive Cyanide Analysis					
Cyanide As HCN Releasable	<0.250	mg/kg	EPA SW-846 Ch 7.3.3		
Reactive Sulfide Analysis					
Sulfide As H2S Releasable	<15.0	mg/kg	EPA SW-846 Ch 7.3.4		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-008
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
TPH - Dielectric/Diesel Fluid Range Organics Analysis					
Total Petroleum Hydrocarb	2090.0		EPA 8100 Mod.		
DiChevrol Fluid 100 Cable Oil	<55.9		EPA 8100 Mod.		
DiChevrol Fluid 500 Cable Oil	<55.9		EPA 8100 Mod.		
Kerosene	<55.9		EPA 8100 Mod.		
#6 Fuel Oil	<55.9		EPA 8100 Mod.		
Diesel Fuel Oil	<55.9		EPA 8100 Mod.		
Natural Ester Oil Transformer Fluid	<55.9		EPA 8100 Mod.		
Mineral Oil Transformer Fluid	<55.9		EPA 8100 Mod.		
5W30 Synthetic Motor Oil	<55.9		EPA 8100 Mod.		
5W40 Synthetic Motor Oil	<55.9		EPA 8100 Mod.		
% Solids					
% Solids	89.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-009
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Results of Analysis

Matrix: SOIL GRAB
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
Total Organic Halides (TOX)					
Total Organic Halides (TOX)	<50	mg/kg	SW846 9023		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 14-08540-010
Incident Number:
Chain of Custody ID: HH14311
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 11/7/2014
Date Received: 11/5/2014
Date Sampled: 11/5/2014

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Cable Yard Area - Phase 2
Location: 3rd Ave Yard - Parking Lot redesign project.
Sampled: 11/5/2014 10:00 AM By: Maki, Thomas W

Test Description	Result	Units	Method	Limits	Qualifier
Analysis for pH (Lab) and Temperature					
Ph	8.81	ph Units	EPA 9045D		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number:	15-02824-001	**Date Authorized:**	4/22/2015
Incident Number:	240305	**Date Received:**	4/22/2015
Chain of Custody ID:	GG20239	**Date Sampled:**	4/22/2015
Submitter:	Dunham, Sean		
Job Site :	3rd Ave		

Email to: tylerB@coned.com;; EH&S-DESK@coned.com; BQChemLabResults@coned.com; DUNHAMS@coned.com; EH&S-DESK@coned.com

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: OIL GRAB
Description: Service Box
Location: 3rd Ave Yard.
Sampled: 4/22/2015 01:46 PM **By** Vega, Richard

QC ID: PR07-4/22/2015 9:38:43 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	209.2	ppm	EPA 608/8082A		
Total PCB	209	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: James P Hendricks
Title: Manager

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Sample was received at 22.2 Deg C . Lack of thermal preservation may affect final results.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

9/17/2015

Lab Sequence Number:	15-02824-002	**Date Authorized:**	4/22/2015
Incident Number:	240305	**Date Received:**	4/22/2015
Chain of Custody ID:	GG20239	**Date Sampled:**	4/22/2015
Submitter:	Dunham, Sean		
Job Site :	3rd Ave		

Email to: tylerB@coned.com;; EH&S-DESK@coned.com; BQChemLabResults@coned.com; DUNHAMS@coned.com; EH&S-DESK@coned.com

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix:	WATEROIL	GRAB	
Description:	Service Box		
Location:	3rd Ave Yard.		
Sampled:	4/22/2015 01:46 PM	**By**	Vega, Richard

Test Description	Result	Units	Method	Limits	Qualifier
Oil Identification - Method FP13					
Oil Id	The sample does not match any current Con Ed standard.				

Status: Authorized
Authorized By: James P Hendricks
Title: Manager

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Sample was received at 22.2 Deg C . Lack of thermal preservation may affect final results.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/14/2015

Lab Sequence Number: 15-02965-001
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: Phase 3 Soil: 3A THRU 3C
Location: 3rd Ave Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

QC ID: PR01-5/5/2015 10:13:53 AM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	6.0	ppm	EPA 608/8082A		
Total PCB	6	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/14/2015

Lab Sequence Number: 15-02965-002
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: Phase 3 Soil: 3D THRU 3G
Location: 3rd Ave Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

QC ID: PR01-5/2/2015 11:22:44 AM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	3.7	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/14/2015

Lab Sequence Number: 15-02965-003
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soi pile - 4E
Location: 3rd Ave Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

QC ID: PR01-5/2/2015 11:53:11 AM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	<1.0	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02965-004
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 4 soil pile - 4A
Location: 3rd ave yard parking lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

QC ID: PR01-5/2/2015 12:23:44 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	2.9	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02965-005
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 4 soil pile - 4 B
Location: 3rd ave yard parking lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

QC ID: PR01-5/2/2015 12:54:09 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	6.6	ppm	EPA 608/8082A		
Total PCB	7	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02965-006
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 4 soil pile - 4 C
Location: 3rd ave yard parking lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

QC ID: PR01-5/2/2015 1:24:31 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	<1.0	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/14/2015

Lab Sequence Number: 15-02965-007
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 4 soil pile - 4 D
Location: 3rd ave yard parking lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

QC ID: PR01-5/2/2015 1:54:55 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	3.0	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02965-008
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 4 soil pile - 4 F
Location: 3rd ave yard parking lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

QC ID: PR01-5/2/2015 2:25:20 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<3.0	ppm	EPA 608/8082A		
Aroclor 1260	15.2	ppm	EPA 608/8082A		
Total PCB	15	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/14/2015

Lab Sequence Number: 15-02965-009
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 4 soil pile - 4 G
Location: 3rd ave yard parking lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

QC ID: PR01-5/2/2015 2:55:46 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	4.3	ppm	EPA 608/8082A		
Aroclor 1260	12.8	ppm	EPA 608/8082A		
Total PCB	17	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-02965-010
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/5/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: phase 4 soil pile - 4 H
Location: 3rd ave yard parking lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

QC ID: PR01-5/2/2015 3:26:14 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	2.5	ppm	EPA 608/8082A		
Aroclor 1260	5.3	ppm	EPA 608/8082A		
Total PCB	8	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Jennifer A Berardi
Title: Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Job Comment: Revision. Samples #002- 010- Matrix Spike QC %RPD exceeded lab acceptance limits.

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-001
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: Phase 3 Soil - 3A thru 3C
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1221	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1232	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1242	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1248	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1254	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1260	4.67	mg/kg dry	EPA 8082A		D
PCB Total	4.67	mg/kg dry	EPA 8082A		D
Results of Analysis					
Total Solids	94.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
D Results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-002
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: Phase 3 Soil - 3D thru 3G
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1221	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1232	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1242	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1248	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1254	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1260	2.32	mg/kg dry	EPA 8082A		D
PCB Total	2.32	mg/kg dry	EPA 8082A		D
Results of Analysis					
Total Solids	94.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
D Results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-003
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 4E
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1221	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1232	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1242	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1248	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1254	<0.177	mg/kg dry	EPA 8082A		D
Aroclor 1260	2.32	mg/kg dry	EPA 8082A		D
PCB Total	2.32	mg/kg dry	EPA 8082A		D
Results of Analysis					
Total Solids	94.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
D Results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-03236-004
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 4A
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1221	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1232	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1242	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1248	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1254	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1260	0.443	mg/kg dry	EPA 8082A		D
PCB Total	0.443	mg/kg dry	EPA 8082A		D
Results of Analysis					
Total Solids	98.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
D Results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-005
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 4B
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1221	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1232	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1242	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1248	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1254	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1260	2.65	mg/kg dry	EPA 8082A		D
PCB Total	2.65	mg/kg dry	EPA 8082A		D
Results of Analysis					
Total Solids	96.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
D Results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-03236-006
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 4C
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0170	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0170	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0170	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0170	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0170	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0170	mg/kg dry	EPA 8082A		
Aroclor 1260	0.120	mg/kg dry	EPA 8082A		
PCB Total	0.120	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	97.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-007
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
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Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 4D
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.532	mg/kg dry	EPA 8082A		D
Aroclor 1221	<0.532	mg/kg dry	EPA 8082A		D
Aroclor 1232	<0.532	mg/kg dry	EPA 8082A		D
Aroclor 1242	<0.532	mg/kg dry	EPA 8082A		D
Aroclor 1248	<0.532	mg/kg dry	EPA 8082A		D
Aroclor 1254	<0.532	mg/kg dry	EPA 8082A		D
Aroclor 1260	3.45	mg/kg dry	EPA 8082A		D
PCB Total	3.45	mg/kg dry	EPA 8082A		D
Results of Analysis					
Total Solids	94.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
D Results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-03236-008
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 4F
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1221	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1232	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1242	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1248	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1254	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1260	2.17	mg/kg dry	EPA 8082A		D
PCB Total	2.17	mg/kg dry	EPA 8082A		D
Results of Analysis					
Total Solids	98.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
D Results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-009
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 4G
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1221	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1232	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1242	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1248	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1254	<0.170	mg/kg dry	EPA 8082A		D
Aroclor 1260	1.55	mg/kg dry	EPA 8082A		D
PCB Total	1.55	mg/kg dry	EPA 8082A		D
Results of Analysis					
Total Solids	97.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
D Results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-03236-010
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 4H
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1221	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1232	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1242	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1248	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1254	<0.173	mg/kg dry	EPA 8082A		D
Aroclor 1260	3.81	mg/kg dry	EPA 8082A		D
PCB Total	3.81	mg/kg dry	EPA 8082A		D
Results of Analysis					
Total Solids	96.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
D Results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-011
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 3 Soil - 3A
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	517	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	94.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-012
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 3 Soil - 3B
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	465	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	94.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-013
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 3 Soil - 3C
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	516	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	94.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-014
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: Phase 3 Soil - 3D
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	551	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	98.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-015
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
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Results of Analysis

Matrix: SOIL GRAB
Description: Phase 3 Soil - 3E
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	468	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	98.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-03236-016
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 3 Soil - 3F
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	337	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	98.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-017
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 3 Soil - 3G
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 10:00 AM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	481	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	98.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-03236-018
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 3A
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	106	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	97.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-019
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 3B
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	125	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	97.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-020
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 3C
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	89.0	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	97.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-021
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 3D
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	94.0	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	97.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-022
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 3E
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	3360	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	96.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-03236-023
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 3F
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	2570	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	96.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-024
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 3G
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	2150	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	96.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

5/8/2015

Lab Sequence Number: 15-03236-025
Incident Number:
Chain of Custody ID: HH30746
Submitter: Bellows, Brian C
Job Site : Brooklyn
Email to: BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 5/8/2015
Date Received: 4/28/2015
Date Sampled: 4/28/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Phase 4 Soil - 3H
Location: 3rd Avenue Yard - Parking Lot
Sampled: 4/28/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	2270	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	96.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/9/2015

Lab Sequence Number: 15-04051-001
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Truck Pile - Sample A
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 12:30 PM By: Kruzynski, Richard W

QC ID: PR01-6/9/2015 9:32:37 AM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	10.7	ppm	EPA 608/8082A		
Aroclor 1260	28.3	ppm	EPA 608/8082A		
Total PCB	39	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04051-002
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Truck Pile - Sample B
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 12:30 PM By: Kruzynski, Richard W

QC ID: GC02-6/9/2015 1:03:55 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	19.1	ppm	EPA 608/8082A		
Aroclor 1260	57.7	ppm	EPA 608/8082A		
Total PCB	77	ppm	EPA 608/8082A		
DCB Comment	The sample had the DCB surrogate out of the Quality Control limits due to matrix interference. Results may reflect a high bias.				

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/9/2015

Lab Sequence Number: 15-04051-003
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Truck Pile - Sample C
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 12:30 PM By: Kruzynski, Richard W

QC ID: GC02-6/9/2015 9:32:49 AM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	8.9	ppm	EPA 608/8082A		
Aroclor 1260	15.6	ppm	EPA 608/8082A		
Total PCB	25	ppm	EPA 608/8082A		
DCB Comment	The sample had the DCB surrogate out of the Quality Control limits due to matrix interference. Results may reflect a high bias.				

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/9/2015

Lab Sequence Number: 15-04051-004
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Truck Pile - Sample D
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 12:30 PM By: Kruzynski, Richard W

QC ID: GC02-6/9/2015 1:29:51 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	22.3	ppm	EPA 608/8082A		
Aroclor 1260	68.3	ppm	EPA 608/8082A		
Total PCB	91	ppm	EPA 608/8082A		
DCB Comment	The sample had the DCB surrogate out of the Quality Control limits due to matrix interference. Results may reflect a high bias.				

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/9/2015

Lab Sequence Number: 15-04051-005
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil from Truck Pile - Sample E
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 12:30 PM By: Kruzynski, Richard W

QC ID: GC08-6/9/2015 1:33:29 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	85.4	ppm	EPA 608/8082A		
Total PCB	85	ppm	EPA 608/8082A		
DCB Comment	The sample had the DCB surrogate out of the Quality Control limits due to matrix interference. Results may reflect a high bias				

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04051-006
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil From North Side Pile - Sample A
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 01:00 PM By: Kruzynski, Richard W

QC ID: PR05-6/7/2015 11:20:58 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	2.8	ppm	EPA 608/8082A		
Total PCB	3	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04051-007
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil From North Side Pile - Sample B
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 01:00 PM By: Kruzynski, Richard W

QC ID: PR07-6/7/2015 8:48:37 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	2.7	ppm	EPA 608/8082A		
Total PCB	3	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04051-008
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil From North Side Pile - Sample C
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 01:00 PM By: Kruzynski, Richard W

QC ID: PR07-6/7/2015 9:19:59 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	1.8	ppm	EPA 608/8082A		
Total PCB	2	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04051-009
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil From Bldg #1 Walk - Sample A
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 01:30 PM By: Kruzynski, Richard W

QC ID: PR05-6/9/2015 10:03:43 AM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	9.7	ppm	EPA 608/8082A		
Total PCB	10	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/9/2015

Lab Sequence Number: 15-04051-010
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil From Bldg #1 Walk - Sample B
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 01:30 PM By: Kruzynski, Richard W

QC ID: GC08-6/9/2015 9:33:32 AM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	4.5	ppm	EPA 608/8082A		
Total PCB	5	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/9/2015

Lab Sequence Number: 15-04051-011
Incident Number:
Chain of Custody ID: HH29229
Submitter: Wilkes, Jason
Job Site : 3rd Ave
Email to: BellowsB@coned.com;; BQChemLabResults@coned.com; WILKESJ@coned.com

Date Authorized: 6/9/2015
Date Received: 6/5/2015
Date Sampled: 6/5/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Soil From Bldg #1 Walk - Sample C
Location: 3rd Ave Yard - Parking Lot Redesign Project - Phase 4
Sampled: 6/5/2015 01:30 PM By: Kruzynski, Richard W

QC ID: GC08-6/9/2015 10:02:50 AM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	16.0	ppm	EPA 608/8082A		
Total PCB	16	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-001
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point A
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0188	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0188	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0188	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0188	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0188	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0188	mg/kg dry	EPA 8082A		
Aroclor 1260	0.181	mg/kg dry	EPA 8082A		
PCB Total	0.181	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	88.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-002
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point B
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1260	0.332	mg/kg dry	EPA 8082A		
PCB Total	0.332	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	90.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-003
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point C
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1260	0.0904	mg/kg dry	EPA 8082A		
PCB Total	0.0904	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	96.3	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-004
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0183	mg/kg dry	EPA 8082A		
Aroclor 1260	0.120	mg/kg dry	EPA 8082A		
PCB Total	0.120	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	91.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-005
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point E
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0173	mg/kg dry	EPA 8082A		
Aroclor 1260	0.115	mg/kg dry	EPA 8082A		
PCB Total	0.115	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	96.3	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-006
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point F
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0175	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0175	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0175	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0175	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0175	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0175	mg/kg dry	EPA 8082A		
Aroclor 1260	0.0412	mg/kg dry	EPA 8082A		
PCB Total	0.0412	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	95.2	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-007
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point G
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1260	0.0528	mg/kg dry	EPA 8082A		
PCB Total	0.0528	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	90.3	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-008
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0180	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0180	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0180	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0180	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0180	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0180	mg/kg dry	EPA 8082A		
Aroclor 1260	0.932	mg/kg dry	EPA 8082A		
PCB Total	0.932	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	92.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-009
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point I
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.187	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.187	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.187	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.187	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.187	mg/kg dry	EPA 8082A		
Aroclor 1254	2.82	mg/kg dry	EPA 8082A		
Aroclor 1260	5.25	mg/kg dry	EPA 8082A		
PCB Total	8.07	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	89.1	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-010
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point J
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.191	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.191	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.191	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.191	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.191	mg/kg dry	EPA 8082A		
Aroclor 1254	1.64	mg/kg dry	EPA 8082A		
Aroclor 1260	6.11	mg/kg dry	EPA 8082A		
PCB Total	7.75	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	87.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-011
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point K
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.181	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.181	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.181	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.181	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.181	mg/kg dry	EPA 8082A		
Aroclor 1254	1.25	mg/kg dry	EPA 8082A		
Aroclor 1260	4.66	mg/kg dry	EPA 8082A		
PCB Total	5.91	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	91.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-012
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<18.4	mg/kg dry	EPA 8082A		
Aroclor 1221	<18.4	mg/kg dry	EPA 8082A		
Aroclor 1232	<18.4	mg/kg dry	EPA 8082A		
Aroclor 1242	<18.4	mg/kg dry	EPA 8082A		
Aroclor 1248	<18.4	mg/kg dry	EPA 8082A		
Aroclor 1254	155	mg/kg dry	EPA 8082A		
Aroclor 1260	275	mg/kg dry	EPA 8082A		
PCB Total	430	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	90.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-013
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point M
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<2.04	mg/kg dry	EPA 8082A		
Aroclor 1221	<2.04	mg/kg dry	EPA 8082A		
Aroclor 1232	<2.04	mg/kg dry	EPA 8082A		
Aroclor 1242	<2.04	mg/kg dry	EPA 8082A		
Aroclor 1248	<2.04	mg/kg dry	EPA 8082A		
Aroclor 1254	16.5	mg/kg dry	EPA 8082A		
Aroclor 1260	86.1	mg/kg dry	EPA 8082A		
PCB Total	102.6	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	81.5	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-014
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point N
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0184	mg/kg dry	EPA 8082A		
Aroclor 1260	0.533	mg/kg dry	EPA 8082A		
PCB Total	0.533	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	90.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-015
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point O
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0185	mg/kg dry	EPA 8082A		
Aroclor 1260	0.584	mg/kg dry	EPA 8082A		
PCB Total	0.584	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	89.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-016
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
PCB Analysis					
Aroclor 1016	<0.0186	mg/kg dry	EPA 8082A		
Aroclor 1221	<0.0186	mg/kg dry	EPA 8082A		
Aroclor 1232	<0.0186	mg/kg dry	EPA 8082A		
Aroclor 1242	<0.0186	mg/kg dry	EPA 8082A		
Aroclor 1248	<0.0186	mg/kg dry	EPA 8082A		
Aroclor 1254	<0.0186	mg/kg dry	EPA 8082A		
Aroclor 1260	0.215	mg/kg dry	EPA 8082A		
PCB Total	0.215	mg/kg dry	EPA 8082A		
Results of Analysis					
Total Solids	89.6	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-017
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point A
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	1620	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	90.5	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-018
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point B
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	1450	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	89.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-019
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point C
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	129	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	96.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-020
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	272	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	87.5	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-021
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point E
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	111	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	95.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-022
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point F
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	75.5	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	94.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-023
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point G
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	230	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	87.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-024
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	771	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	90.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-025
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point I
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	2810	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	89.2	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-026
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point J
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	557	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	76.5	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-027
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point K
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	1970	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	92.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-028
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	9500	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	88.1	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-029
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point M
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	1550	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	80.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-030
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point N
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	209	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	88.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-031
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point O
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	253	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	90.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-032
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Diesel Range Organics	602	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	88.5	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-033
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point A
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	77.5	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	89.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-034
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point B
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<80.0	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	91.2	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-035
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point C
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<87.7	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	93.6	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-036
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<87.7	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	91.2	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-037
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point E
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<69.2	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	95.2	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-038
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point F
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<75.7	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	98.1	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-039
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point G
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<64.6	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	89.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-040
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<228	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	93.3	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-041
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point I
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<92.9	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	90.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-042
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point J
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<68.9	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	88.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-043
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point K
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<70.7	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	96.6	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-044
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	90.3	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	93.1	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-045
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point M
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<68.4	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	83.8	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-046
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point N
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<114	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	92.5	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04082-047
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point O
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<85.3	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	93.6	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04082-048
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
TPH Analysis 8015					
Gasoline Range Organics	<81.9	mg/kg dry	EPA 8015D		
Results of Analysis					
Total Solids	92.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-001
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point C
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
M,p-xylene	<8.9	ug/kg dry	EPA 8260C		
O-xylene	<4.4	ug/kg dry	EPA 8260C		
1,1,1,2-Tetrachloroethane	<4.4	ug/kg dry	EPA 8260C		
1,1,1-Trichloroethane	<4.4	ug/kg dry	EPA 8260C		
1,1,2,2-Tetrachloroethane	<4.4	ug/kg dry	EPA 8260C		
1,1,2-Trichloroethane	<4.4	ug/kg dry	EPA 8260C		
1,1,2-Trifluoro-1,2,2-Trichloroethane	<4.4	ug/kg dry	EPA 8260C		
1,1-Dichloroethane	<4.4	ug/kg dry	EPA 8260C		
1,1-Dichloroethene	<4.4	ug/kg dry	EPA 8260C		
1,1-Dichloropropene	<4.4	ug/kg dry	EPA 8260C		
1,2,3-Trichlorobenzene	<4.4	ug/kg dry	EPA 8260C		
1,2,3-trichloropropane	<4.4	ug/kg dry	EPA 8260C		
1,2,4-Trichlorobenzene	<4.4	ug/kg dry	EPA 8260C		
1,2,4-Trimethylbenzene	<4.4	ug/kg dry	EPA 8260C		
1,2-Dibromo-3-chloropropane	<4.4	ug/kg dry	EPA 8260C		
1,2-Dibromoethane	<4.4	ug/kg dry	EPA 8260C		
1,2-Dichlorobenzene	<4.4	ug/kg dry	EPA 8260C		
1,2-Dichloroethane	<4.4	ug/kg dry	EPA 8260C		
1,2-Dichloropropane	<4.4	ug/kg dry	EPA 8260C		
1,3,5-Trimethylbenzene	<4.4	ug/kg dry	EPA 8260C		
1,3-Dichlorobenzene	<4.4	ug/kg dry	EPA 8260C		
1,3-Dichloropropane	<4.4	ug/kg dry	EPA 8260C		
1,4-Dichlorobenzene	<4.4	ug/kg dry	EPA 8260C		
2,2-Dichloropropane	<4.4	ug/kg dry	EPA 8260C		
2-Butanone	<4.4	ug/kg dry	EPA 8260C		
2-Chloroethyl Vinyl Ether	<18	ug/kg dry	EPA 8260C		
2-Chlorotoluene	<4.4	ug/kg dry	EPA 8260C		
2-Hexanone	<4.4	ug/kg dry	EPA 8260C		
4-Chlorotoluene	<4.4	ug/kg dry	EPA 8260C		
4-Methyl-2-Pentanone	<4.4	ug/kg dry	EPA 8260C		
Acetone	36	ug/kg dry	EPA 8260C		E
Acrolein	<8.9	ug/kg dry	EPA 8260C		
Acrylonitrile	<4.4	ug/kg dry	EPA 8260C		
Benzene	<4.4	ug/kg dry	EPA 8260C		
Bromobenzene	<4.4	ug/kg dry	EPA 8260C		
Bromochloromethane	<4.4	ug/kg dry	EPA 8260C		
Bromodichloromethane	<4.4	ug/kg dry	EPA 8260C		
Bromoform	<4.4	ug/kg dry	EPA 8260C		
Bromomethane	<4.4	ug/kg dry	EPA 8260C		
Carbon Disulfide	<4.4	ug/kg dry	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-001
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point C
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
Carbon Tetrachloride	<4.4	ug/kg dry	EPA 8260C		
Chlorobenzene	<4.4	ug/kg dry	EPA 8260C		
Chloroethane	<4.4	ug/kg dry	EPA 8260C		
Chloroform	<4.4	ug/kg dry	EPA 8260C		
Chloromethane	<4.4	ug/kg dry	EPA 8260C		
cis-1,2-Dichloroethene	<4.4	ug/kg dry	EPA 8260C		
cis-1,3-Dichloropropene	<4.4	ug/kg dry	EPA 8260C		
Dibromochloromethane	<4.4	ug/kg dry	EPA 8260C		
Dibromomethane	<4.4	ug/kg dry	EPA 8260C		
Dichlorodifluoromethane	<4.4	ug/kg dry	EPA 8260C		
Ethyl Benzene	<4.4	ug/kg dry	EPA 8260C		
Hexachlorobutadiene	<4.4	ug/kg dry	EPA 8260C		
Isopropylbenzene	<4.4	ug/kg dry	EPA 8260C		
Methyl tert-butyl ether	<4.4	ug/kg dry	EPA 8260C		
Methylene Chloride	<8.9	ug/kg dry	EPA 8260C		
Naphthalene	11	ug/kg dry	EPA 8260C		
n-Butylbenzene	<4.4	ug/kg dry	EPA 8260C		
n-Propylbenzene	<4.4	ug/kg dry	EPA 8260C		
p-Isopropyltoluene	<4.4	ug/kg dry	EPA 8260C		
sec-Butylbenzene	<4.4	ug/kg dry	EPA 8260C		
Styrene	<4.4	ug/kg dry	EPA 8260C		
tert-Butylbenzene	<4.4	ug/kg dry	EPA 8260C		
Tetrachloroethene	<4.4	ug/kg dry	EPA 8260C		
Toluene	<4.4	ug/kg dry	EPA 8260C		
trans-1,2-Dichloroethene	<4.4	ug/kg dry	EPA 8260C		
trans-1,3-Dichloropropene	<4.4	ug/kg dry	EPA 8260C		
Trichloroethene	<4.4	ug/kg dry	EPA 8260C		
Trichlorofluoromethane	<4.4	ug/kg dry	EPA 8260C		
Vinyl Chloride	<4.4	ug/kg dry	EPA 8260C		
Xylenes, Total	<13	ug/kg dry	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-001
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point C
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	92.1	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
E Value above quantitation range

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-002
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
O-xylene	<4.2	ug/kg dry	EPA 8260C		
M,p-xylene	<8.5	ug/kg dry	EPA 8260C		E
1,1,1,2-Tetrachloroethane	<4.2	ug/kg dry	EPA 8260C		
1,1,1-Trichloroethane	<4.2	ug/kg dry	EPA 8260C		
1,1,2,2-Tetrachloroethane	<4.2	ug/kg dry	EPA 8260C		
1,1,2-Trichloroethane	<4.2	ug/kg dry	EPA 8260C		
1,1,2-Trifluoro-1,2,2-Trichloroethane	<4.2	ug/kg dry	EPA 8260C		
1,1-Dichloroethane	<4.2	ug/kg dry	EPA 8260C		
1,1-Dichloroethene	<4.2	ug/kg dry	EPA 8260C		
1,1-Dichloropropene	<4.2	ug/kg dry	EPA 8260C		
1,2,3-Trichlorobenzene	<4.2	ug/kg dry	EPA 8260C		
1,2,3-trichloropropane	<4.2	ug/kg dry	EPA 8260C		
1,2,4-Trichlorobenzene	<4.2	ug/kg dry	EPA 8260C		
1,2,4-Trimethylbenzene	2.3	ug/kg dry	EPA 8260C		J
1,2-Dibromo-3-chloropropane	<4.2	ug/kg dry	EPA 8260C		
1,2-Dibromoethane	<4.2	ug/kg dry	EPA 8260C		
1,2-Dichlorobenzene	<4.2	ug/kg dry	EPA 8260C		
1,2-Dichloroethane	<4.2	ug/kg dry	EPA 8260C		
1,2-Dichloropropane	<4.2	ug/kg dry	EPA 8260C		
1,3,5-Trimethylbenzene	<4.2	ug/kg dry	EPA 8260C		
1,3-Dichlorobenzene	<4.2	ug/kg dry	EPA 8260C		
1,3-Dichloropropane	<4.2	ug/kg dry	EPA 8260C		
1,4-Dichlorobenzene	<4.2	ug/kg dry	EPA 8260C		
2,2-Dichloropropane	<4.2	ug/kg dry	EPA 8260C		
2-Butanone	2.9	ug/kg dry	EPA 8260C		J
2-Chloroethyl Vinyl Ether	<17	ug/kg dry	EPA 8260C		
2-Chlorotoluene	<4.2	ug/kg dry	EPA 8260C		
2-Hexanone	<4.2	ug/kg dry	EPA 8260C		
4-Chlorotoluene	<4.2	ug/kg dry	EPA 8260C		
4-Methyl-2-Pentanone	<4.2	ug/kg dry	EPA 8260C		
Acetone	9.5	ug/kg dry	EPA 8260C		E
Acrolein	<8.5	ug/kg dry	EPA 8260C		
Acrylonitrile	<4.2	ug/kg dry	EPA 8260C		
Benzene	<4.2	ug/kg dry	EPA 8260C		
Bromobenzene	<4.2	ug/kg dry	EPA 8260C		
Bromochloromethane	<4.2	ug/kg dry	EPA 8260C		
Bromodichloromethane	<4.2	ug/kg dry	EPA 8260C		
Bromoform	<4.2	ug/kg dry	EPA 8260C		
Bromomethane	<4.2	ug/kg dry	EPA 8260C		
Carbon Disulfide	<4.2	ug/kg dry	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-002
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
Carbon Tetrachloride	<4.2	ug/kg dry	EPA 8260C		
Chlorobenzene	<4.2	ug/kg dry	EPA 8260C		
Chloroethane	<4.2	ug/kg dry	EPA 8260C		
Chloroform	<4.2	ug/kg dry	EPA 8260C		
Chloromethane	<4.2	ug/kg dry	EPA 8260C		
cis-1,2-Dichloroethene	<4.2	ug/kg dry	EPA 8260C		
cis-1,3-Dichloropropene	<4.2	ug/kg dry	EPA 8260C		
Dibromochloromethane	<4.2	ug/kg dry	EPA 8260C		
Dibromomethane	<4.2	ug/kg dry	EPA 8260C		
Dichlorodifluoromethane	<4.2	ug/kg dry	EPA 8260C		
Ethyl Benzene	<4.2	ug/kg dry	EPA 8260C		
Hexachlorobutadiene	<4.2	ug/kg dry	EPA 8260C		
Isopropylbenzene	<4.2	ug/kg dry	EPA 8260C		
Methyl tert-butyl ether	<4.2	ug/kg dry	EPA 8260C		
Methylene Chloride	<8.5	ug/kg dry	EPA 8260C		
Naphthalene	5.4	ug/kg dry	EPA 8260C		J
n-Butylbenzene	<4.2	ug/kg dry	EPA 8260C		
n-Propylbenzene	<4.2	ug/kg dry	EPA 8260C		
p-Isopropyltoluene	<4.2	ug/kg dry	EPA 8260C		
sec-Butylbenzene	<4.2	ug/kg dry	EPA 8260C		
Styrene	<4.2	ug/kg dry	EPA 8260C		
tert-Butylbenzene	<4.2	ug/kg dry	EPA 8260C		
Tetrachloroethene	<4.2	ug/kg dry	EPA 8260C		
Toluene	<4.2	ug/kg dry	EPA 8260C		
trans-1,2-Dichloroethene	<4.2	ug/kg dry	EPA 8260C		
trans-1,3-Dichloropropene	<4.2	ug/kg dry	EPA 8260C		
Trichloroethene	<4.2	ug/kg dry	EPA 8260C		
Trichlorofluoromethane	<4.2	ug/kg dry	EPA 8260C		
Vinyl Chloride	<4.2	ug/kg dry	EPA 8260C		
Xylenes, Total	<13	ug/kg dry	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-002
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	92.4	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
E Value above quantitation range
J Estimate value below reporting limit

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-003
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point K
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
M,p-xylene	<10	ug/kg dry	EPA 8260C		E
O-xylene	<5.0	ug/kg dry	EPA 8260C		
1,1,1,2-Tetrachloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1,1-Trichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1,2,2-Tetrachloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1,2-Trichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1,2-Trifluoro-1,2,2-Trichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1-Dichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1-Dichloroethene	<5.0	ug/kg dry	EPA 8260C		
1,1-Dichloropropene	<5.0	ug/kg dry	EPA 8260C		
1,2,3-Trichlorobenzene	<5.0	ug/kg dry	EPA 8260C		
1,2,3-trichloropropane	<5.0	ug/kg dry	EPA 8260C		
1,2,4-Trichlorobenzene	51	ug/kg dry	EPA 8260C		
1,2,4-Trimethylbenzene	8.0	ug/kg dry	EPA 8260C		
1,2-Dibromo-3-chloropropane	<5.0	ug/kg dry	EPA 8260C		
1,2-Dibromoethane	<5.0	ug/kg dry	EPA 8260C		
1,2-Dichlorobenzene	<5.0	ug/kg dry	EPA 8260C		
1,2-Dichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,2-Dichloropropane	<5.0	ug/kg dry	EPA 8260C		
1,3,5-Trimethylbenzene	3.7	ug/kg dry	EPA 8260C		J
1,3-Dichlorobenzene	<5.0	ug/kg dry	EPA 8260C		
1,3-Dichloropropane	<5.0	ug/kg dry	EPA 8260C		
1,4-Dichlorobenzene	<5.0	ug/kg dry	EPA 8260C		
2,2-Dichloropropane	<5.0	ug/kg dry	EPA 8260C		
2-Butanone	9.1	ug/kg dry	EPA 8260C		
2-Chloroethyl Vinyl Ether	<20	ug/kg dry	EPA 8260C		
2-Chlorotoluene	<5.0	ug/kg dry	EPA 8260C		
2-Hexanone	<5.0	ug/kg dry	EPA 8260C		
4-Chlorotoluene	<5.0	ug/kg dry	EPA 8260C		
4-Methyl-2-Pentanone	<5.0	ug/kg dry	EPA 8260C		
Acetone	30	ug/kg dry	EPA 8260C		E
Acrolein	<10	ug/kg dry	EPA 8260C		
Acrylonitrile	<5.0	ug/kg dry	EPA 8260C		
Benzene	<5.0	ug/kg dry	EPA 8260C		
Bromobenzene	<5.0	ug/kg dry	EPA 8260C		
Bromochloromethane	<5.0	ug/kg dry	EPA 8260C		
Bromodichloromethane	<5.0	ug/kg dry	EPA 8260C		
Bromoform	<5.0	ug/kg dry	EPA 8260C		
Bromomethane	<5.0	ug/kg dry	EPA 8260C		
Carbon Disulfide	<5.0	ug/kg dry	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-003
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point K
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
Carbon Tetrachloride	<5.0	ug/kg dry	EPA 8260C		
Chlorobenzene	<5.0	ug/kg dry	EPA 8260C		
Chloroethane	<5.0	ug/kg dry	EPA 8260C		
Chloroform	<5.0	ug/kg dry	EPA 8260C		
Chloromethane	<5.0	ug/kg dry	EPA 8260C		
cis-1,2-Dichloroethene	<5.0	ug/kg dry	EPA 8260C		
cis-1,3-Dichloropropene	<5.0	ug/kg dry	EPA 8260C		
Dibromochloromethane	<5.0	ug/kg dry	EPA 8260C		
Dibromomethane	<5.0	ug/kg dry	EPA 8260C		
Dichlorodifluoromethane	<5.0	ug/kg dry	EPA 8260C		
Ethyl Benzene	<5.0	ug/kg dry	EPA 8260C		
Hexachlorobutadiene	<5.0	ug/kg dry	EPA 8260C		
Isopropylbenzene	3.2	ug/kg dry	EPA 8260C		J
Methyl tert-butyl ether	<5.0	ug/kg dry	EPA 8260C		
Methylene Chloride	<10	ug/kg dry	EPA 8260C		
Naphthalene	38	ug/kg dry	EPA 8260C		
n-Butylbenzene	<5.0	ug/kg dry	EPA 8260C		
n-Propylbenzene	<5.0	ug/kg dry	EPA 8260C		
p-Isopropyltoluene	<5.0	ug/kg dry	EPA 8260C		
sec-Butylbenzene	16	ug/kg dry	EPA 8260C		
Styrene	<5.0	ug/kg dry	EPA 8260C		
tert-Butylbenzene	5.2	ug/kg dry	EPA 8260C		
Tetrachloroethene	<5.0	ug/kg dry	EPA 8260C		
Toluene	3.2	ug/kg dry	EPA 8260C		J
trans-1,2-Dichloroethene	<5.0	ug/kg dry	EPA 8260C		
trans-1,3-Dichloropropene	<5.0	ug/kg dry	EPA 8260C		
Trichloroethene	<5.0	ug/kg dry	EPA 8260C		
Trichlorofluoromethane	<5.0	ug/kg dry	EPA 8260C		
Vinyl Chloride	<5.0	ug/kg dry	EPA 8260C		
Xylenes, Total	<15	ug/kg dry	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-003
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point K
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	86.2	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
E Value above quantitation range
J Estimate value below reporting limit

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-004
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point M
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
O-xylene	<5.0	ug/kg dry	EPA 8260C		
M,p-xylene	<10	ug/kg dry	EPA 8260C		
1,1,1,2-Tetrachloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1,1-Trichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1,2,2-Tetrachloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1,2-Trichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1,2-Trifluoro-1,2,2-Trichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1-Dichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,1-Dichloroethene	<5.0	ug/kg dry	EPA 8260C		
1,1-Dichloropropene	<5.0	ug/kg dry	EPA 8260C		
1,2,3-Trichlorobenzene	<5.0	ug/kg dry	EPA 8260C		
1,2,3-trichloropropane	<5.0	ug/kg dry	EPA 8260C		
1,2,4-Trichlorobenzene	<5.0	ug/kg dry	EPA 8260C		
1,2,4-Trimethylbenzene	<5.0	ug/kg dry	EPA 8260C		
1,2-Dibromo-3-chloropropane	<5.0	ug/kg dry	EPA 8260C		
1,2-Dibromoethane	<5.0	ug/kg dry	EPA 8260C		
1,2-Dichlorobenzene	<5.0	ug/kg dry	EPA 8260C		
1,2-Dichloroethane	<5.0	ug/kg dry	EPA 8260C		
1,2-Dichloropropane	<5.0	ug/kg dry	EPA 8260C		
1,3,5-Trimethylbenzene	<5.0	ug/kg dry	EPA 8260C		
1,3-Dichlorobenzene	<5.0	ug/kg dry	EPA 8260C		
1,3-Dichloropropane	<5.0	ug/kg dry	EPA 8260C		
1,4-Dichlorobenzene	<5.0	ug/kg dry	EPA 8260C		
2,2-Dichloropropane	<5.0	ug/kg dry	EPA 8260C		
2-Butanone	12	ug/kg dry	EPA 8260C		
2-Chloroethyl Vinyl Ether	<20	ug/kg dry	EPA 8260C		
2-Chlorotoluene	<5.0	ug/kg dry	EPA 8260C		
2-Hexanone	<5.0	ug/kg dry	EPA 8260C		
4-Chlorotoluene	<5.0	ug/kg dry	EPA 8260C		
4-Methyl-2-Pentanone	<5.0	ug/kg dry	EPA 8260C		
Acetone	62	ug/kg dry	EPA 8260C		E
Acrolein	<10	ug/kg dry	EPA 8260C		
Acrylonitrile	<5.0	ug/kg dry	EPA 8260C		
Benzene	<5.0	ug/kg dry	EPA 8260C		
Bromobenzene	<5.0	ug/kg dry	EPA 8260C		
Bromochloromethane	<5.0	ug/kg dry	EPA 8260C		
Bromodichloromethane	<5.0	ug/kg dry	EPA 8260C		
Bromoform	<5.0	ug/kg dry	EPA 8260C		
Bromomethane	<5.0	ug/kg dry	EPA 8260C		
Carbon Disulfide	<5.0	ug/kg dry	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-004
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point M
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Volatiles by Method 8260					
Carbon Tetrachloride	<5.0	ug/kg dry	EPA 8260C		
Chlorobenzene	<5.0	ug/kg dry	EPA 8260C		
Chloroethane	<5.0	ug/kg dry	EPA 8260C		
Chloroform	<5.0	ug/kg dry	EPA 8260C		
Chloromethane	<5.0	ug/kg dry	EPA 8260C		
cis-1,2-Dichloroethene	<5.0	ug/kg dry	EPA 8260C		
cis-1,3-Dichloropropene	<5.0	ug/kg dry	EPA 8260C		
Dibromochloromethane	<5.0	ug/kg dry	EPA 8260C		
Dibromomethane	<5.0	ug/kg dry	EPA 8260C		
Dichlorodifluoromethane	<5.0	ug/kg dry	EPA 8260C		
Ethyl Benzene	<5.0	ug/kg dry	EPA 8260C		
Hexachlorobutadiene	<5.0	ug/kg dry	EPA 8260C		
Isopropylbenzene	<5.0	ug/kg dry	EPA 8260C		
Methyl tert-butyl ether	<5.0	ug/kg dry	EPA 8260C		
Methylene Chloride	<10	ug/kg dry	EPA 8260C		
Naphthalene	<10	ug/kg dry	EPA 8260C		
n-Butylbenzene	<5.0	ug/kg dry	EPA 8260C		
n-Propylbenzene	<5.0	ug/kg dry	EPA 8260C		
p-Isopropyltoluene	<5.0	ug/kg dry	EPA 8260C		
sec-Butylbenzene	<5.0	ug/kg dry	EPA 8260C		
Styrene	<5.0	ug/kg dry	EPA 8260C		
tert-Butylbenzene	<5.0	ug/kg dry	EPA 8260C		
Tetrachloroethene	<5.0	ug/kg dry	EPA 8260C		
Toluene	<5.0	ug/kg dry	EPA 8260C		
trans-1,2-Dichloroethene	<5.0	ug/kg dry	EPA 8260C		
trans-1,3-Dichloropropene	<5.0	ug/kg dry	EPA 8260C		
Trichloroethene	<5.0	ug/kg dry	EPA 8260C		
Trichlorofluoromethane	<5.0	ug/kg dry	EPA 8260C		
Vinyl Chloride	<5.0	ug/kg dry	EPA 8260C		
Xylenes, Total	<15	ug/kg dry	EPA 8260C		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-004
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point M
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	84.9	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
E Value above quantitation range

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-005
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point C
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Volatiles by Method 8260					
1,1-Dichloroethene	<50	ug/L	EPA 8260C/1311	<=0.70	
1,2-Dichloroethane	<50	ug/L	EPA 8260C/1311	<=0.50	
1,4-Dichlorobenzene	<50	ug/L	EPA 8260C/1311	<=7.50	
2-Butanone	<50	ug/L	EPA 8260C/1311	<=200.00	
Benzene	<50	ug/L	EPA 8260C/1311	<=0.50	
Carbon tetrachloride	<50	ug/L	EPA 8260C/1311	<=0.50	
Chlorobenzene	<50	ug/L	EPA 8260C/1311	<=100.00	
Chloroform	<50	ug/L	EPA 8260C/1311	<=6.00	
Tetrachloroethene	<50	ug/L	EPA 8260C/1311	<=0.70	
Trichloroethene	<50	ug/L	EPA 8260C/1311	<=0.50	
Vinyl chloride	<50	ug/L	EPA 8260C/1311	<=0.20	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-006
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Volatiles by Method 8260					
1,1-Dichloroethene	<50	ug/L	EPA 8260C/1311	<=0.70	
1,2-Dichloroethane	<50	ug/L	EPA 8260C/1311	<=0.50	
1,4-Dichlorobenzene	<50	ug/L	EPA 8260C/1311	<=7.50	
2-Butanone	<50	ug/L	EPA 8260C/1311	<=200.00	
Benzene	<50	ug/L	EPA 8260C/1311	<=0.50	
Carbon tetrachloride	<50	ug/L	EPA 8260C/1311	<=0.50	
Chlorobenzene	<50	ug/L	EPA 8260C/1311	<=100.00	
Chloroform	<50	ug/L	EPA 8260C/1311	<=6.00	
Tetrachloroethene	<50	ug/L	EPA 8260C/1311	<=0.70	
Trichloroethene	<50	ug/L	EPA 8260C/1311	<=0.50	
Vinyl chloride	<50	ug/L	EPA 8260C/1311	<=0.20	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-007
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: test point K
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Volatiles by Method 8260					
1,1-Dichloroethene	<50	ug/L	EPA 8260C/1311	<=0.70	
1,2-Dichloroethane	<50	ug/L	EPA 8260C/1311	<=0.50	
1,4-Dichlorobenzene	<50	ug/L	EPA 8260C/1311	<=7.50	
2-Butanone	<50	ug/L	EPA 8260C/1311	<=200.00	
Benzene	<50	ug/L	EPA 8260C/1311	<=0.50	
Carbon tetrachloride	<50	ug/L	EPA 8260C/1311	<=0.50	
Chlorobenzene	<50	ug/L	EPA 8260C/1311	<=100.00	
Chloroform	<50	ug/L	EPA 8260C/1311	<=6.00	
Tetrachloroethene	<50	ug/L	EPA 8260C/1311	<=0.70	
Trichloroethene	<50	ug/L	EPA 8260C/1311	<=0.50	
Vinyl chloride	<50	ug/L	EPA 8260C/1311	<=0.20	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-008
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: test point M
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Volatiles by Method 8260					
1,1-Dichloroethene	<50	ug/L	EPA 8260C/1311	<=0.70	
1,2-Dichloroethane	<50	ug/L	EPA 8260C/1311	<=0.50	
1,4-Dichlorobenzene	<50	ug/L	EPA 8260C/1311	<=7.50	
2-Butanone	<50	ug/L	EPA 8260C/1311	<=200.00	
Benzene	<50	ug/L	EPA 8260C/1311	<=0.50	
Carbon tetrachloride	<50	ug/L	EPA 8260C/1311	<=0.50	
Chlorobenzene	<50	ug/L	EPA 8260C/1311	<=100.00	
Chloroform	<50	ug/L	EPA 8260C/1311	<=6.00	
Tetrachloroethene	<50	ug/L	EPA 8260C/1311	<=0.70	
Trichloroethene	<50	ug/L	EPA 8260C/1311	<=0.50	
Vinyl chloride	<50	ug/L	EPA 8260C/1311	<=0.20	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-009
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Semivolatiles by Method 8270					
Dibenzo(a,h)anthracene	412	ug/kg dry	EPA 8270D		CCV-E
Aniline	<371	ug/kg dry	EPA 8270D		
4-chloro-3-methylphenol	<92.7	ug/kg dry	EPA 8270D		
1,2,4-Trichlorobenzene	<92.7	ug/kg dry	EPA 8270D		
1,2-Dichlorobenzene	<92.7	ug/kg dry	EPA 8270D		
1,2-Diphenylhydrazine	<92.7	ug/kg dry	EPA 8270D		
1,3-Dichlorobenzene	<92.7	ug/kg dry	EPA 8270D		
1,4-Dichlorobenzene	<92.7	ug/kg dry	EPA 8270D		
2,4,5-Trichlorophenol	<92.7	ug/kg dry	EPA 8270D		
2,4,6-Trichlorophenol	<92.7	ug/kg dry	EPA 8270D		
2,4-Dichlorophenol	<92.7	ug/kg dry	EPA 8270D		
2,4-Dimethylphenol	<92.7	ug/kg dry	EPA 8270D		
2,4-Dinitrophenol	<185	ug/kg dry	EPA 8270D		
2,4-Dinitrotoluene	<92.7	ug/kg dry	EPA 8270D		
2,6-Dinitrotoluene	<92.7	ug/kg dry	EPA 8270D		
2-Chloronaphthalene	<92.7	ug/kg dry	EPA 8270D		
2-Chlorophenol	<92.7	ug/kg dry	EPA 8270D		
2-Methylnaphthalene	659	ug/kg dry	EPA 8270D		
2-Methylphenol	<92.7	ug/kg dry	EPA 8270D		
2-Nitrophenol	<92.7	ug/kg dry	EPA 8270D		
3,3-Dichlorobenzidine	<92.7	ug/kg dry	EPA 8270D		
3/4-Methylphenol	<92.7	ug/kg dry	EPA 8270D		
3-Nitroaniline	<185	ug/kg dry	EPA 8270D		
4,6-Dinitro-2-methylphenol	<185	ug/kg dry	EPA 8270D		
4-Bromophenyl-phenylether	<92.7	ug/kg dry	EPA 8270D		
4-Chloroaniline	<92.7	ug/kg dry	EPA 8270D		
4-Chlorophenyl-phenylether	<92.7	ug/kg dry	EPA 8270D		
4-Nitroaniline	<185	ug/kg dry	EPA 8270D		
4-Nitrophenol	<185	ug/kg dry	EPA 8270D		
Acenaphthene	401	ug/kg dry	EPA 8270D		
Acenaphthylene	444	ug/kg dry	EPA 8270D		
Anthracene	2550	ug/kg dry	EPA 8270D		
Benzidine	<371	ug/kg dry	EPA 8270D		
Benzo(a)anthracene	2610	ug/kg dry	EPA 8270D		
Benzo(a)pyrene	1180	ug/kg dry	EPA 8270D		CCV-E
Benzo(b)fluoranthene	1810	ug/kg dry	EPA 8270D		
Benzo(g,h,i)perylene	924	ug/kg dry	EPA 8270D		CCV-E
Benzo(k)fluoranthene	1320	ug/kg dry	EPA 8270D		CCV-E
Bis(2-chloroethoxy)methane	<92.7	ug/kg dry	EPA 8270D		
Bis(2-chloroethyl)ether	<92.7	ug/kg dry	EPA 8270D		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-009
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Semivolatiles by Method 8270					
Bis(2-chloroisopropyl)ether	<92.7	ug/kg dry	EPA 8270D		
Bis(2-ethylhexyl)phthalate	<92.7	ug/kg dry	EPA 8270D		
Butyl benzyl phthalate	<92.7	ug/kg dry	EPA 8270D		
Chrysene	3980	ug/kg dry	EPA 8270D		
Dibenzofuran	1600	ug/kg dry	EPA 8270D		
Diethyl phthalate	<92.7	ug/kg dry	EPA 8270D		
Dimethyl phthalate	<92.7	ug/kg dry	EPA 8270D		
Di-n-butyl phthalate	<92.7	ug/kg dry	EPA 8270D		
Di-n-octyl phthalate	<92.7	ug/kg dry	EPA 8270D		
Fluoranthene	12300	ug/kg dry	EPA 8270D		
Fluorene	1800	ug/kg dry	EPA 8270D		
Hexachlorobenzene	<92.7	ug/kg dry	EPA 8270D		
Hexachlorobutadiene	<92.7	ug/kg dry	EPA 8270D		
Hexachlorocyclopentadiene	<92.7	ug/kg dry	EPA 8270D		
Hexachloroethane	<92.7	ug/kg dry	EPA 8270D		
Indeno(1,2,3-cd)pyrene	1200	ug/kg dry	EPA 8270D		CCV-E
Isophorone	<92.7	ug/kg dry	EPA 8270D		
Naphthalene	516	ug/kg dry	EPA 8270D		
Nitrobenzene	<92.7	ug/kg dry	EPA 8270D		
N-Nitrosodimethylamine	<92.7	ug/kg dry	EPA 8270D		
N-Nitroso-di-n-propylamine	<92.7	ug/kg dry	EPA 8270D		
N-Nitrosodiphenylamine	<92.7	ug/kg dry	EPA 8270D		
Pentachlorophenol	<92.7	ug/kg dry	EPA 8270D		
Phenanthrene	12800	ug/kg dry	EPA 8270D		
Phenol	<92.7	ug/kg dry	EPA 8270D		
Pyrene	5720	ug/kg dry	EPA 8270D		
Pyridine	<371	ug/kg dry	EPA 8270D		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-009
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	90.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
-
C Calibration acceptability criteria exceeded for this analyte
E Value above quantitation range
V

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-010
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Semivolatiles by Method 8270					
1,4-Dichlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=7.50	
2,4,5-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=400.00	
2,4,6-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=2.00	
2,4-Dinitrotoluene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
3/4-Methylphenol	<20.0	ug/L	EPA 8270D/1311	<=200.00	
2-Methylphenol	<10.0	ug/L	EPA 8270D/1311	<=200.00	
Cresols, Total	<30.0	ug/L	EPA 8270D/1311	<=200.00	
Hexachlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
Hexachlorobutadiene	<10.0	ug/L	EPA 8270D/1311	<=0.50	
Hexachloroethane	<10.0	ug/L	EPA 8270D/1311	<=3.00	
Nitrobenzene	<10.0	ug/L	EPA 8270D/1311	<=2.00	
Pentachlorophenol	<10.0	ug/L	EPA 8270D/1311	<=100.00	
Pyridine	<10.0	ug/L	EPA 8270D/1311	<=5.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-011
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
(Total) RCRA Metals					
Arsenic as As	7.72	mg/kg dry	EPA 6010C		
Barium as Ba	57.90	mg/kg dry	EPA 6010C		
Cadmium as Cd	1.51	mg/kg dry	EPA 6010C		
Chromium as Cr	13.70	mg/kg dry	EPA 6010C		
Lead as Pb	105.00	mg/kg dry	EPA 6010C		
Mercury as Hg	0.47	mg/kg dry	EPA 7473		
Selenium as Se	3.22	mg/kg dry	EPA 6010C		
Silver as Ag	<0.56	mg/kg dry	EPA 6010C		
Copper Analysis					
Copper As Cu	39.1	mg/kg dry	EPA 6010C		
Nickel as Ni Analysis					
Nickel As Ni	23.1	mg/kg dry	EPA 6010C		
Zinc Analysis					
Zinc As Zn	63.0	mg/kg dry	EPA 6010C		
Results of Analysis					
Total Solids	90.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-012
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) RCRA Metals					
Arsenic as As	<0.004	mg/L	EPA 6010C/1311	<=5.00	
Barium as Ba	0.380	mg/L	EPA 6010C/1311	<=100.00	
Cadmium as Cd	<0.003	mg/L	EPA 6010C/1311	<=1.00	
Chromium as Cr	<0.005	mg/L	EPA 6010C/1311	<=5.00	
Lead as Pb	0.048	mg/L	EPA 6010C/1311	<=5.00	
Mercury as Hg	<0.000200	mg/L	EPA 7473/1311	<=0.20	
Selenium as Se	0.018	mg/L	EPA 6010C/1311	<=1.00	
Silver as Ag	<0.005	mg/L	EPA 6010C/1311	<=5.00	
TCLP Copper					
Copper As Cu	0.00841	mg/L	EPA 6010C/1311		
TCLP Nickel					
Nickel As Ni	0.0210	mg/L	EPA 6010C/1311		
TCLP Zinc					
Zinc As Zn	0.0863	mg/L	EPA 6010C/1311		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-013
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Herbicides Analysis					
2,4-D	<5.00	ug/L	EPA 8151A m/1311	<=10.00	
Silvex	<5.00	ug/L	EPA 8151A m/1311	<=1.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-014
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Pesticides Analysis					
Chlordane	<0.0516	ug/L	EPA 8081B/1311	<=0.03	
Endrin	<0.0129	ug/L	EPA 8081B/1311	<=0.02	
Heptachlor	<0.0129	ug/L	EPA 8081B/1311	<=0.10	
Heptachlor Epoxide	<0.0129	ug/L	EPA 8081B/1311	<=0.01	
Lindane	<0.0129	ug/L	EPA 8081B/1311	<=0.40	
Methoxychlor	<0.0645	ug/L	EPA 8081B/1311	<=10.00	
Toxaphene	<0.65	ug/L	EPA 8081B/1311	<0.50	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-015
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Ignitability Analysis					
Ignitability	Non-ignit		EPA 1030 P		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-016
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Reactive Cyanide Analysis					
Cyanide As HCN Releasable	<0.250	mg/Kg	EPA SW-846 Ch 7.3.3		
Reactive Sulfide Analysis					
Sulfide As H2S Releasable	<15.0	mg/Kg	EPA SW-846 Ch 7.3.4		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-017
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point A thru D
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Analysis for pH (Lab) and Temperature					
Ph	9.48	pH units	EPA 9045D		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: pH analyzed outside the analytical holding time

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-018
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Semivolatiles by Method 8270					
Dibenzo(a,h)anthracene	<91.6	ug/kg dry	EPA 8270D		
Aniline	<367	ug/kg dry	EPA 8270D		
4-chloro-3-methylphenol	<91.6	ug/kg dry	EPA 8270D		
1,2,4-Trichlorobenzene	<91.6	ug/kg dry	EPA 8270D		
1,2-Dichlorobenzene	<91.6	ug/kg dry	EPA 8270D		
1,2-Diphenylhydrazine	<91.6	ug/kg dry	EPA 8270D		
1,3-Dichlorobenzene	<91.6	ug/kg dry	EPA 8270D		
1,4-Dichlorobenzene	<91.6	ug/kg dry	EPA 8270D		
2,4,5-Trichlorophenol	<91.6	ug/kg dry	EPA 8270D		
2,4,6-Trichlorophenol	<91.6	ug/kg dry	EPA 8270D		
2,4-Dichlorophenol	<91.6	ug/kg dry	EPA 8270D		
2,4-Dimethylphenol	<91.6	ug/kg dry	EPA 8270D		
2,4-Dinitrophenol	<183	ug/kg dry	EPA 8270D		
2,4-Dinitrotoluene	<91.6	ug/kg dry	EPA 8270D		
2,6-Dinitrotoluene	<91.6	ug/kg dry	EPA 8270D		
2-Chloronaphthalene	<91.6	ug/kg dry	EPA 8270D		
2-Chlorophenol	<91.6	ug/kg dry	EPA 8270D		
2-Methylnaphthalene	<91.6	ug/kg dry	EPA 8270D		
2-Methylphenol	<91.6	ug/kg dry	EPA 8270D		
2-Nitrophenol	<91.6	ug/kg dry	EPA 8270D		
3,3-Dichlorobenzidine	<91.6	ug/kg dry	EPA 8270D		
3/4-Methylphenol	<91.6	ug/kg dry	EPA 8270D		
3-Nitroaniline	<183	ug/kg dry	EPA 8270D		
4,6-Dinitro-2-methylphenol	<183	ug/kg dry	EPA 8270D		
4-Bromophenyl-phenylether	<91.6	ug/kg dry	EPA 8270D		
4-Chloroaniline	<91.6	ug/kg dry	EPA 8270D		
4-Chlorophenyl-phenylether	<91.6	ug/kg dry	EPA 8270D		
4-Nitroaniline	<183	ug/kg dry	EPA 8270D		
4-Nitrophenol	<183	ug/kg dry	EPA 8270D		
Acenaphthene	<91.6	ug/kg dry	EPA 8270D		
Acenaphthylene	<91.6	ug/kg dry	EPA 8270D		
Anthracene	60.8	ug/kg dry	EPA 8270D		J
Benzidine	<367	ug/kg dry	EPA 8270D		
Benzo(a)anthracene	122	ug/kg dry	EPA 8270D		
Benzo(a)pyrene	<91.6	ug/kg dry	EPA 8270D		
Benzo(b)fluoranthene	<91.6	ug/kg dry	EPA 8270D		
Benzo(g,h,i)perylene	<91.6	ug/kg dry	EPA 8270D		
Benzo(k)fluoranthene	<91.6	ug/kg dry	EPA 8270D		
Bis(2-chloroethoxy)methane	<91.6	ug/kg dry	EPA 8270D		
Bis(2-chloroethyl)ether	<91.6	ug/kg dry	EPA 8270D		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-018
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Semivolatiles by Method 8270					
Bis(2-chloroisopropyl)ether	<91.6	ug/kg dry	EPA 8270D		
Bis(2-ethylhexyl)phthalate	<91.6	ug/kg dry	EPA 8270D		
Butyl benzyl phthalate	<91.6	ug/kg dry	EPA 8270D		
Chrysene	148	ug/kg dry	EPA 8270D		
Dibenzofuran	<91.6	ug/kg dry	EPA 8270D		
Diethyl phthalate	<91.6	ug/kg dry	EPA 8270D		
Dimethyl phthalate	<91.6	ug/kg dry	EPA 8270D		
Di-n-butyl phthalate	<91.6	ug/kg dry	EPA 8270D		
Di-n-octyl phthalate	<91.6	ug/kg dry	EPA 8270D		
Fluoranthene	366	ug/kg dry	EPA 8270D		
Fluorene	<91.6	ug/kg dry	EPA 8270D		
Hexachlorobenzene	<91.6	ug/kg dry	EPA 8270D		
Hexachlorobutadiene	<91.6	ug/kg dry	EPA 8270D		
Hexachlorocyclopentadiene	<91.6	ug/kg dry	EPA 8270D		
Hexachloroethane	<91.6	ug/kg dry	EPA 8270D		
Indeno(1,2,3-cd)pyrene	<91.6	ug/kg dry	EPA 8270D		
Isophorone	<91.6	ug/kg dry	EPA 8270D		
Naphthalene	<91.6	ug/kg dry	EPA 8270D		
Nitrobenzene	<91.6	ug/kg dry	EPA 8270D		
N-Nitrosodimethylamine	<91.6	ug/kg dry	EPA 8270D		
N-Nitroso-di-n-propylamine	<91.6	ug/kg dry	EPA 8270D		
N-Nitrosodiphenylamine	<91.6	ug/kg dry	EPA 8270D		
Pentachlorophenol	<91.6	ug/kg dry	EPA 8270D		
Phenanthrene	218	ug/kg dry	EPA 8270D		
Phenol	<91.6	ug/kg dry	EPA 8270D		
Pyrene	359	ug/kg dry	EPA 8270D		
Pyridine	<367	ug/kg dry	EPA 8270D		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-018
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	91.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
J Estimate value below reporting limit

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-019
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Semivolatiles by Method 8270					
1,4-Dichlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=7.50	
2,4,5-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=400.00	
2,4,6-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=2.00	
2,4-Dinitrotoluene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
3/4-Methylphenol	<20.0	ug/L	EPA 8270D/1311	<=200.00	
2-Methylphenol	<10.0	ug/L	EPA 8270D/1311	<=200.00	
Cresols, Total	<30.0	ug/L	EPA 8270D/1311	<=200.00	
Hexachlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
Hexachlorobutadiene	<10.0	ug/L	EPA 8270D/1311	<=0.50	
Hexachloroethane	<10.0	ug/L	EPA 8270D/1311	<=3.00	
Nitrobenzene	<10.0	ug/L	EPA 8270D/1311	<=2.00	
Pentachlorophenol	<10.0	ug/L	EPA 8270D/1311	<=100.00	
Pyridine	<10.0	ug/L	EPA 8270D/1311	<=5.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-020
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
(Total) RCRA Metals					
Arsenic as As	5.98	mg/kg dry	EPA 6010C		
Barium as Ba	42.80	mg/kg dry	EPA 6010C		
Cadmium as Cd	0.41	mg/kg dry	EPA 6010C		
Chromium as Cr	12.70	mg/kg dry	EPA 6010C		
Lead as Pb	85.80	mg/kg dry	EPA 6010C		
Mercury as Hg	0.31	mg/kg dry	EPA 7473		
Selenium as Se	2.97	mg/kg dry	EPA 6010C		
Silver as Ag	<0.55	mg/kg dry	EPA 6010C		
Copper Analysis					
Copper As Cu	45.9	mg/kg dry	EPA 6010C		
Nickel as Ni Analysis					
Nickel As Ni	25.2	mg/kg dry	EPA 6010C		
Zinc Analysis					
Zinc As Zn	65.2	mg/kg dry	EPA 6010C		
Results of Analysis					
Total Solids	91.0	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-021
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) RCRA Metals					
Arsenic as As	<0.004	mg/L	EPA 6010C/1311	<=5.00	
Barium as Ba	0.321	mg/L	EPA 6010C/1311	<=100.00	
Cadmium as Cd	<0.003	mg/L	EPA 6010C/1311	<=1.00	
Chromium as Cr	<0.005	mg/L	EPA 6010C/1311	<=5.00	
Lead as Pb	0.055	mg/L	EPA 6010C/1311	<=5.00	
Mercury as Hg	<0.000200	mg/L	EPA 7473/1311	<=0.20	
Selenium as Se	0.016	mg/L	EPA 6010C/1311	<=1.00	
Silver as Ag	<0.005	mg/L	EPA 6010C/1311	<=5.00	
TCLP Copper					
Copper As Cu	0.00310	mg/L	EPA 6010C/1311		
TCLP Nickel					
Nickel As Ni	0.0795	mg/L	EPA 6010C/1311		
TCLP Zinc					
Zinc As Zn	0.146	mg/L	EPA 6010C/1311		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-022
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Herbicides Analysis					
2,4-D	<5.00	ug/L	EPA 8151A m/1311	<=10.00	
Silvex	<5.00	ug/L	EPA 8151A m/1311	<=1.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-023
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Pesticides Analysis					
Chlordane	<0.0533	ug/L	EPA 8081B/1311	<=0.03	
Endrin	<0.0133	ug/L	EPA 8081B/1311	<=0.02	
Heptachlor	<0.0133	ug/L	EPA 8081B/1311	<=0.10	
Heptachlor Epoxide	<0.0133	ug/L	EPA 8081B/1311	<=0.01	
Lindane	<0.0133	ug/L	EPA 8081B/1311	<=0.40	
Methoxychlor	<0.07	ug/L	EPA 8081B/1311	<=10.00	
Toxaphene	<0.67	ug/L	EPA 8081B/1311	<0.50	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-024
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Ignitability Analysis					
Ignitability	Non-Ignit		EPA 1030 P		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-025
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Reactive Cyanide Analysis					
Cyanide As HCN Releasable	<0.250	mg/Kg	EPA SW-846 Ch 7.3.3		
Reactive Sulfide Analysis					
Sulfide As H2S Releasable	<15.0	mg/Kg	EPA SW-846 Ch 7.3.4		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-026
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point E thru H
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Analysis for pH (Lab) and Temperature					
Ph	8.80	pH units	EPA 9045D		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: pH analyzed outside the analytical holding time

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-027
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Semivolatiles by Method 8270					
Dibenzo(a,h)anthracene	1140	ug/kg dry	EPA 8270D		
Aniline	<390	ug/kg dry	EPA 8270D		
4-chloro-3-methylphenol	<97.3	ug/kg dry	EPA 8270D		
1,2,4-Trichlorobenzene	2090	ug/kg dry	EPA 8270D		
1,2-Dichlorobenzene	<97.3	ug/kg dry	EPA 8270D		
1,2-Diphenylhydrazine	<97.3	ug/kg dry	EPA 8270D		
1,3-Dichlorobenzene	<97.3	ug/kg dry	EPA 8270D		
1,4-Dichlorobenzene	<97.3	ug/kg dry	EPA 8270D		
2,4,5-Trichlorophenol	<97.3	ug/kg dry	EPA 8270D		
2,4,6-Trichlorophenol	<97.3	ug/kg dry	EPA 8270D		
2,4-Dichlorophenol	<97.3	ug/kg dry	EPA 8270D		
2,4-Dimethylphenol	<97.3	ug/kg dry	EPA 8270D		
2,4-Dinitrophenol	<194	ug/kg dry	EPA 8270D		
2,4-Dinitrotoluene	<97.3	ug/kg dry	EPA 8270D		
2,6-Dinitrotoluene	<97.3	ug/kg dry	EPA 8270D		
2-Chloronaphthalene	<97.3	ug/kg dry	EPA 8270D		
2-Chlorophenol	<97.3	ug/kg dry	EPA 8270D		
2-Methylnaphthalene	473	ug/kg dry	EPA 8270D		
2-Methylphenol	<97.3	ug/kg dry	EPA 8270D		
2-Nitrophenol	<97.3	ug/kg dry	EPA 8270D		
3,3-Dichlorobenzidine	<97.3	ug/kg dry	EPA 8270D		
3/4-Methylphenol	<97.3	ug/kg dry	EPA 8270D		
3-Nitroaniline	<194	ug/kg dry	EPA 8270D		
4,6-Dinitro-2-methylphenol	<194	ug/kg dry	EPA 8270D		
4-Bromophenyl-phenylether	<97.3	ug/kg dry	EPA 8270D		
4-Chloroaniline	<97.3	ug/kg dry	EPA 8270D		
4-Chlorophenyl-phenylether	<97.3	ug/kg dry	EPA 8270D		
4-Nitroaniline	<194	ug/kg dry	EPA 8270D		
4-Nitrophenol	<194	ug/kg dry	EPA 8270D		
Acenaphthene	1010	ug/kg dry	EPA 8270D		
Acenaphthylene	386	ug/kg dry	EPA 8270D		
Anthracene	2110	ug/kg dry	EPA 8270D		
Benzidine	<390	ug/kg dry	EPA 8270D		
Benzo(a)anthracene	2060	ug/kg dry	EPA 8270D		
Benzo(a)pyrene	1070	ug/kg dry	EPA 8270D		
Benzo(b)fluoranthene	2020	ug/kg dry	EPA 8270D		
Benzo(g,h,i)perylene	3300	ug/kg dry	EPA 8270D		
Benzo(k)fluoranthene	1790	ug/kg dry	EPA 8270D		
Bis(2-chloroethoxy)methane	<97.3	ug/kg dry	EPA 8270D		
Bis(2-chloroethyl)ether	<97.3	ug/kg dry	EPA 8270D		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-027
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Semivolatiles by Method 8270					
Bis(2-chloroisopropyl)ether	<97.3	ug/kg dry	EPA 8270D		
Bis(2-ethylhexyl)phthalate	91.0	ug/kg dry	EPA 8270D		J
Butyl benzyl phthalate	198	ug/kg dry	EPA 8270D		
Chrysene	4730	ug/kg dry	EPA 8270D		
Dibenzofuran	683	ug/kg dry	EPA 8270D		
Diethyl phthalate	<97.3	ug/kg dry	EPA 8270D		
Dimethyl phthalate	<97.3	ug/kg dry	EPA 8270D		
Di-n-butyl phthalate	<97.3	ug/kg dry	EPA 8270D		
Di-n-octyl phthalate	<97.3	ug/kg dry	EPA 8270D		
Fluoranthene	<97.3	ug/kg dry	EPA 8270D		
Fluorene	1310	ug/kg dry	EPA 8270D		
Hexachlorobenzene	<97.3	ug/kg dry	EPA 8270D		
Hexachlorobutadiene	<97.3	ug/kg dry	EPA 8270D		
Hexachlorocyclopentadiene	<97.3	ug/kg dry	EPA 8270D		
Hexachloroethane	<97.3	ug/kg dry	EPA 8270D		
Indeno(1,2,3-cd)pyrene	2320	ug/kg dry	EPA 8270D		
Isophorone	<97.3	ug/kg dry	EPA 8270D		
Naphthalene	806	ug/kg dry	EPA 8270D		
Nitrobenzene	<97.3	ug/kg dry	EPA 8270D		
N-Nitrosodimethylamine	<97.3	ug/kg dry	EPA 8270D		
N-Nitroso-di-n-propylamine	<97.3	ug/kg dry	EPA 8270D		
N-Nitrosodiphenylamine	<97.3	ug/kg dry	EPA 8270D		
Pentachlorophenol	<97.3	ug/kg dry	EPA 8270D		
Phenanthrene	5790	ug/kg dry	EPA 8270D		
Phenol	<97.3	ug/kg dry	EPA 8270D		
Pyrene	<97.3	ug/kg dry	EPA 8270D		
Pyridine	<390	ug/kg dry	EPA 8270D		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-027
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	85.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
J Estimate value below reporting limit

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-028
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Semivolatiles by Method 8270					
1,4-Dichlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=7.50	
2,4,5-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=400.00	
2,4,6-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=2.00	
2,4-Dinitrotoluene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
3/4-Methylphenol	<20.0	ug/L	EPA 8270D/1311	<=200.00	
2-Methylphenol	<10.0	ug/L	EPA 8270D/1311	<=200.00	
Cresols, Total	<30.0	ug/L	EPA 8270D/1311	<=200.00	
Hexachlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
Hexachlorobutadiene	<10.0	ug/L	EPA 8270D/1311	<=0.50	
Hexachloroethane	<10.0	ug/L	EPA 8270D/1311	<=3.00	
Nitrobenzene	<10.0	ug/L	EPA 8270D/1311	<=2.00	
Pentachlorophenol	<10.0	ug/L	EPA 8270D/1311	<=100.00	
Pyridine	<10.0	ug/L	EPA 8270D/1311	<=5.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-029
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
(Total) RCRA Metals					
Arsenic as As	13.70	mg/kg dry	EPA 6010C		
Barium as Ba	140.00	mg/kg dry	EPA 6010C		
Cadmium as Cd	1.62	mg/kg dry	EPA 6010C		
Chromium as Cr	10.40	mg/kg dry	EPA 6010C		
Lead as Pb	1110.00	mg/kg dry	EPA 6010C		
Mercury as Hg	0.39	mg/kg dry	EPA 7473		
Selenium as Se	<1.17	mg/kg dry	EPA 6010C		
Silver as Ag	<0.584	mg/kg dry	EPA 6010C		
Copper Analysis					
Copper As Cu	486	mg/kg dry	EPA 6010C		
Nickel as Ni Analysis					
Nickel As Ni	23.8	mg/kg dry	EPA 6010C		
Zinc Analysis					
Zinc As Zn	162	mg/kg dry	EPA 6010C		
Results of Analysis					
Total Solids	85.7	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-030
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) RCRA Metals					
Arsenic as As	<0.004	mg/L	EPA 6010C/1311	<=5.00	
Barium as Ba	0.531	mg/L	EPA 6010C/1311	<=100.00	
Cadmium as Cd	0.019	mg/L	EPA 6010C/1311	<=1.00	
Chromium as Cr	<0.005	mg/L	EPA 6010C/1311	<=5.00	
Lead as Pb	9.81	mg/L	EPA 6010C/1311	<=5.00	
Mercury as Hg	<0.000200	mg/L	EPA 7473/1311	<=0.20	
Selenium as Se	<0.010	mg/L	EPA 6010C/1311	<=1.00	
Silver as Ag	<0.005	mg/L	EPA 6010C/1311	<=5.00	
TCLP Nickel					
Nickel As Ni	0.0658	mg/L	EPA 6010C/1311		
TCLP Zinc					
Zinc As Zn	1.00	mg/L	EPA 6010C/1311		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-031
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Herbicides Analysis					
2,4-D	<5.00	ug/L	EPA 8151A m/1311	<=10.00	
Silvex	<5.00	ug/L	EPA 8151A m/1311	<=1.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-032
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Pesticides Analysis					
Chlordane	<0.0516	ug/L	EPA 8081B/1311	<=0.03	
Endrin	<0.0129	ug/L	EPA 8081B/1311	<=0.02	
Heptachlor	<0.0129	ug/L	EPA 8081B/1311	<=0.10	
Heptachlor Epoxide	<0.0129	ug/L	EPA 8081B/1311	<=0.01	
Lindane	<0.0129	ug/L	EPA 8081B/1311	<=0.40	
Methoxychlor	<0.0645	ug/L	EPA 8081B/1311	<=10.00	
Toxaphene	<0.65	ug/L	EPA 8081B/1311	<0.50	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-033
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
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Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Ignitability Analysis					
Ignitability	Non-Ignit		EPA 1030 P		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-034
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru L
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Reactive Cyanide Analysis					
Cyanide As HCN Releasable	<0.250	mg/Kg	EPA SW-846 Ch 7.3.3		
Reactive Sulfide Analysis					
Sulfide As H2S Releasable	<15.0	mg/Kg	EPA SW-846 Ch 7.3.4		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-035
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point I thru l
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Analysis for pH (Lab) and Temperature					
Ph	8.52	pH units	EPA 9045D		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: pH analyzed outside the analytical holding time

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-036
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Semivolatiles by Method 8270					
Dibenzo(a,h)anthracene	<99.1	ug/kg dry	EPA 8270D		
Aniline	<397	ug/kg dry	EPA 8270D		
4-chloro-3-methylphenol	<99.1	ug/kg dry	EPA 8270D		
1,2,4-Trichlorobenzene	<99.1	ug/kg dry	EPA 8270D		
1,2-Dichlorobenzene	<99.1	ug/kg dry	EPA 8270D		
1,2-Diphenylhydrazine	<99.1	ug/kg dry	EPA 8270D		
1,3-Dichlorobenzene	<99.1	ug/kg dry	EPA 8270D		
1,4-Dichlorobenzene	<99.1	ug/kg dry	EPA 8270D		
2,4,5-Trichlorophenol	<99.1	ug/kg dry	EPA 8270D		
2,4,6-Trichlorophenol	<99.1	ug/kg dry	EPA 8270D		
2,4-Dichlorophenol	<99.1	ug/kg dry	EPA 8270D		
2,4-Dimethylphenol	<99.1	ug/kg dry	EPA 8270D		
2,4-Dinitrophenol	<198	ug/kg dry	EPA 8270D		
2,4-Dinitrotoluene	<99.1	ug/kg dry	EPA 8270D		
2,6-Dinitrotoluene	<99.1	ug/kg dry	EPA 8270D		
2-Chloronaphthalene	<99.1	ug/kg dry	EPA 8270D		
2-Chlorophenol	<99.1	ug/kg dry	EPA 8270D		
2-Methylnaphthalene	<99.1	ug/kg dry	EPA 8270D		
2-Methylphenol	<99.1	ug/kg dry	EPA 8270D		
2-Nitrophenol	<99.1	ug/kg dry	EPA 8270D		
3,3-Dichlorobenzidine	<99.1	ug/kg dry	EPA 8270D		
3/4-Methylphenol	<99.1	ug/kg dry	EPA 8270D		
3-Nitroaniline	<198	ug/kg dry	EPA 8270D		
4,6-Dinitro-2-methylphenol	<198	ug/kg dry	EPA 8270D		
4-Bromophenyl-phenylether	<99.1	ug/kg dry	EPA 8270D		
4-Chloroaniline	<99.1	ug/kg dry	EPA 8270D		
4-Chlorophenyl-phenylether	<99.1	ug/kg dry	EPA 8270D		
4-Nitroaniline	<198	ug/kg dry	EPA 8270D		
4-Nitrophenol	<198	ug/kg dry	EPA 8270D		
Acenaphthene	<99.1	ug/kg dry	EPA 8270D		
Acenaphthylene	57.1	ug/kg dry	EPA 8270D		J
Anthracene	139	ug/kg dry	EPA 8270D		
Benzidine	<397	ug/kg dry	EPA 8270D		
Benzo(a)anthracene	187	ug/kg dry	EPA 8270D		
Benzo(a)pyrene	94.3	ug/kg dry	EPA 8270D		CCV-E
Benzo(b)fluoranthene	166	ug/kg dry	EPA 8270D		
Benzo(g,h,i)perylene	239	ug/kg dry	EPA 8270D		CCV-E
Benzo(k)fluoranthene	152	ug/kg dry	EPA 8270D		CCV-E
Bis(2-chloroethoxy)methane	<99.1	ug/kg dry	EPA 8270D		
Bis(2-chloroethyl)ether	<99.1	ug/kg dry	EPA 8270D		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/12/2015

Lab Sequence Number: 15-04086-036
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Total Semivolatiles by Method 8270					
Bis(2-chloroisopropyl)ether	<99.1	ug/kg dry	EPA 8270D		
Bis(2-ethylhexyl)phthalate	<99.1	ug/kg dry	EPA 8270D		
Butyl benzyl phthalate	<99.1	ug/kg dry	EPA 8270D		
Chrysene	408	ug/kg dry	EPA 8270D		
Dibenzofuran	<99.1	ug/kg dry	EPA 8270D		
Diethyl phthalate	<99.1	ug/kg dry	EPA 8270D		
Dimethyl phthalate	<99.1	ug/kg dry	EPA 8270D		
Di-n-butyl phthalate	<99.1	ug/kg dry	EPA 8270D		
Di-n-octyl phthalate	<99.1	ug/kg dry	EPA 8270D		
Fluoranthene	<99.1	ug/kg dry	EPA 8270D		
Fluorene	<99.1	ug/kg dry	EPA 8270D		
Hexachlorobenzene	<99.1	ug/kg dry	EPA 8270D		
Hexachlorobutadiene	<99.1	ug/kg dry	EPA 8270D		
Hexachlorocyclopentadiene	<99.1	ug/kg dry	EPA 8270D		
Hexachloroethane	<99.1	ug/kg dry	EPA 8270D		
Indeno(1,2,3-cd)pyrene	86.4	ug/kg dry	EPA 8270D		CCV-J
Isophorone	<99.1	ug/kg dry	EPA 8270D		
Naphthalene	<99.1	ug/kg dry	EPA 8270D		
Nitrobenzene	<99.1	ug/kg dry	EPA 8270D		
N-Nitrosodimethylamine	<99.1	ug/kg dry	EPA 8270D		
N-Nitroso-di-n-propylamine	<99.1	ug/kg dry	EPA 8270D		
N-Nitrosodiphenylamine	<99.1	ug/kg dry	EPA 8270D		
Pentachlorophenol	<99.1	ug/kg dry	EPA 8270D		
Phenanthrene	616	ug/kg dry	EPA 8270D		
Phenol	<99.1	ug/kg dry	EPA 8270D		
Pyrene	<99.1	ug/kg dry	EPA 8270D		
Pyridine	<397	ug/kg dry	EPA 8270D		

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-036
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

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Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Results of Analysis					
Total Solids	84.1	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Qualifier Codes Key:
-
C Calibration acceptability criteria exceeded for this analyte
E Value above quantitation range
J Estimate value below reporting limit
V

Sample Comment: results for dilution

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-037
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
RCRA TCLP Semivolatiles by Method 8270					
1,4-Dichlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=7.50	
2,4,5-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=400.00	
2,4,6-Trichlorophenol	<10.0	ug/L	EPA 8270D/1311	<=2.00	
2,4-Dinitrotoluene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
3/4-Methylphenol	<20.0	ug/L	EPA 8270D/1311	<=200.00	
2-Methylphenol	<10.0	ug/L	EPA 8270D/1311	<=200.00	
Cresols, Total	<30.0	ug/L	EPA 8270D/1311	<=200.00	
Hexachlorobenzene	<10.0	ug/L	EPA 8270D/1311	<=0.13	
Hexachlorobutadiene	<10.0	ug/L	EPA 8270D/1311	<=0.50	
Hexachloroethane	<10.0	ug/L	EPA 8270D/1311	<=3.00	
Nitrobenzene	<10.0	ug/L	EPA 8270D/1311	<=2.00	
Pentachlorophenol	<10.0	ug/L	EPA 8270D/1311	<=100.00	
Pyridine	<10.0	ug/L	EPA 8270D/1311	<=5.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-038
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
(Total) RCRA Metals					
Arsenic as As	3.58	mg/kg dry	EPA 6010C		
Barium as Ba	101.00	mg/kg dry	EPA 6010C		
Cadmium as Cd	4.15	mg/kg dry	EPA 6010C		
Chromium as Cr	33.80	mg/kg dry	EPA 6010C		
Lead as Pb	487.00	mg/kg dry	EPA 6010C		
Mercury as Hg	0.35	mg/kg dry	EPA 7473		
Selenium as Se	3.25	mg/kg dry	EPA 6010C		
Silver as Ag	<0.594	mg/kg dry	EPA 6010C		
Copper Analysis					
Copper As Cu	130	mg/kg dry	EPA 6010C		
Nickel as Ni Analysis					
Nickel As Ni	28.0	mg/kg dry	EPA 6010C		
Zinc Analysis					
Zinc As Zn	907	mg/kg dry	EPA 6010C		
Results of Analysis					
Total Solids	84.1	%	SM 2540G		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-039
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) RCRA Metals					
Arsenic as As	<0.004	mg/L	EPA 6010C/1311	<=5.00	
Barium as Ba	0.322	mg/L	EPA 6010C/1311	<=100.00	
Cadmium as Cd	0.006	mg/L	EPA 6010C/1311	<=1.00	
Chromium as Cr	<0.005	mg/L	EPA 6010C/1311	<=5.00	
Lead as Pb	0.067	mg/L	EPA 6010C/1311	<=5.00	
Mercury as Hg	<0.000200	mg/L	EPA 7473/1311	<=0.20	
Selenium as Se	<0.010	mg/L	EPA 6010C/1311	<=1.00	
Silver as Ag	<0.005	mg/L	EPA 6010C/1311	<=5.00	
TCLP Copper					
Copper As Cu	0.0541	mg/L	EPA 6010C/1311		
TCLP Nickel					
Nickel As Ni	0.0298	mg/L	EPA 6010C/1311		
TCLP Zinc					
Zinc As Zn	0.651	mg/L	EPA 6010C/1311		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-040
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Herbicides Analysis					
2,4-D	<5.00	ug/L	EPA 8151A m/1311	<=10.00	
Silvex	<5.00	ug/L	EPA 8151A m/1311	<=1.00	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-041
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Regulatory Limits mg/L	Qualifier
(TCLP) Pesticides Analysis					
Chlordane	<0.0516	ug/L	EPA 8081B/1311	<=0.03	
Endrin	<0.0129	ug/L	EPA 8081B/1311	<=0.02	
Heptachlor	<0.0129	ug/L	EPA 8081B/1311	<=0.10	
Heptachlor Epoxide	<0.0129	ug/L	EPA 8081B/1311	<=0.01	
Lindane	<0.0129	ug/L	EPA 8081B/1311	<=0.40	
Methoxychlor	<0.0645	ug/L	EPA 8081B/1311	<=10.00	
Toxaphene	<0.65	ug/L	EPA 8081B/1311	<0.50	

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-042
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Ignitability Analysis					
Ignitability	Non-Ignit		EPA 1030 P		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-043
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Reactive Cyanide Analysis					
Cyanide As HCN Releasable	<0.250	mg/Kg	EPA SW-846 Ch 7.3.3		
Reactive Sulfide Analysis					
Sulfide As H2S Releasable	<15.0	mg/Kg	EPA SW-846 Ch 7.3.4		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04086-044
Incident Number:
Chain of Custody ID: HH30752
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;PELLICCIPA@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/12/2015
Date Received: 6/6/2015
Date Sampled: 6/6/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL COMPOSITE
Description: test point M thru P
Location: 3rd ave yard parking lot
Sampled: 6/6/2015 12:00 PM By: Rivera, Anthony

Test Description	Result	Units	Method	Limits	Qualifier
Analysis for pH (Lab) and Temperature					
Ph	10.8	pH units	EPA 9045D		

Status: Authorized
Authorized By: Jean A Celestine
Title: Specialist

Analyzed By: York Analytical Laboratories, INC. (ELAP #10854)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Sample Comment: pH analyzed outside the analytical holding time

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/22/2015

Lab Sequence Number: 15-04377-001
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample 4C
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: PR07-6/21/2015 8:15:56 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	1.0	ppm	EPA 608/8082A		
Total PCB	1	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04377-002
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample 4D
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: GC03-6/22/2015 2:11:54 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	22.3	ppm	EPA 608/8082A		
Total PCB	22	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04377-003
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample 4E
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: GC02-6/22/2015 3:21:17 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	6.6	ppm	EPA 608/8082A		
Total PCB	7	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: James P Hendricks
Title: Manager

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04377-004
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample 4F
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: PR07-6/21/2015 9:48:41 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	<1.0	ppm	EPA 608/8082A		
Total PCB	<1	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04377-005
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample 4G
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: PR07-6/21/2015 10:19:37 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	1.1	ppm	EPA 608/8082A		
Total PCB	1	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04377-006
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample 4H
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: PR07-6/21/2015 10:50:34 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	1.6	ppm	EPA 608/8082A		
Aroclor 1260	2.4	ppm	EPA 608/8082A		
Total PCB	4	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: Edward Chin
Title: Sr Specialist

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04377-007
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample Z1
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: GC02-6/22/2015 2:29:28 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	<1.0	ppm	EPA 608/8082A		
Total PCB	<1	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: James P Hendricks
Title: Manager

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04377-008
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample Z2
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: PR07-6/21/2015 11:52:23 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	<1.0	ppm	EPA 608/8082A		
Total PCB	<1	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: James P Hendricks
Title: Manager

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04377-009
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample Z3
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: GC03-6/22/2015 12:31:52 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<3.0	ppm	EPA 608/8082A		
Aroclor 1260	9.0	ppm	EPA 608/8082A		
Total PCB	9	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: James P Hendricks
Title: Manager

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

Lab Sequence Number: 15-04377-010
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

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Results of Analysis

Matrix: SOIL GRAB
Description: Sample Z4
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: GC02-6/22/2015 2:55:24 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	1.7	ppm	EPA 608/8082A		
Total PCB	2	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: James P Hendricks
Title: Manager

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/22/2015

Lab Sequence Number: 15-04377-011
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample Z5
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: GC03-6/22/2015 2:41:26 PM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	31.2	ppm	EPA 608/8082A		
Total PCB	31	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: James P Hendricks
Title: Manager

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Consolidated Edison
Environmental Health and Safety ChemLab
NY Lab ID No: 10380

6/22/2015

Lab Sequence Number: 15-04377-012
Incident Number:
Chain of Custody ID: HH30757
Submitter: Bellows, Brian C
Job Site : 3rd Ave
Email to: WILKESJ@coned.com;; BQChemLabResults@coned.com; BellowsB@coned.com

Date Authorized: 6/22/2015
Date Received: 6/19/2015
Date Sampled: 6/19/2015

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix: SOIL GRAB
Description: Sample Z6
Location: 3rd Avenue Yard - Phase 4
Sampled: 6/19/2015 11:00 AM By: Rivera, Anthony

QC ID: PR07-6/22/2015 1:56:16 AM

Test Description	Result	Units	Method	Limits	Qualifier
PCB					
Aroclor 1016	<1.0	ppm	EPA 608/8082A		
Aroclor 1221	<1.0	ppm	EPA 608/8082A		
Aroclor 1232	<1.0	ppm	EPA 608/8082A		
Aroclor 1242	<1.0	ppm	EPA 608/8082A		
Aroclor 1248	<1.0	ppm	EPA 608/8082A		
Aroclor 1254	<1.0	ppm	EPA 608/8082A		
Aroclor 1260	<1.0	ppm	EPA 608/8082A		
Total PCB	<1	ppm	EPA 608/8082A		

Status: Authorized
Authorized By: James P Hendricks
Title: Manager

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center and Employee PArking Lot
Brooklyn, New York

September 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S
SAMPLE DATE		9/27/2006	9/27/2006	9/27/2006	9/27/2006	9/27/2006	9/27/2006	9/27/2006
LABORATORY ID#		0610-00011-007	0610-00011-008	0610-00011-009	0610-00011-010	0610-00011-012	0610-00011-013	0610-00011-014
Volatile Organic Compounds (ppb)								
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	7JB	5JB	4JB	14JB	ND	7JB	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	**38**	ND	ND	**44**	ND	ND	ND
Toluene	*5*	1J	ND	ND	**48**	ND	ND	ND
Ethylbenzene	*5*	**110**	ND	ND	**66**	ND	ND	ND
Total Xylenes	*5*	**12J**	ND	ND	**1,490**	ND	ND	ND
Isopropylbenzene	*5*	**13**	ND	ND	**10**	ND	ND	ND
n-Propylbenzene	*5*	**18**	ND	ND	**16**	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**370**	ND	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	4J	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**170**	ND	ND	**830**	ND	ND	ND
sec-Butyl-benzene	*5*	1J	ND	ND	2J	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**17**	ND	1J	**170**	ND	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**280**	**28**	**35**	**160**	ND	ND	2J
Semi-Volatile Organic Compounds (ppb)								
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)								
Lead (Dissolved))	*25*	ANR	ANR	ANR	ND	ANR	ANR	ANR
Lead (Total)	*25*	ANR	ANR	ANR	11.7	ANR	ANR	ANR

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center and Employee PArking Lot
Brooklyn, New York

September 2006

SAMPLE LOCATION	*NYSDEC*	MW-1N	MW-2N	MW-3N	MW-4N	MW-5N	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE	*Groundwater*	9/27/2006	9/27/2006	9/28/2006	9/28/2006	9/27/2006	9/28/2006	9/28/2006	9/28/2006	9/27/2006	9/27/2006	6/27/2006
LABORATORY ID#	*Standards/Criteria*	0610-00011-001	0610-00011-003	0610-00012-001	0610-00012-003	0610-00011-005	0610-00012-005	0610-00012-007	0610-00012-009	0610-00011-016	0610-00011-015	0610-00011-018
Volatile Organic Compounds (ppb)												
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND
Acetone	*50*	15JB	11JB	6JB	**51B**	5JB	31JB	6JB	12JB	19JB	8JB	12JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	1J	ND	ND	ND	ND	ND	4
Benzene	*0.7*	**200**	**7**	**2J**	**1,300**	ND	**2J**	**2J**	ND	**170**	ND	ND
Toluene	*5*	**55**	2J	ND	**270**	ND	1J	ND	**32**	**47**	ND	ND
Ethylbenzene	*5*	**200**	4J	ND	**519**	ND	ND	ND	ND	**160**	ND	ND
Total Xylenes	*5*	**182**	**7J**	ND	**2,277**	ND	ND	ND	ND	**217**	ND	ND
Isopropylbenzene	*5*	**82**	**14**	ND	**66**	ND	ND	ND	ND	**71**	ND	ND
n-Propylbenzene	*5*	**61**	**8**	ND	**57**	ND	ND	ND	ND	**52**	ND	ND
1,3,5-Trimethylbenzene	*5*	**12**	**12**	ND	**160**	ND	ND	ND	ND	**10**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	1J	ND	ND	4J	ND	ND	ND	ND	14	ND	ND
1,2,4-Trimethylbenzene	*5*	**95**	**13**	ND	**600**	ND	ND	ND	ND	**79**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	4J	ND	ND	ND	ND	4J	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	4J	1J	ND	**430**	4J	ND	2J	ND	4J	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	1J	1J	**22**	**600**	ND	5	6	ND	2J	ND	ND
Semi-Volatile Organic Compounds (ppb)												
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	4J	ANR	ANR	ANR	ANR	ANR	ANR	ND
Anthracene	*50*	ANR	ANR	ANR	4J	ANR	ANR	ANR	ANR	ANR	ANR	ND
Acenaphthene	*20*	ANR	ANR	ANR	**55**	ANR	ANR	ANR	ANR	ANR	ANR	ND
Acenaphthylene	*50*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR	ND
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	**3J**	ANR	ANR	ANR	ANR	ANR	ANR	ND
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	**3J**	ANR	ANR	ANR	ANR	ANR	ANR	ND
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR	ND
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	**3J**	ANR	ANR	ANR	ANR	ANR	ANR	ND
Chrysene	*0.002*	ANR	ANR	ANR	**2J**	ANR	ANR	ANR	ANR	ANR	ANR	ND
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR	ND
Dibenzofuran		ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR	ND
Fluoranthene	*50*	ANR	ANR	ANR	9	ANR	ANR	ANR	ANR	ANR	ANR	ND
Fluorene	*50*	ANR	ANR	ANR	14	ANR	ANR	ANR	ANR	ANR	ANR	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR	ND
Phenanthrene	*50*	ANR	ANR	ANR	22	ANR	ANR	ANR	ANR	ANR	ANR	ND
Pyrene	*50*	ANR	ANR	ANR	11	ANR	ANR	ANR	ANR	ANR	ANR	ND
3&4-Methyl Phenol		ANR	ANR	ANR	34	ANR	ANR	ANR	ANR	ANR	ANR	ND
2-Methylnaphthalene		ANR	ANR	ANR	44	ANR	ANR	ANR	ANR	ANR	ANR	ND
2-Methyl Phenol		ANR	ANR	ANR	14	ANR	ANR	ANR	ANR	ANR	ANR	ND
Phenol	*1*	ANR	ANR	ANR	**45**	ANR	ANR	ANR	ANR	ANR	ANR	ND
Napthalene	*10*	ANR	ANR	ANR	**360**	ANR	ANR	ANR	ANR	ANR	ANR	ND
Metals (ppb)												
Lead (Dissolved))	*25*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Lead (Total)	*25*	ND	20.7	**45**	**290**	ND	**316**	**32.1**	**166**	ND	ANR	ANR

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	M-11S	MW-11S	MW-11S
SAMPLE DATE	*Groundwater*	4/14/2004	7/13/2004	10/14/2004	2/2/2005	5/4/2005	12/14/2005	3/22/2006	6/13/2006	9/27/2006
Number or Days	*Standards/Criteria*									
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	8J	17	7JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB	ND	ND
Benzene	*0.7*	**9.55**	**48**	**27.6**	**2**	**160**	**21**	**18**	**17**	**38**
Toluene	*5*	ND	**12**	ND	ND	97	ND	1J	1	1J
Ethylbenzene	*5*	**13.1**	**290**	**99.2**	4	**440**	ND	ND	**45**	**110**
Total Xylenes	*5*	**43.2**	**322.0**	**72.74**	**14**	**1,040**	**19**	**52**	**24**	**12J**
Isopropylbenzene	*5*	ND	**21**	**9.93**	ND	**23**	ND	7	7	**13**
n-Propylbenzene	*5*	ND	**33**	**15.3**	ND	**26**	ND	9	8	**18**
1,3,5-Trimethylbenzene	*5*	**6.63**	**35**	**7.98**	3	ND	ND	8	4	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**106**	**600**	**191**	**29**	**510**	**130**	**83**	**84**	**170**
sec-Butyl-benzene	*5*	ND	2	ND	ND	ND	ND	ND	ND	1J
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	**120**	**56.3**	ND	**83**	**13B**	**13B**	**10**	**17**
MTBE	*10*	**260**	**860**	**484**	**86**	**890**	**210**	**230**	**210**	**280**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	2	3	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	2	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	5.5	**68**	**40.7**	2	**48**	**6**	ANR	ANR	ANR
Metals (ppb)										
Lead (Total)	*25*	ND	ND	ANR	6.60	13.5	13.8	ANR	ANR	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S
SAMPLE DATE	*Groundwater*	4/14/2004	7/14/2004	10/14/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006	6/13/2006	9/27/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	3	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	ND	7J	20	5JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	3JB	2	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	3	ND
MTBE	*10*	**69.2**	**28**	**30**	**23**	**59**	**43**	6	**22**	**30**	**28**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	1J	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	ND	ND	ANR	11.1	5.62	8.10	**36**	ANR	ANR	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later d

** - Indicates Analysis Not Run due to free product in MW

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2. J = Indicates estimated concentration for parameter indicated.

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S
SAMPLE DATE	*Groundwater*	4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006	6/15/2006	9/27/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	7JB	10J	11	4JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	3JB	**11**	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	**2J**	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	1J
MTBE	*10*	**52.5**	**37**	**32.2**	**11**	**20**	**92**	**41**	ND	**37**	**35**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**4**	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	ND	ND	ANR	10.4	12.4	ND	ND	ANR	ANR	ANR

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S **	MW-14S	MW-14S	MW-14S	MW-14S
SAMPLE DATE	*Groundwater*	4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005*	12/14/2005	3/22/2006	6/13/2006	9/27/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ANR	ND	ND	7	ND
Acetone	*50*	ND	ND	ND	ND	ND	ANR	22JB	11	24	14JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ANR	27	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ANR	ND	**11**	ND	ND
Benzene	*0.7*	**445**	**120**	**264**	ND	**100**	ANR	**78**	ND	**36**	**44**
Toluene	*5*	**1730**	**710**	**843**	**170**	**610**	ANR	**320**	ND	**32**	**48**
Ethylbenzene	*5*	**1130**	**650**	**653**	**180**	**410**	ANR	**68**	ND	**190**	**66**
Total Xylenes	*5*	**11370**	**7500**	**9450**	**4700**	**5200**	ANR	**3100**	ND	**1,760**	**1,490**
Isopropylbenzene	*5*	**90.6**	**50**	**61.8**	ND	ND	ANR	**12**	ND	**43**	**10**
n-Propylbenzene	*5*	**185**	**90**	**106**	ND	**70**	ANR	6	ND	**95**	**16**
1,3,5-Trimethylbenzene	*5*	**759**	**700**	**766**	**660**	**540**	ANR	**470**	ND	**360**	**370**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**9**	4J
1,2,4-Trimethylbenzene	*5*	**2750**	**2600**	**2810**	**2300**	**1900**	ANR	**540**	ND	**1,400**	**830**
sec-Butyl-benzene	*5*	ND	8	**8.24**	ND	ND	ANR	ND	ND	ND	2J
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND
Naphthalene	*10*	**1150**	**1800**	**710**	**210**	**680**	ANR	**580B**	ND	**180**	**170**
MTBE	*10*	**838**	**510**	**558**	ND	**450**	ANR	**450**	**37**	**180**	**160**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	**4**	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	2	ND	ANR	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	2	ND	ANR	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	1	ND	ANR	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	2	ND	ANR	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	1	ND	ANR	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	2	ND	ANR	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	5	ND	ANR	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	4	3	ANR	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	9	4	ANR	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	4	ND	ANR	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Napthalene	*10*	**450**	**340**	**557**	**350**	**250**	ANR	**300**	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	18.9	ND	ANR	**55.2**	11.4	ANR	4.25	23.5	14	11.7

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-18S	MW-18S	MW-18S	MW-18S *	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S
SAMPLE DATE	*Groundwater*	4/14/2004	7/14/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006	6/13/2006	9/27/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	8	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	ND	ND	8	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2JB	ND	2	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	3J	ND	ND
Toluene	*5*	ND	ND	ND	ND	**6**	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	4	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	**54**	ND	**8J**	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	**10**	ND	1J	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	**36**	ND	**6**	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	2	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	**16**	ND	2JB	ND	1.3	ND
MTBE	*10*	ND	ND	ND	ND	4	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ANR	ND	ND	1J	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	ND	ND	ANR	3.5	ND	ND	ND	ANR	ANR	ANR

Notes:

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4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S
SAMPLE DATE	*Groundwater*	4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/23/2005	12/14/2005	3/22/2006	6/13/2006	9/27/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	24	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	8JB	8J	**140**	7JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2JB	ND	2	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	3JB	**3**	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	3	ND
MTBE	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ANR	2J	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	**142**	ANR	ANR	ND	4.05	8.41	22.4	ANR	ANR	ANR

Notes:

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1. NE = Not established

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S
SAMPLE DATE	*Groundwater*	4/15/2004	7/14/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006	6/13/2006	9/27/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	7	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	7JB	10J	15	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	3JB	ND	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	**9**	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**12.6**	ND	ND	ND	ND	ND	ND	ND	1	ND
MTBE	*10*	ND	5	**11.1**	**6**	**5**	2	6	5J	4	2J
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	10.1	16.6	ANR	ND	**33.9**	9.16	6.56	ANR	ANR	ANR

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N
SAMPLE DATE	*Groundwater*	4/16/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/15/2006	9/27/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	23JB	13J	35	15JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3J	ND	ND	ND
Benzene	*0.7*	**150**	**90**	**296**	**75**	**36**	**84**	**150**	**94**	**98**	**200**
Toluene	*5*	**44.2**	**96**	**905**	**8.0**	**6**	**8**	**6**	**3J**	**5**	**55**
Ethylbenzene	*5*	**149**	**100**	**446**	**79**	**48**	**61**	**110**	**46**	**21**	**262**
Total Xylenes	*5*	**160.5**	**400**	**2087**	**230**	**32**	**23**	**71**	**6**	**7**	**82**
Isopropylbenzene	*5*	**63.4**	**31**	**68.2**	**20**	**9**	**13**	**42**	**58**	**50**	**61**
n-Propylbenzene	*5*	**51.5**	**19**	**53.4**	**14**	**7**	**8**	**24**	**40**	**32**	**32**
1,3,5-Trimethylbenzene	*5*	**12.0**	**23.0**	**89.7**	**51**	**5.0**	ND	1	ND	ND	**12**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	2	ND	ND	ND	ND	ND	ND	ND	1J
1,2,4-Trimethylbenzene	*5*	**293**	**220**	**266**	**280**	**38**	**54**	**82**	**28**	**34**	**95**
sec-Butyl-benzene	*5*	ND	2	ND	ND	ND	ND	ND	3J	3	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**26.6**	**18**	**9.43**	**55**	5	**10**	2JB	ND	3	4J
MTBE	*10*	ND	ND	ND	ND	ND	4	8	6	3	1J
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	6	ND	4	1	3	2J	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	2	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	1	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	**3J**	ANR	ANR	ANR
Napthalene	*10*	5.68	**21**	**10**	15	**2**	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	21.2	**31.6**	ANR	ND	6.12	**291.0**	3.95	ND	ND	ND

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N
SAMPLE DATE	*Groundwater*	4/15/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/7/2005	12/15/2005	3/23/2006	6/14/2006	9/27/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	10JB	ND	11	11JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	ND	ND	ND
Benzene	*0.7*	ND	ND	**23.1**	ND	**2**	ND	**2J**	**2J**	**3**	**7**
Toluene	*5*	ND	3	ND	ND	ND	ND	ND	ND	ND	2J
Ethylbenzene	*5*	ND	ND	**16**	ND	1	ND	ND	ND	ND	4J
Total Xylenes	*5*	ND	3	**34**	ND	ND	ND	ND	ND	ND	**7J**
Isopropylbenzene	*5*	ND	4	**22.1**	ND	4	ND	1J	ND	3	**14**
n-Propylbenzene	*5*	ND	1	**13.8**	ND	2	ND	ND	ND	1.0	**8**
1,3,5-Trimethylbenzene	*5*	ND	3	**51**	ND	ND	ND	ND	ND	ND	**12**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	4	**67.4**	ND	2	ND	ND	ND	ND	**13**
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	1.0	1J
MTBE	*10*	5.10	ND	ND	ND	4.00	4	5J	3J	1	1J
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	18.3	ND	ANR	**27.1**	15.7	3.79	ND	14.7	12	20.7

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N
SAMPLE DATE	*Groundwater*	4/15/2004	7/15/2004	10/13/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006	9/28/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	6	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	23JB	9J	24	6JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	ND	2	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	**2**	ND	ND	ND	**2J**
Toluene	*5*	ND	ND	ND	ND	ND	1	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	ND	ND	**18.9**	**15**	**10**	**17**	**24**	**22**	9	**22**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	7	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	**26.1**	**121**	ANR	**206**	**49.3**	**157.0**	**556**	**1330**	**73**	**45**

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later d

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

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4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-4N	MW4-N	MW4-N	MW4-N	MW4-N	MW4-N	MW4-N	MW-4N	MW-4N	MW-4N
SAMPLE DATE	*Groundwater*	2/3/2005	4/16/2004	7/15/2004	10/13/2004	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006	9/28/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ANR	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ANR	ND	ND	ND	ND	ND	11J	ND	ND	ND
Acetone	*50*	ANR	ND	ND	ND	ND	ND	ND	**51**	**57**	**51B**
Carbon Disulfide	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ANR	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ANR	**2180**	**2690**	**2000**	**1200**	**4400**	**930**	**3400**	**1,200**	**1,300**
Toluene	*5*	ANR	**1580**	**4430**	**3900**	**1800**	**3300**	**630**	**1900**	**300**	**270**
Ethylbenzene	*5*	ANR	**1560**	**1430**	**1900**	**1100**	**1000**	**550**	**940**	**400**	**519**
Total Xylenes	*5*	ANR	**7700**	**8990**	**1400**	**6800**	**4700**	**3000**	**4400**	**1,730**	**2,277**
Isopropylbenzene	*5*	ANR	**210**	**235**	**250**	**180**	**160**	**69**	**79**	**57**	**66**
n-Propylbenzene	*5*	ANR	**165**	**199**	**210**	**180**	**150**	**64**	**70**	**49**	**57**
1,3,5-Trimethylbenzene	*5*	ANR	**816**	**642**	**650**	**510**	**420**	**190**	**190**	**140**	**160**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	**9.41**	**10.9**	**13**	ND	ND	**12**	**5**	4	4J
1,2,4-Trimethylbenzene	*5*	ANR	**2560**	**1990**	**2000**	**2000**	**1700**	**650**	**1100**	ND	**600**
sec-Butyl-benzene	*5*	ANR	**13.0**	**14.7**	**17.0**	ND	ND	ND	ND	ND	4J
n-Butyl-benzene	*5*	ANR	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ANR	**5140**	**1400**	**980**	**2200**	ND	**1000B**	**3300**	**210**	**430**
MTBE	*10*	ANR	**2230**	**1790**	**870**	**1700**	**2600**	**1200**	**3500**	**920**	**600**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ANR	ND	ND	ND	ND	ND	2J	3JB	1	4J
Anthracene	*50*	ANR	ND	ND	ND	ND	4	2J	1J	2	4J
Acenaphthene	*20*	ANR	5.42	ND	6	ND	**62**	**35**	**36**	**29**	**55**
Acenaphthylene	*50*	ANR	ND	ND	ND	ND	ND	ND	1J	1	ND
Benzo(a)anthracene	*0.002*	ANR	ND	ND	ND	ND	ND	**1J**	ND	ND	**3J**
Benzo(b,k)flouranthene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ND	**3J**
Benzo(g,h,I)perylene	*5*	ANR	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ND	**3J**
Chloroform		ANR	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	*0.002*	ANR	ND	ND	ND	ND	ND	1J	ND	ND	**2J**
Dibenzo(a,h)anthracene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ANR	ND	ND	ND	ND	ND	ND	ND	2	ND
Flouranthene	*50*	ANR	ND	ND	ND	ND	5	4J	1J	2	9
Flourene	*50*	ANR	ND	ND	2	ND	19	8	7	6	14
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	*50*	ANR	ND	ND	3	ND	22	9	8	4	22
Pyrene	*50*	ANR	ND	ND	1	ND	4	6	1J	3	11
3&4-Methyl Phenol		ANR	ND	ND	ND	ND	ND	ND	ND	73	34
2-Methylnaphthalene		ANR	ND	ND	ND	ND	ND	ND	ND	12	44
2-Methyl Phenol		ANR	ND	ND	ND	ND	ND	ND	ND	8	14
Phenol	*1*	ANR	ND	ND	ND	ND	ND	**6**	**18**	ND	**45**
Napthalene	*10*	ANR	**440**	**895**	**480**	**ND**	**940**	**330**	**380**	**160**	**360**
Metals (ppb)											
Lead (Total)	*25*	ANR	**96.2**	ANR	**623**	**135**	**33.1**	**149**	**373**	**170**	**290**

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N
SAMPLE DATE	*Groundwater*	4/16/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006	9/27/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	ND	ND	9	5JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2JB	ND	**5**	1J
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND	**2**	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	1J	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	2	3JB	ND	1	4J
MTBE	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	2	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	**26.2**	ND	ANR	ND	9.12	4.12	ND	11.7	ND	ND

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N
SAMPLE DATE	*Groundwater*	4/15/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006	9/28/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	12J	31	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	16JB	44	40	31JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	1J	4	ND
Benzene	*0.7*	**7.93**	**3**	**12.4**	ND	ND	**2**	ND	ND	**3**	**2J**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	1J
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	**46.4**	6	**51.6**	ND	**3**	8	3J	4J	ND	5
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	9	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	21.0	**40.6**	ANR	19.2	**63.4**	**87.4**	**126**	**202**	**240**	**316**

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N
SAMPLE DATE	*Groundwater*	4/16/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/7/2005	12/15/2005	3/23/2006	6/15/2006	9/28/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	19JB	45	12	6JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB	4JB	3	ND
Benzene	*0.7*	ND	ND	ND	ND	3	ND	**2J**	**2J**	**1**	**2J**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
Total Xylenes	*5*	**16.7**	4.0	ND	ND	2.0	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	2	ND	ND	2	ND	2J	3J	3	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	1	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**9.78**	2	ND	ND	1	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**37.8**	**12**	ND	ND	**21**	2	2JB	ND	5	2J
MTBE	*10*	**37.7**	**17**	**21.6**	ND	**10**	**10**	**11**	5J	8	6
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	1J	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	2	ND	ND	1	1	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	**17.5**	9	ND	ND	2	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	**26.9**	12.9	ANR	1260	**66.4**	**48.1**	**328**	**313**	19	**32.1**

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later d

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N
SAMPLE DATE	*Groundwater*	4/15/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006	9/28/2006
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	2J	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	20J	10	10
Acetone	*50*	ND	ND	ND	ND	ND	ND	**56B**	**76**	6	12JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB	ND	ND	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND	2	ND
Toluene	*5*	ND	ND	ND	ND	ND	**8**	ND	ND	ND	**32**
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	**21**	ND	**21**	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	1J	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	2	2JB	ND	ND	ND
MTBE	*10*	7.43	4	9.25	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	17	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	**59.4**	**37.3**	ANR	15.6	**164**	**304**	**128**	**166**	**130**	**166**

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later d

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 3

Groundwater Sampling Analytical Results

Con Edison 3rd Avenue Service Center
Brooklyn, New York

December 2005

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S
SAMPLE DATE		12/14/2005	12/14/2005	12/14/2005	12/14/2005	12/14/2005	12/14/2005	12/14/2005
Number or Days								
LABORATORY ID#		0512-00247-009	0512-00247-010	0512-00247-011	0512-00247-012	0512-00247-013	0512-00247-014	0512-00247-015
Volatile Organic Compounds (ppb)								
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	7JB	22JB	ND	8JB	7JB
Carbon Disulfide	*50*	ND	ND	ND	27	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	2JB	2JB	ND
Benzene	*0.7*	**21**	ND	ND	**78**	ND	ND	ND
Toluene	*5*	ND	ND	ND	**320**	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	**68**	ND	ND	ND
Total Xylenes	*5*	**19**	ND	ND	**3100**	**8J**	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	**12**	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	6	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**470**	1J	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	**9**	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**130**	ND	ND	**540**	**6**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**13B**	ND	ND	**580B**	2JB	ND	ND
MTBE	*10*	**210**	6	**41**	**450**	ND	ND	6
Semi Volatile Organic Compounds (ppb)								
bis(2-Ethylhexyl)phthalate	*5*	ND	1J	ND	ND	ND	2J	ND
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	1J	ND	ND	ND
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND
Flourene	*50*	ND	ND	ND	2J	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	*50*	ND	ND	ND	5J	ND	ND	ND
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND
3&4-Methyl Phenol		ND	ND	ND	17	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	96	ND	ND	ND
2-Methyl Phenol		ND	ND	ND	5J	ND	ND	ND
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND
Napthalene	*10*	6	ND	ND	**300**	1J	ND	ND
Metals (ppb)								
Lead	*25*	13.8	**36**	ND	4.25	ND	22.4	6.56

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 3

Groundwater Sampling Analytical Results

Con Edison 3rd Avenue Service Center
Brooklyn, New York

December 2005

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-1N	MW-2N	MW-3N	MW4-N	MW-5N	MW-8N	MW-9N	MW-10N
SAMPLE DATE		12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005	12/15/2005
Number or Days									
LABORATORY ID#		0512-00247-001	0512-00247-002	0512-00247-003	0512-00247-004	0512-00247-005	0512-00247-006	0512-00247-007	0512-00247-008
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	2J
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	1J	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	11J	ND	ND	ND	ND
Acetone	*50*	23JB	10JB	23JB	ND	ND	16JB	19JB	**56B**
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	3J	2J	2J	ND	2JB	2J	3JB	3JB
Benzene	*0.7*	**150**	**2J**	ND	**930**	ND	ND	**2J**	ND
Toluene	*5*	**6**	ND	ND	**630**	ND	ND	ND	ND
Ethylbenzene	*5*	**110**	ND	ND	**550**	ND	ND	ND	ND
Total Xylenes	*5*	**71**	ND	ND	**3000**	1J	ND	ND	ND
Isopropylbenzene	*5*	**42**	1J	ND	**69**	ND	ND	2J	ND
n-Propylbenzene	*5*	**24**	ND	ND	**64**	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	1	ND	ND	**190**	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	**12**	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**82**	ND	ND	**650**	ND	ND	ND	1J
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	2JB	ND	ND	**1000B**	3JB	ND	2JB	2JB
MTBE	*10*	8	5J	**24**	**1200**	ND	3J	**11**	ND
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	2J	2J	ND	2J	1J	2J
Anthracene	*50*	ND	ND	ND	2J	ND	ND	ND	ND
Acenaphthene	*20*	2J	ND	ND	**35**	ND	ND	ND	ND
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	*0.002*	ND	ND	ND	**1J**	ND	ND	ND	ND
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	*0.002*	ND	ND	ND	**1J**	ND	ND	ND	ND
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND
Flouranthene	*50*	ND	ND	ND	4J	ND	ND	ND	ND
Flourene	*50*	ND	ND	ND	8	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	*50*	ND	ND	ND	9	ND	ND	ND	ND
Pyrene	*50*	ND	ND	ND	6	ND	ND	ND	ND
3&4-Methyl Phenol		ND	ND	ND	44	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	30	ND	ND	ND	ND
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ND
Phenol	*1*	**3J**	ND	ND	**6**	ND	ND	ND	ND
Napthalene	*10*	ND	ND	ND	**330**	ND	ND	ND	ND
Metals (ppb)									
Lead	*25*	3.95	ND	**556**	**149**	ND	**126**	**328**	**128**

Notes:

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** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 6

Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center
Brooklyn, New York

March 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S
SAMPLE DATE		3/22/2006	3/22/2006	3/22/2006	3/22/2006	3/22/2006	3/22/2006	3/22/2006
LABORATORY ID#		0603-00191-001	0603-00191-002	0603-00191-003	0603-00191-004	0603-00191-005	0603-00191-006	0603-00191-007
Volatile Organic Compounds (ppb)								
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	9J	ND	ND	ND
Acetone	*50*	8J	7J	10J	25J	ND	8J	10J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	3JB	3JB	3JB	4JB	ND	ND	3JB
Benzene	*0.7*	**18**	ND	**2J**	ND	3J	3JB	**9**
Toluene	*5*	1J	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	**52**	ND	ND	**3500**	ND	ND	ND
Isopropylbenzene	*5*	7	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	9	ND	ND	**83**	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	8	ND	ND	**860**	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	**10**	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**83**	ND	ND	**3300**	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	**10**	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**13B**	ND	ND	**1100**	ND	ND	ND
MTBE	*10*	**230**	**22**	ND	**320J**	ND	ND	5J
Semi Volatile Organic Compounds (ppb)								
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR		ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Flouranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Flourene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)								
Lead	*25*	ANR	ANR	ANR	23.5	ANR	ANR	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 6

Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center
Brooklyn, New York

March 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-1N	MW-2N	MW-3N	MW-4N	MW-5N	MW-8N	MW-9N	MW-10N
SAMPLE DATE		3/23/2006	3/23/2006	3/23/2006	3/23/2006	3/23/2006	3/23/2006	3/23/2006	3/23/2006
LABORATORY ID#									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	12J	ND	20J
Acetone	*50*	13J	ND	9J	**51**	ND	44	45	**76**
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	1J	4JB	ND
Benzene	*0.7*	**94**	**2J**	ND	**3400**	ND	ND	**2J**	ND
Toluene	*5*	**3J**	ND	ND	**1900**	ND	ND	ND	ND
Ethylbenzene	*5*	**46**	ND	ND	**940**	ND	ND	ND	ND
Total Xylenes	*5*	**6**	ND	ND	**4400**	ND	ND	ND	ND
Isopropylbenzene	*5*	**58**	ND	ND	**79**	ND	ND	3J	ND
n-Propylbenzene	*5*	**40**	ND	ND	**70**	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**190**	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
p-Isopropyl-toluene	*5*	ND	ND	ND	**5**	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**28**	ND	ND	**1100**	ND	ND	ND	ND
sec-Butyl-benzene	*5*	3J	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	**3300**	ND	ND	ND	ND
MTBE	*10*	6	3J	**22**	**3500**	ND	4J	5J	ND
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	3JB	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	1J	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	**36**	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	1J	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR
Flouranthene	*50*	ANR	ANR	ANR	1J	ANR	ANR	ANR	ANR
Flourene	*50*	ANR	ANR	ANR	7	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	8	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	1J	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	**18**	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	**380**	ANR	ANR	ANR	ANR
Metals (ppb)									
Lead	*25*	ND	14.7	**1330**	**373**	11.7	**202**	**313**	**166**

Notes:

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** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	M-11S
SAMPLE DATE		4/14/2004	7/13/2004	10/14/2004	2/2/2005	5/4/2005	12/14/2005	3/22/2006
Number or Days								
Volatile Organic Compounds (ppb)								
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	8J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB
Benzene	*0.7*	**9.55**	**48**	**27.6**	**2**	**160**	**21**	**18**
Toluene	*5*	ND	**12**	ND	ND	97	ND	1J
Ethylbenzene	*5*	**13.1**	**290**	**99.2**	4	**440**	ND	ND
Total Xylenes	*5*	**43.2**	**322.0**	**72.74**	**14**	**1,040**	**19**	**52**
Isopropylbenzene	*5*	ND	**21**	**9.93**	ND	**23**	ND	7
n-Propylbenzene	*5*	ND	**33**	**15.3**	ND	**26**	ND	9
1,3,5-Trimethylbenzene	*5*	**6.63**	**35**	**7.98**	3	ND	ND	8
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	2	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**106**	**600**	**191**	**29**	**510**	**130**	**83**
sec-Butyl-benzene	*5*	ND	2	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	**120**	**56.3**	ND	**83**	**13B**	**13B**
MTBE	*10*	**260**	**860**	**484**	**86**	**890**	**210**	**230**
Semi Volatile Organic Compounds (ppb)								
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	2	3	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	2	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	5.5	**68**	**40.7**	2	**48**	**6**	ANR
Metals (ppb)								
Lead	*25*	ND	ND	ANR	6.60	13.5	13.8	ANR

Notes:

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4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S
SAMPLE DATE	*Groundwater*	4/14/2004	7/14/2004	10/14/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006
Number or Days	*Standards/Criteria*								
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	ND	7J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	3JB
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	**69.2**	**28**	**30**	**23**	**59**	**43**	6	**22**
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	1J	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)									
Lead	*25*	ND	ND	ANR	11.1	5.62	8.10	**36**	ANR

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S
SAMPLE DATE		4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006
Number or Days									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	7JB	10J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	3JB
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	**2J**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	2	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	**52.5**	**37**	**32.2**	**11**	**20**	**92**	**41**	ND
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)									
Lead	*25*	ND	ND	ANR	10.4	12.4	ND	ND	ANR

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S **	MW-14S	MW-14S
SAMPLE DATE	*Groundwater*	4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005*	12/14/2005	3/22/2006
Number or Days	*Standards/Criteria*								
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ANR	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ANR	ND	9J
Acetone	*50*	ND	ND	ND	ND	ND	ANR	22JB	25J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ANR	27	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ANR	ND	4JB
Benzene	*0.7*	**445**	**120**	**264**	ND	**100**	ANR	**78**	ND
Toluene	*5*	**1730**	**710**	**843**	**170**	**610**	ANR	**320**	ND
Ethylbenzene	*5*	**1130**	**650**	**653**	**180**	**410**	ANR	**68**	ND
Total Xylenes	*5*	**11370**	**7500**	**9450**	**4700**	**5200**	ANR	**3100**	**3500**
Isopropylbenzene	*5*	**90.6**	**50**	**61.8**	ND	ND	ANR	**12**	ND
n-Propylbenzene	*5*	**185**	**90**	**106**	ND	**70**	ANR	6	**83**
1,3,5-Trimethylbenzene	*5*	**759**	**700**	**766**	**660**	**540**	ANR	**470**	**860**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	**8.2**	**7**	**8.06**	**8.2**	ND	ANR	**9**	**10**
1,2,4-Trimethylbenzene	*5*	**2750**	**2600**	**2810**	**2300**	**1900**	ANR	**540**	**3300**
sec-Butyl-benzene	*5*	ND	8	**8.24**	ND	ND	ANR	ND	**10**
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ANR	ND	ND
Naphthalene	*10*	**1150**	**1800**	**710**	**210**	**680**	ANR	**580B**	**1100**
MTBE	*10*	**838**	**510**	**558**	ND	**450**	ANR	**450**	**320J**
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Anthracene	*50*	ND	ND	ND	2	ND	ANR	ND	ANR
Acenaphthene	*20*	ND	ND	ND	2	1	ANR	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	1	ND	ANR	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	2	ND	ANR	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ANR	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	1	ND	ANR	ND	ANR
Chrysene	*0.002*	ND	ND	ND	2	ND	ANR	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR
Flouranthene	*50*	ND	ND	ND	5	ND	ANR	ND	ANR
Flourene	*50*	ND	ND	ND	4	3	ANR	2J	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR
Phenanthrene	*50*	ND	ND	ND	9	4	ANR	5J	ANR
Pyrene	*50*	ND	ND	ND	4	ND	ANR	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ANR	ND	ANR
Napthalene	*10*	**450**	**340**	**557**	**350**	**250**	ANR	**300**	ANR
Metals (ppb)									
Lead	*25*	18.9	ND	ANR	**55.2**	11.4	ANR	4.25	23.5

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-18S	MW-18S	MW-18S	MW-18S *	MW-18S	MW-18S	MW-18S	MW-18S
SAMPLE DATE		4/14/2004	7/14/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006
Number or Days									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2JB	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	3J
Toluene	*5*	ND	ND	ND	ND	**6**	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	4	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	**54**	ND	**8J**	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	**10**	ND	1J	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	**36**	ND	**6**	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	2	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	**16**	ND	2JB	ND
MTBE	*10*	ND	ND	ND	ND	4	ND	ND	ND
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*								
Anthracene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ANR	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ANR	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ND	ND	ND	ANR	ND	ND	1J	ANR
Metals (ppb)									
Lead	*25*	ND	ND	ANR	3.5	ND	ND	ND	ANR

Notes:

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** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S [+ *]	MW-19S	MW-19S
SAMPLE DATE	*Groundwater*	4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/23/2005	12/14/2005	3/22/2006
Number or Days	*Standards/Criteria*								
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	8JB	8J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2JB	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	3JB
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	ND	ND	ND	ND	ND	ND	ND	ND
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*						ANR	2J	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ANR	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ANR	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ANR	ND	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ANR	ND	ANR
Metals (ppb)									
Lead	*25*	**142**	ANR	ANR	ND	4.05	8.41	22.4	ANR

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S
SAMPLE DATE	*Groundwater*	4/15/2004	7/14/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006
Number or Days	*Standards/Criteria*								
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	7JB	10J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	3JB
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	**9**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**12.6**	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	ND	5	**11.1**	**6**	**5**	2	6	5J
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)									
Lead	*25*	10.1	16.6	ANR	ND	**33.9**	9.16	6.56	ANR

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N
SAMPLE DATE		4/16/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006
Number or Days									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	23JB	13J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3J	ND
Benzene	*0.7*	**150**	**90**	**296**	**75**	**36**	**84**	**150**	**94**
Toluene	*5*	**44.2**	**96**	**905**	**8.0**	**6**	**8**	**6**	**3J**
Ethylbenzene	*5*	**149**	**100**	**446**	**79**	**48**	**61**	**110**	**46**
Total Xylenes	*5*	**160.5**	**400**	**2087**	**230**	**32**	**23**	**71**	**6**
Isopropylbenzene	*5*	**63.4**	**31**	**68.2**	**20**	**9**	**13**	**42**	**58**
n-Propylbenzene	*5*	**51.5**	**19**	**53.4**	**14**	**7**	**8**	**24**	**40**
1,3,5-Trimethylbenzene	*5*	**12.0**	**23.0**	**89.7**	**51**	**5.0**	ND	1	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	2	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**293**	**220**	**266**	**280**	**38**	**54**	**82**	**28**
sec-Butyl-benzene	*5*	ND	2	ND	ND	ND	ND	ND	3J
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**26.6**	**18**	**9.43**	**55**	5	**10**	2JB	ND
MTBE	*10*	ND	ND	ND	ND	ND	4	8	6
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	6	ND	4	1	3	2J	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	2	ND	2	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	1	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	**3J**	ANR
Napthalene	*10*	5.68	**21**	**10**	15	**2**	ND	ND	ANR
Metals (ppb)									
Lead	*25*	21.2	**31.6**	ANR	ND	6.12	**291.0**	3.95	ND

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N
SAMPLE DATE		4/15/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/7/2005	12/15/2005	3/23/2006
Number or Days									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	10JB	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	ND
Benzene	*0.7*	ND	ND	**23.1**	ND	**2**	ND	**2J**	**2J**
Toluene	*5*	ND	3	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	**16**	ND	1	ND	ND	ND
Total Xylenes	*5*	ND	3	**34**	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	4	**22.1**	ND	4	ND	1J	ND
n-Propylbenzene	*5*	ND	1	**13.8**	ND	2	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	3	**51**	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	4	**67.4**	ND	2	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	5.10	ND	ND	ND	4.00	4	5J	3J
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)									
Lead	*25*	18.3	ND	ANR	**27.1**	15.7	3.79	ND	14.7

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N
SAMPLE DATE	*Groundwater*	4/15/2004	7/15/2004	10/13/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006
Number or Days	*Standards/Criteria*								
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	23JB	9J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	**2**	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	1	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	ND	ND	**18.9**	**15**	**10**	**17**	**24**	**22**
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)									
Lead	*25*	**26.1**	**121**	ANR	**206**	**49.3**	**157.0**	**556**	**1330**

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-4N	MW4-N	MW4-N	MW4-N	MW4-N	MW4-N	MW4-N	MW-4N
SAMPLE DATE	*Groundwater*	2/3/2005	4/16/2004	7/15/2004	10/13/2004	5/4/2005	9/8/2005	12/15/2005	3/23/2006
Number or Days	*Standards/Criteria*								
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ANR	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ANR	ND	ND	ND	ND	ND	11J	ND
Acetone	*50*	ANR	ND	ND	ND	ND	ND	ND	**51**
Carbon Disulfide	*50*	ANR	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ANR	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ANR	**2180**	**2690**	**2000**	**1200**	**4400**	**930**	**3400**
Toluene	*5*	ANR	**1580**	**4430**	**3900**	**1800**	**3300**	**630**	**1900**
Ethylbenzene	*5*	ANR	**1560**	**1430**	**1900**	**1100**	**1000**	**550**	**940**
Total Xylenes	*5*	ANR	**7700**	**8990**	**1400**	**6800**	**4700**	**3000**	**4400**
Isopropylbenzene	*5*	ANR	**210**	**235**	**250**	**180**	**160**	**69**	**79**
n-Propylbenzene	*5*	ANR	**165**	**199**	**210**	**180**	**150**	**64**	**70**
1,3,5-Trimethylbenzene	*5*	ANR	**816**	**642**	**650**	**510**	**420**	**190**	**190**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ANR	**9.41**	**10.9**	**13**	ND	ANR	**12**	**5**
1,2,4-Trimethylbenzene	*5*	ANR	**2560**	**1990**	**2000**	**2000**	**1700**	**650**	**1100**
sec-Butyl-benzene	*5*	ANR	**13.0**	**14.7**	**17.0**	ND	ND	ND	ND
n-Butyl-benzene	*5*	ANR	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ANR	**5140**	**1400**	**980**	**2200**	ND	**1000B**	**3300**
MTBE	*10*	ANR	**2230**	**1790**	**870**	**1700**	**2600**	**1200**	**3500**
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ANR	ND	ND	ND	ND	ND	2J	3JB
Anthracene	*50*	ANR	ND	ND	ND	ND	4	2J	1J
Acenaphthene	*20*	ANR	5.42	ND	6	ND	**62**	**35**	**36**
Acenaphthylene	*50*	ANR	ND	ND	ND	ND	ND	ND	1J
Benzo(a)anthracene	*0.002*	ANR	ND	ND	ND	ND	ND	**1J**	ND
Benzo(b,k)flouranthene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND
Chrysene	*0.002*	ANR	ND	ND	ND	ND	ND	1J	ND
Dibenzo(a,h)anthracene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND
Flouranthene	*50*	ANR	ND	ND	ND	ND	5	4J	1J
Flourene	*50*	ANR	ND	ND	2	ND	19	8	7
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	*50*	ANR	ND	ND	3	ND	22	9	8
Pyrene	*50*	ANR	ND	ND	1	ND	4	6	1J
Phenol	*1*	ANR	ND	ND	ND	ND	ND	**6**	**18**
Napthalene	*10*	ANR	**440**	**895**	**480**	**ND**	**940**	**330**	**380**
Metals (ppb)									
Lead	*25*	ANR	**96.2**	ANR	**623**	**135**	**33.1**	**149**	**373**

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N
SAMPLE DATE		4/16/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006
Number or Days									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2JB	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	1J	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	2	3JB	ND
MTBE	*10*	ND	ND	ND	ND	ND	ND	ND	ND
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	2	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)									
Lead	*25*	**26.2**	ND	ANR	ND	9.12	4.12	ND	11.7

Notes:

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4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N
SAMPLE DATE		4/15/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006
Number or Days									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	12J
Acetone	*50*	ND	ND	ND	ND	ND	ND	16JB	44
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	1J
Benzene	*0.7*	**7.93**	**3**	**12.4**	ND	ND	**2**	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	**46.4**	6	**51.6**	ND	**3**	8	3J	4J
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)									
Lead	*25*	21.0	**40.6**	ANR	19.2	**63.4**	**87.4**	**126**	**202**

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N
SAMPLE DATE		4/16/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/7/2005	12/15/2005	3/23/2006
Number or Days									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	19JB	45
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB	4JB
Benzene	*0.7*	ND	ND	ND	ND	3	ND	**2J**	**2J**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND
Total Xylenes	*5*	**16.7**	4.0	ND	ND	2.0	ND	ND	ND
Isopropylbenzene	*5*	ND	2	ND	ND	2	ND	2J	3J
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	1	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**9.78**	2	ND	ND	1	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**37.8**	**12**	ND	ND	**21**	2	2JB	ND
MTBE	*10*	**37.7**	**17**	**21.6**	ND	**10**	**10**	**11**	5J
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	1J	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	2	ND	ND	1	1	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	**17.5**	9	ND	ND	2	ND	ND	ANR
Metals (ppb)									
Lead	*25*	**26.9**	12.9	ANR	1260	**66.4**	**48.1**	**328**	**313**

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 7

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N
SAMPLE DATE		4/15/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006
Number or Days									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	2J	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	20J
Acetone	*50*	ND	ND	ND	ND	ND	ND	**56B**	**76**
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	**8**	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	**21**	ND	**21**	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
p-Isopropyl-toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	1J	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	2	2JB	ND
MTBE	*10*	7.43	4	9.25	ND	ND	ND	ND	ND
Semi Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)									
Lead	*25*	**59.4**	**37.3**	ANR	15.6	**164**	**304**	**128**	**166**

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York

March 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S
SAMPLE DATE		3/27/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007
LABORATORY ID#		0704-00015-002	0704-00015-006	0704-00015-003	0704-00015-004	0704-00015-007	0704-00015-001
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	**75 J,B**	ND	6 J,B
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	2 J, B	**35 J,B**	1 J,B	ND
Benzene	*0.7*	**4 J**	ND	ND	**94**	ND	ND
Toluene	*5*	ND	ND	ND	**51**	ND	ND
Ethylbenzene	*5*	**8**	ND	ND	**350**	ND	ND
Total Xylenes	*5*	ND	ND	ND	**5800**	ND	ND
Isopropylbenzene	*5*	4 J	ND	ND	**50 J**	ND	ND
n-Propylbenzene	*5*	**5**	ND	ND	**73**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**750**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	**11 J**	ND	ND
1,2,4-Trimethylbenzene	*5*	4 J	ND	ND	**3300**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	**10 J**	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	**550**	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**55**	**25**	9	**280**	ND	5
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Total)	*25*	ANR	ANR	ANR	**101**	ANR	ANR

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York

March 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-20S	MW-1N	MW-2N	MW-3N	MW-4N	MW-5N
SAMPLE DATE		3/27/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007
LABORATORY ID#		0704-00015-005	0704-00015-015	0704-00015-016	0704-00015-011	0704-00015-013	0704-00015-014
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	9 J,B	ND	ND	**59 J,B**	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	**110**	ND	ND	**520**	ND
Toluene	*5*	ND	**11**	ND	ND	**16 J**	ND
Ethylbenzene	*5*	ND	**29**	ND	ND	**180**	ND
Total Xylenes	*5*	ND	**210**	ND	ND	**430**	ND
Isopropylbenzene	*5*	ND	**57**	2 J	ND	**24**	ND
n-Propylbenzene	*5*	ND	**41**	ND	ND	**21**	ND
1,3,5-Trimethylbenzene	*5*	ND	**29**	ND	ND	**65**	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	1 J	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	**190**	ND	ND	**180**	ND
sec-Butyl-benzene	*5*	ND	3 J	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	9	ND	ND	**170**	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	ND	3 J	ND	**15**	**180**	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ND	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	16	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	2 J	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	1 J	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	4 J	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	4 J	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	1 J	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	7 J	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	19	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	1 J	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ND	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	**130**	ANR
Metals (ppb)							
Lead (Total)	*25*	ANR	ND	**76.5**	**324**	**788**	12.3

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York

March 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		3/28/2007	3/28/2007	3/28/2007	--	3/27/2007	3/27/2007
LABORATORY ID#		0704-00015-009	0704-00015-012	0704-00015-010	0704-00015-017	0704-00015-008	0704-00015-018
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	5 J,B	5 J,B	ND	ND	ND
Acetone	*50*	15 J,B	45 B	29 B	10 J,B	9 J,B	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	1 J,B	2 J,B
Benzene	*0.7*	ND	ND	ND	**99**	ND	ND
Toluene	*5*	ND	1 J	1 J	**10**	ND	ND
Ethylbenzene	*5*	ND	ND	ND	**27**	ND	ND
Total Xylenes	*5*	ND	ND	ND	**198**	ND	ND
Isopropylbenzene	*5*	ND	**24**	ND	**54**	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	**38**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**28**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	1 J	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	**170**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	3 J	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	8	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	2 J	ND	ND	2 J	ND	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Total)	*25*	**555**	**381**	**456**	ND	ANR	ANR

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 6
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
June 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S
SAMPLE DATE		6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007
LABORATORY ID#		0706-00278-001	0706-00278-002	0706-00278-003	0706-00278-004	0706-00278-005	0706-00278-006
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		**8**	2 J	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND
Acetone	*50*	9 J	10 J	ND	14 J, B	ND	11 J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	**3 J**	ND	ND	**6**	ND	ND
Toluene	*5*	ND	ND	ND	3 J	ND	ND
Ethylbenzene	*5*	2 J	ND	ND	**34**	ND	ND
Total Xylenes	*5*	1 J	ND	ND	**690**	ND	ND
Isopropylbenzene	*5*	2 J	ND	ND	**10**	ND	ND
n-Propylbenzene	*5*	2 J	ND	ND	**22**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**380**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	**5 J**	ND	ND
1,2,4-Trimethylbenzene	*5*	2 J	ND	ND	**730**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	4 J	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	1 J	ND	ND	**110**	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**56**	**38**	**29**	**21**	ND	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,i)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Total)	*25*	ANR	ANR	ANR	**26.9**	ANR	ANR

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 6
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
June 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-20S	MW-1N	MW-2N	MW-3N	MW-4N	MW-5N
SAMPLE DATE		6/26/2007	6/27/2007	6/27/2007	6/27/2007	6/27/2007	6/26/2007
LABORATORY ID#		0706-00278-007	0706-00278-008	0706-00278-009	0706-00278-010	0706-00278-011	0706-00278-012
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	1 J	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	13 J	16 J	ND	**170 B**	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	**100**	**9**	ND	**1900**	ND
Toluene	*5*	ND	**9**	2 J	ND	**96**	ND
Ethylbenzene	*5*	ND	4 J	3 J	ND	**660**	ND
Total Xylenes	*5*	ND	**53**	**6**	ND	**2750**	ND
Isopropylbenzene	*5*	ND	**59**	**13**	ND	**70**	ND
n-Propylbenzene	*5*	ND	**38**	**7**	ND	**60**	ND
1,3,5-Trimethylbenzene	*5*	ND	**11**	**11**	ND	**240**	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	2 J	ND	ND	**5 J**	ND
1,2,4-Trimethylbenzene	*5*	ND	**79**	**10**	ND	**800**	ND
sec-Butyl-benzene	*5*	ND	3 J	ND	ND	**5**	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	9	ND	ND	**630**	3 J
Methyl-Tert-Butyl-Ether (MTBE)	*10*	2 J	2 J	ND	**17**	**1300**	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ND	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	2 J	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	**24**	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ND	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ND	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	4 J	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	10	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	4 J	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	**110**	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	19	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	**14**	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ND	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	**310**	ANR
Metals (ppb)							
Lead (Total)	*25*	ANR	15.2	**29**	**544**	**218**	**39.9**

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 6
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
June 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		6/27/2007	6/27/2007	6/27/2007	--	6/27/2007	
LABORATORY ID#		0706-00278-013	0706-00278-014	0706-00278-015	0706-00278-018	0706-00278-016	0706-00278-017
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	18 J	ND	8 J	ND
Acetone	*50*	18 J, B	25 J, B	25 B	19 J,B	**46 B**	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	ND	ND	**6**	ND	ND
Toluene	*5*	ND	ND	**9**	3 J	ND	ND
Ethylbenzene	*5*	ND	ND	ND	**32**	ND	ND
Total Xylenes	*5*	ND	ND	ND	**670**	ND	ND
Isopropylbenzene	*5*	ND	**41**	ND	**10**	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	**20**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**370**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	**5 J**	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	**740**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	4 J	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	**110**	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	ND	ND	ND	**21**	ND	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Total)	*25*	**280**	**398**	**1630**	**29**	ANR	ANR

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 7
Gauging Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York
July, August and October 2007

July 26, 2007

WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
MW-1N	210	ND	16.56	11.10	5.46
MW-2N	77	ND	16.91	11.43	5.48
MW-3N	81	ND	16.62	11.20	5.42
MW-4N	412	ND	16.19	10.63	5.56
MW-5N	Not Accesible	Not Accesible	Not Accesible	Not Accesible	Not Accesible
MW-8N	Not Accesible	Not Accesible	Not Accesible	Not Accesible	Not Accesible
MW-9N	0	ND	15.73	10.35	5.38
MW-10N	0	ND	16.90	11.48	5.42
MW-11S	8.4	ND	16.64	11.25	5.39
MW-12S	0.5	ND	16.76	11.30	5.46
MW-13S	1.1	ND	16.65	11.15	5.50
MW-14S	130	ND	16.29	10.85	5.44
MW-18S	0	ND	15.79	10.43	5.36
MW-19S	2.2	ND	16.36	10.87	5.49
MW-20S	0	ND	15.62	10.20	5.42

August 30, 2007

WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
MW-1N	10.5	ND	16.56	10.78	5.78
MW-2N	101	ND	16.91	11.10	5.81
MW-3N	21.1	ND	16.62	10.80	5.82
MW-4N	129	ND	16.19	10.30	5.89
MW-5N	167	ND	15.99	10.63	5.36
MW-8N	26.4	ND	16.39	10.54	5.85
MW-9N	14.2	ND	15.73	10.00	5.73
MW-10N	23	ND	16.90	11.10	5.80
MW-11S	61.4	ND	16.64	10.87	5.77

Table 7
Gauging Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York
July, August and October 2007

July 26, 2007

WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
MW-12S	79.9	ND	16.76	10.92	5.84
MW-13S	216	ND	16.65	10.80	5.85
MW-14S	2000	ND	16.29	10.45	5.84
MW-18S	97.7	ND	15.79	10.08	5.71
MW-19S	1510	ND	16.36	10.50	5.86
MW-20S	2000	ND	15.62	9.85	5.77

October 2 & 3, 2007

WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
MW-1N	194	ND	16.56	11.16	5.40
MW-2N	0	ND	16.91	11.44	5.47
MW-3N	0	ND	16.62	11.10	5.52
MW-4N	1467	ND	16.19	10.60	5.59
MW-5N	58.6	ND	15.99	10.60	5.39
MW-8N	43.2	ND	16.39	10.90	5.49
MW-9N	0	ND	15.73	10.25	5.48
MW-10N	0	ND	16.90	11.35	5.55
MW-11S	0	ND	16.64	11.22	5.42
MW-12S	0	ND	16.76	11.30	5.46
MW-13S	81.4	ND	16.65	11.22	5.43
MW-14S	3.3	ND	16.29	10.89	5.40
MW-18S	0	ND	15.79	10.52	5.27
MW-19S	42.9	ND	16.36	10.92	5.44
MW-20S	0	ND	15.62	10.25	5.37

Notes:
NM - Reference Elevations Not Measured
NA - Not Applicable

Table 9
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
October 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S	MW-1N	MW-2N
SAMPLE DATE		10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/3/2007
LABORATORY ID#		0710-00068-021	0710-00068-023	0710-00068-019	0710-00068-020	0710-00068-022	0710-00068-018	0710-00068-017	0710-00068-024	0710-00068-009
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	13 J	ND	ND	17 J	ND	13 J	ND	26 B	15 J,B
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	2 J,B	ND	ND	ND	ND	1 J,B	ND	ND	ND
Benzene	*0.7*	**22**	ND	ND	**7**	ND	ND	ND	**110**	**8**
Toluene	*5*	1 J	ND	ND	3 J	ND	ND	ND	**28**	2 J
Ethylbenzene	*5*	**48**	ND	ND	**20**	ND	ND	ND	**18**	3 J
Total Xylenes	*5*	**11 J**	ND	ND	**320**	ND	ND	ND	**270**	**5 J**
Isopropylbenzene	*5*	**7**	ND	ND	3 J	ND	ND	ND	**60**	**12**
n-Propylbenzene	*5*	**9**	ND	ND	**5 J**	ND	ND	ND	**50**	**8**
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**91**	ND	ND	ND	**48**	**11**
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	1 J	ND	ND	ND	2 J	ND
1,2,4-Trimethylbenzene	*5*	**30**	ND	ND	**190**	ND	ND	ND	**130**	3
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	4 J	1 J
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	8	ND	ND	**40**	ND	ND	ND	**12**	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**140**	**19**	**24**	**21**	ND	ND	7	ND	4 J
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)										
Lead (Total)	*25*	ANR	ANR	ANR	**49**	ANR	ANR	ANR	**32**	**36**

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 9
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
October 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-3N	MW-4N	MW-5N	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		10/3/2007	10/3/2007	10/3/2007	10/3/2007	10/3/2007	10/3/2007	10/3/2007	10/4/2007	10/2/2007
LABORATORY ID#		0710-00068-010	0710-00068-011	0710-00068-012	0710-00068-013	0710-00068-014	0710-00068-015	0710-00068-016	0710-00068-008	0710-00068-025
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	**3 J**	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	11 J	35	14 J	14 J	**78**	12 J	41	36	13 J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	2 J,B	2 J,B	1 J,B	ND	3 J,B	4 J,B
Benzene	*0.7*	ND	**1200**	ND	ND	ND	ND	**1200**	ND	ND
Toluene	*5*	ND	**63**	1 J	ND	ND	1 J	**57**	ND	ND
Ethylbenzene	*5*	ND	**480**	ND	ND	ND	ND	**400**	ND	ND
Total Xylenes	*5*	ND	**1630**	ND	ND	ND	ND	**1,300**	ND	ND
Isopropylbenzene	*5*	ND	**37**	1 J	ND	**170**	ND	**31**	ND	ND
n-Propylbenzene	*5*	ND	**34**	ND	ND	ND	ND	**26**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	**110**	ND	ND	ND	ND	**86**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	2 J	ND	ND	ND	ND	2 J	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	**450**	ND	ND	ND	ND	**310**	ND	ND
sec-Butyl-benzene	*5*	ND	3 J	ND	ND	ND	ND	2 J	ND	ND
n-Butyl-benzene	*5*	ND	3 J	ND	ND	ND	ND	1 J	ND	ND
Naphthalene	*10*	ND	**310**	ND	ND	ND	ND	**140**	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**19**	**650**	ND	7	5 J	5 J	**500**	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)										
Lead (Total)	*25*	**180**	**540**	**30**	**150**	**760**	**190**	**390**	<10	ANR

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 10
Gauging Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York
October and December 2007

October 23, 2007

DATE	WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
10/23/07	MW-1N	*	ND	16.56	11.10	5.46
10/23/07	MW-2N	*	ND	16.91	11.40	5.51
10/23/07	MW-3N	*	ND	16.62	11.15	5.47
10/23/07	MW-4N	*	ND	16.19	10.70	5.49
10/23/07	MW-5N	*	ND	15.99	10.57	5.42
10/23/07	MW-8N	*	ND	16.39	11.07	5.32
10/23/07	MW-9N	*	ND	15.73	10.35	5.38
10/23/07	MW-10N	*	ND	16.90	11.35	5.55
10/23/07	MW-11S	*	ND	16.64	11.05	5.59
10/23/07	MW-12S	*	ND	16.76	11.10	5.66
10/23/07	MW-13S	*	ND	16.65	11.05	5.60
10/23/07	MW-14S	*	ND	16.29	10.75	5.54
10/23/07	MW-18S	*	ND	15.79	10.55	5.24
10/23/07	MW-19S	*	ND	16.36	10.85	5.51
10/23/07	MW-20S	*	ND	15.62	10.20	5.42

December 19 & 20, 2007

DATE	WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
12/20/07	MW-1N	187	ND	16.56	11.67	4.89
12/20/07	MW-2N	87.3	ND	16.91	11.97	4.94
12/20/07	MW-3N	62.5	ND	16.62	11.61	5.01
12/20/07	MW-4N	196	ND	16.19	11.08	5.11
12/19/07	MW-5N	NM	ND	15.99	11.00	4.91
12/20/07	MW-8N	25.3	ND	16.39	11.52	4.87
12/20/07	MW-9N	0.0	ND	15.73	10.79	4.94
12/19/07	MW-10N	6.0	ND	16.90	12.00	4.90
12/19/07	MW-11S	40.8	ND	16.64	11.85	4.79
12/19/07	MW-12S	3.9	ND	16.76	11.96	4.80
12/19/07	MW-13S	3.1	ND	16.65	11.80	4.85
12/19/07	MW-14S	24.7	ND	16.29	11.48	4.81
12/19/07	MW-18S	1.6	ND	15.79	10.88	4.91
12/19/07	MW-19S	2.4	ND	16.36	11.45	4.91
12/19/07	MW-20S	1.0	ND	15.62	10.83	4.79

Notes:
NM - Not Measured
NA - Not Applicable
* - PID failed to work

Table 12
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
December 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S	MW-1N	MW-2N
SAMPLE DATE		12/19/2007	12/19/2007	12/19/2007	12/19/2007	12/19/2007	12/19/2007	12/19/2007	12/20/2007	12/20/2007
LABORATORY ID#		071200220-002	071200220-005	071200220-004	071200220-006	071200220-003	071200220-001	071200220-007	071200220-012	071200220-014
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	10 J	45	ND	17 J	ND	31	ND	15 J	12 J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	**21**	ND	ND	**9**	ND	ND	ND	**170**	**3 J**
Toluene	*5*	2 J	ND	ND	2 J	ND	ND	ND	**79**	1 J
Ethylbenzene	*5*	**44**	ND	ND	**33**	ND	1 J	ND	**260**	2 J
Total Xylenes	*5*	**63**	1 J	1 J	**219**	2 J	**5 J**	ND	**1070**	**7 J**
Isopropylbenzene	*5*	**6**	ND	ND	**5 J**	ND	ND	ND	**130**	**7**
n-Propylbenzene	*5*	**5**	ND	ND	**9**	ND	ND	ND	**100**	4 J
1,3,5-Trimethylbenzene	*5*	**10**	ND	ND	**75**	ND	ND	ND	**130**	3 J
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	1 J	ND	ND	ND	4 J	ND
1,2,4-Trimethylbenzene	*5*	**68**	ND	ND	**160**	1 J	2 J	ND	**320**	**5 J**
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	**7**	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	4 J	ND
Naphthalene	*10*	8	ND	ND	**47**	ND	ND	ND	**11**	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**110**	**19**	**13**	**26**	ND	ND	**10**	5 J	5 J
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)										
Lead (Total)	*25*	ANR	ANR	ANR	13.2	ANR	ANR	ANR	24.9	**47.8**

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 12
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
December 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-3N	MW-4N	MW-5N	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		12/20/2007	12/20/2007	12/19/2007	12/20/2007	12/20/2007	12/19/2007	12/20/2007	12/20/2007	
LABORATORY ID#		071200220-015	071200220-010	071200220-009	071200220-011	071200220-013	071200220-008	071200220-016	071200220-017	
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	
Acetone	*50*	28	28	ND	13 J	15 J	13 J	15 J	10 J	
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	*0.7*	ND	**1500**	ND	ND	ND	ND	**160**	ND	
Toluene	*5*	ND	**75**	ND	ND	ND	4 J	**77**	ND	
Ethylbenzene	*5*	ND	**1100**	2 J	ND	1 J	ND	**230**	ND	
Total Xylenes	*5*	ND	**2790**	**5 J**	ND	4 J	ND	**1,020**	ND	
Isopropylbenzene	*5*	ND	**120**	ND	ND	**180**	ND	**130**	ND	
n-Propylbenzene	*5*	ND	**110**	ND	ND	ND	ND	**100**	ND	
1,3,5-Trimethylbenzene	*5*	ND	**350**	2 J	ND	ND	ND	**120**	ND	
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	
4-Isopropyltoluene	*5*	ND	**6**	ND	ND	ND	ND	4 J	ND	
1,2,4-Trimethylbenzene	*5*	ND	**1200**	4 J	ND	2	ND	**310**	ND	
sec-Butyl-benzene	*5*	ND	**7**	ND	ND	ND	ND	**7**	ND	
n-Butyl-benzene	*5*	ND	**6**	ND	ND	ND	ND	4 J	ND	
Naphthalene	*10*	ND	**860**	**13**	ND	ND	ND	**10**	ND	
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**13**	**680**	ND	6	5	4 J	5 J	ND	
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Anthracene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Acenaphthene	*20*	ANR	**65 J**	ANR	ANR	ANR	ANR	ANR	ND	
Di-n-butylphthalate		ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Acenaphthylene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Benzo(a)anthracene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Benzo(b,k)flouranthene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Benzo(g,h,I)perylene	*5*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Benzo(a)pyrene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Chrysene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Dibenzo(a,h)anthracene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Dibenzofuran		ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Fluoranthene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Fluorene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Phenanthrene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Pyrene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
3&4-Methyl Phenol		ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
2-Methylnaphthalene	*50*	ANR	**65 J**	ANR	ANR	ANR	ANR	ANR	ND	
2-Methyl Phenol	*5*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Phenol	*1*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Napthalene	*10*	ANR	**850**	ANR	ANR	ANR	ANR	ANR	ND	
Metals (ppb)										
Lead (Total)	*25*	**612**	**395**	20.3	**65**	**287**	**909**	**25.5**	ND	

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-11S	4/14/2004	11.49	**9.55**	ND	**13.1**	**43.2**	ND	ND	**6.63**	ANR	ND	**106**	ND	ND	ND	**260**	**438**
	7/13/2004	11.18	**48**	**12**	**290**	**322.0**	**21**	**33**	**35**	ANR	ND	**600**	2	ND	**120**	**860**	**2343**
	10/14/2004	10.77	**27.6**	ND	**99.2**	**72.74**	**9.93**	**15.3**	**7.98**	ANR	ND	**191**	ND	ND	**56.3**	**484**	**964**
	2/2/2005	11.82	**2**	ND	4	**14**	ND	ND	3	ANR	ND	**29**	ND	ND	ND	**86**	**138**
	5/4/2005	11.54	**160**	97	**440**	**1,040**	**23**	**26**	ND	ANR	ND	**510**	ND	ND	**83**	**890**	**3269**
	12/14/2005	11.50	**21**	ND	ND	**19**	ND	ND	ND	ANR	ND	**130**	ND	ND	**13B**	**210**	**380**
	3/22/2006	11.75	**18**	1J	ND	**52**	7	9	8	ANR	ND	**83**	ND	ND	**13B**	**230**	**407**
	6/13/2006	11.57	**17**	1	**45**	**24**	7	8	4	ANR	ND	**84**	ND	ND	**10**	**210**	**410**
	9/27/2006	11.67	**38**	1J	**110**	**12J**	**13**	**18**	ND	ND	ND	**170**	1J	ND	**17**	**280**	**646**
	12/19/2006	11.60	**11**	1J	**32**	2J	**5**	**7**	ND	ND	ND	**38**	ND	ND	5	**55**	**153**
	3/27/2007	11.66	**4 J**	ND	**8**	ND	4 J	**5**	ND	ND	ND	4 J	ND	ND	ND	**55**	**80**
	6/26/2007	11.40	**3 J**	ND	**2 J**	**1 J**	**2 J**	**2 J**	ND	ND	ND	2 J	ND	ND	**1 J**	**56**	**69**
	10/2/2007	11.22	**22**	1 J	**48**	**11 J**	**7**	**9**	ND	ND	ND	**30**	ND	ND	8	**140**	**276**
	12/19/2007	11.85	**21**	2	**44**	**63**	**6**	**5**	**10**	ND	ND	**68**	ND	ND	8	**110**	**337**
MW-12S	4/14/2004	11.58	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**69.2**	**69**
	7/14/2004	11.26	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**28**	**28**
	10/14/2004	10.84	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**30**	**30**
	2/2/2005	11.92	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**23**	**23**
	5/4/2005	11.50	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**59**	**59**
	9/7/2005	11.41	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**43**	**43**
	12/14/2005	11.56	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	6	6
	3/22/2006	11.56	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**22**	**22**
	6/13/2006	11.74	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	3	**30**	**33**
	9/27/2006	11.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**28**	**28**
	12/19/2006	11.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**24**	**24**
	3/27/2007	11.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**25**	**25**
	6/26/2007	11.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**38**	**38**
	10/2/2007	11.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**19**	**19**
	12/19/2007	11.96	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**19**	**20**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-13S	4/14/2004	11.48	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**52.5**	**53**
	7/13/2004	11.16	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**37**	**37**
	10/13/2004	10.76	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**32.2**	**32**
	2/2/2005	11.75	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**11**	**11**
	5/4/2005	11.39	ND	ND	ND	ND	ND	ND	ND	ANR	ND	1	ND	ND	ND	**20**	**21**
	9/7/2005	11.54	ND	ND	ND	ND	2	ND	ND	ANR	ND	ND	ND	ND	ND	**92**	**94**
	12/14/2005	11.65	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**41**	**41**
	3/22/2006	11.59	**2J**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	6/15/2006	11.45	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**37**	**37**
	9/27/2006	10.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1J	**35**	**35**
	12/19/2006	11.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17**	**17**
	3/27/2007	11.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	9
	6/26/2007	11.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**29**	**29**
	10/2/2007	11.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**24**	**24**
	12/19/2007	11.80	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13**	**14**
MW-14S	4/14/2004	11.15	**445**	**1730**	**1130**	**11370**	**90.6**	**185**	**759**	ANR	ND	**2750**	ND	ND	**1150**	**838**	**20448**
	7/13/2004	10.84	**120**	**710**	**650**	**7500**	**50**	**90**	**700**	ANR	ND	**2600**	8	ND	**1800**	**510**	**14738**
	10/13/2004	10.35	**264**	**843**	**653**	**9450**	**61.8**	**106**	**766**	ANR	ND	**2810**	**8.24**	ND	**710**	**558**	**16230**
	2/2/2005	11.44	ND	**170**	**180**	**4700**	ND	ND	**660**	ANR	ND	**2300**	ND	ND	**210**	ND	**8220**
	5/4/2005	11.09	**100**	**610**	**410**	**5200**	ND	**70**	**540**	ANR	ND	**1900**	ND	ND	**680**	**450**	**9960**
	9/7/2005*	11.21	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR
	12/14/2005	11.28	**78**	**320**	**68**	**3100**	**12**	6	**470**	ANR	ND	**540**	ND	ND	**580B**	**450**	**5044**
	3/22/2006	11.22	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**37**	**37**
	6/13/2006	11.28	**36**	**32**	**190**	**1,760**	**43**	**95**	**360**	ANR	**9**	**1,400**	ND	ND	**180**	**180**	**4285**
	9/27/2006	10.92	**44**	**48**	**66**	**1,490**	**10**	**16**	**370**	ND	4J	**830**	2J	ND	**170**	**160**	**3204**
	12/19/2006	11.61	**38J**	**34J**	**77**	**1,500**	**10J**	**21J**	**340**	ND	**17J**	**980**	ND	ND	**170**	**130**	**3197**
	3/27/2007	11.26	**94**	**51**	**350**	**5,800**	**50 J**	**73**	**750**	ND	**11 J**	**3,300**	**10 J**	ND	**550**	**280**	**11319**
	6/26/2007	11.05	**6**	3 J	**34**	**690**	**10**	**22**	**380**	ND	**5 J**	**730**	**4 J**	ND	**110**	**21**	**2015**
	10/2/2007	10.89	**7**	3 J	**20**	**320**	3 J	**5 J**	**91**	ND	1 J	**190**	ND	ND	**40**	**21**	**741**
	12/19/2007	11.48	**9**	2 J	**33**	**219**	**5 J**	**9**	**75**	ND	1 J	**160**	ND	ND	**47**	**26**	**586**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-18S	4/14/2004	10.39	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	7/14/2004	10.82	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	10/13/2004	10.60	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	2/2/2005	10.37	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	9.96	ND	**6**	4	**54**	ND	1	**10**	ANR	ND	**36**	ND	2	**16**	4	**133**
	9/7/2005	10.82	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	12/14/2005	11.28	ND	ND	ND	**8J**	ND	ND	1J	ANR	ND	**6**	ND	ND	2JB	ND	6
	3/22/2006	11.22	3J	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	6/13/2006	11.28	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	1.3	ND	1
	9/27/2006	10.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2006	11.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/27/2007	10.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/26/2007	10.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	10/2/2007	10.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2007	10.88	ND	ND	ND	2 J	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	3
MW-19S	4/14/2004	10.85	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	7/13/2004	10.40	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	10/13/2004	11.38	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	2/2/2005	11.03	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	11.22	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	9/23/2005	11.09	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	12/14/2005	11.00	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	3/22/2006	10.48	3JB	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	6/13/2006	11.18	**3**	1	1	1	ND	ND	ND	ANR	ND	1	ND	ND	3	ND	**10**
	9/27/2006	10.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2006	11.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/27/2007	11.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	5
	6/26/2007	11.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	10/2/2007	10.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2007	11.40	ND	ND	1 J	**5 J**	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	8

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-20S	4/15/2004	10.16	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	**12.6**	ND	**13**
	7/14/2004	9.83	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	5	5
	10/13/2004	10.86	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**11.1**	**11**
	2/2/2005	10.45	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**6**	6
	5/4/2005	10.68	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**5**	5
	9/7/2005	11.51	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	2	2
	12/14/2005	11.28	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	6	6
	3/22/2006	11.22	**9**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	5J	9
	6/13/2006	11.28	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	1	4	5
	9/27/2006	10.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	0
	12/19/2006	10.42	**1J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	2J	0
	3/27/2007	10.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/26/2007	10.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	2
	10/2/2007	10.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	7
	12/19/2007	10.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10**	**10**
MW-1N	4/16/2004	11.79	**150**	**44.2**	**149**	**160.5**	**63.4**	**51.5**	**12.0**	ANR	ND	**293**	ND	ND	**26.6**	ND	**950**
	7/14/2004	11.32	**90**	**96**	**100**	**400**	**31**	**19**	**23.0**	ANR	2	**220**	2	ND	**18**	ND	**1001**
	10/14/2004	10.72	**296**	**905**	**446**	**2087**	**68.2**	**53.4**	**89.7**	ANR	ND	**266**	ND	ND	**9.43**	ND	**4221**
	2/3/2005	11.64	**75**	**8.0**	**79**	**230**	**20**	**14**	**51**	ANR	ND	**280**	ND	ND	**55**	ND	**812**
	5/4/2005	11.37	**36**	**6**	**48**	**32**	**9**	**7**	**5.0**	ANR	ND	**38**	ND	ND	5	ND	**186**
	9/8/2005	11.40	**84**	**8**	**61**	**23**	**13**	**8**	ND	ANR	ND	**54**	ND	ND	**10**	4	**265**
	12/15/2005	11.35	**150**	**6**	**110**	**71**	**42**	**24**	1	ANR	ND	**82**	ND	ND	2JB	8	**494**
	3/23/2006	11.68	**94**	**3J**	**46**	**6**	**58**	**40**	ND	ANR	ND	**28**	3J	ND	ND	6	**278**
	6/15/2006	11.61	**98**	**5**	**21**	**7**	**50**	**32**	ND	ANR	ND	**34**	3	ND	3	3	**256**
	9/27/2006	11.13	**200**	**55**	**262**	**82**	**61**	**32**	**12**	ND	1J	**95**	ND	ND	4J	1J	**799**
	12/19/2006	11.40	**170**	**19**	**57**	**251**	**93**	**68**	**31**	ND	3J	**140**	**5**	ND	**11**	ND	**845**
	3/28/2007	11.90	**110**	**11**	**29**	**210**	**57**	**41**	**29**	ND	1 J	**190**	3 J	ND	9	3 J	**693**
	6/27/2007	11.33	**100**	**9**	4 J	**53**	**59**	**38**	**11**	ND	2 J	**79**	3 J	ND	9	2 J	**369**
	10/2/2007	11.16	**110**	**28**	**18**	**270**	**60**	**50**	**48**	ND	2 J	**130**	4 J	ND	**12**	ND	**732**
	12/20/2007	11.61	**170**	**79**	**260**	**1070**	**130**	**100**	**130**	ND	4 J	**320**	**7**	4 J	**11**	5 J	**2290**

Table 13
Historial Data
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Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-2N	4/15/2004	12.09	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	5.10	5
	7/14/2004	11.62	ND	3	ND	3	4	1	3	ANR	ND	4	ND	ND	ND	ND	**18**
	10/14/2004	11.09	**23.1**	ND	**16**	**34**	**22.1**	**13.8**	**51**	ANR	ND	**67.4**	ND	ND	ND	ND	**228**
	2/3/2005	11.96	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	11.70	**2**	ND	1	ND	4	2	ND	ANR	ND	2	ND	ND	ND	4.00	**15**
	9/7/2005	11.74	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	4	4
	12/15/2005	11.65	**2J**	ND	ND	ND	1J	ND	ND	ANR	ND	ND	ND	ND	ND	5J	0
	3/23/2006	11.98	**2J**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	3J	0
	6/14/2006	11.67	**3**	ND	ND	ND	3	1.0	ND	ANR	ND	ND	ND	ND	1.0	1	9
	9/27/2006	11.36	**7**	2J	4J	**7J**	**14**	**8**	**12**	ND	ND	**13**	ND	ND	1J	1J	**54**
	12/19/2006	11.60	2J	1J	4J	3J	7	3J	4J	ND	ND	3J	ND	ND	ND	1J	7
	3/28/2007	12.24	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
	6/27/2007	11.65	**9**	2 J	3 J	**6**	**13**	**7**	**11**	ND	ND	**10**	ND	ND	ND	ND	**61**
	10/3/2007	11.44	**8**	2 J	3 J	**5 J**	**12**	**8**	**11**	ND	ND	3	1 J	ND	ND	4 J	**57**
	12/20/2007	11.97	**3 J**	1 J	2 J	**7 J**	**7**	4 J	3 J	ND	ND	**5 J**	ND	ND	ND	5 J	**37**
MW-3N	4/15/2004	11.71	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	7/15/2004	11.33	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	10/13/2004	10.82	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**18.9**	**19**
	2/3/2005	11.73	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**15**	**15**
	5/4/2005	11.43	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**10**	**10**
	9/8/2005	11.32	**2**	1	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**17**	**20**
	12/15/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**24**	**24**
	3/23/2006	11.72	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**22**	**22**
	6/14/2006	11.60	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	9	9
	9/28/2006	11.16	**2J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**22**	**22**
	12/19/2006	11.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**20**	**20**
	3/28/2007	11.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**15**	**15**
	6/27/2007	11.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17**	**17**
	10/3/2007	11.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**19**	**19**
	12/20/2007	11.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13**	**13**

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Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-4N	2/3/2005	11.31	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR
	4/16/2004	10.84	**2180**	**1580**	**1560**	**7700**	**210**	**165**	**816**	ANR	**9.41**	**2560**	**13.0**	ND	**5140**	**2230**	**24163**
	7/15/2004	10.35	**2690**	**4430**	**1430**	**8990**	**235**	**199**	**642**	ANR	**10.9**	**1990**	**14.7**	ND	**1400**	**1790**	**23822**
	10/13/2004	10.96	**2000**	**3900**	**1900**	**1400**	**250**	**210**	**650**	ANR	**13**	**2000**	**17.0**	ND	**980**	**870**	**14190**
	5/4/2005	11.00	**1200**	**1800**	**1100**	**6800**	**180**	**180**	**510**	ANR	ND	**2000**	ND	ND	**2200**	**1700**	**17670**
	9/8/2005	11.91	**4400**	**3300**	**1000**	**4700**	**160**	**150**	**420**	ANR	ND	**1700**	ND	ND	ND	**2600**	**18430**
	12/15/2005	11.25	**930**	**630**	**550**	**3000**	**69**	**64**	**190**	ANR	**12**	**650**	ND	ND	**1000B**	**1200**	**7295**
	3/23/2006	11.03	**3400**	**1900**	**940**	**4400**	**79**	**70**	**190**	ANR	**5**	**1100**	ND	ND	**3300**	**3500**	**18884**
	6/14/2006	11.03	**1200**	**300**	**400**	**1730**	**57**	**49**	**140**	ANR	4	ND	ND	ND	**210**	**920**	**5010**
	9/28/2006	10.70	**1300**	**270**	**519**	**2277**	**66**	**57**	**160**	ND	4J	**600**	4J	ND	**430**	**600**	**6279**
	12/20/2006	11.06	**1100**	**95J**	**410**	**1570**	**60J**	**57J**	**140**	ND	ND	**510**	ND	ND	**320**	**560**	**4610**
	3/28/2007	11.48	**520**	**16 J**	**180**	**430**	**24**	**21**	**65**	ND	ND	**180**	ND	ND	**170**	**180**	**1786**
	6/27/2007	10.82	**1900**	**96**	**660**	**2750**	**70**	**60**	**240**	ND	**5 J**	**800**	**5**	ND	**630**	**1300**	**8516**
	10/3/2007	10.60	**1200**	**63**	**480**	**1630**	**37**	**34**	**110**	ND	2 J	**450**	3 J	3 J	**310**	**650**	**4972**
	12/20/2007	11.08	**1500**	**75**	**1100**	**2790**	**120**	**110**	**350**	ND	**6**	**1200**	**7**	**6**	**860**	**680**	**8804**
MW-5N	4/16/2004	11.11	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	7/15/2004	10.73	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	10/14/2004	10.19	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	2/3/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	10.85	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	9/8/2005	10.75	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	2	ND	2
	12/15/2005	11.80	ND	ND	ND	1J	ND	ND	ND	ANR	ND	ND	ND	ND	3JB	ND	0
	3/23/2006	11.20	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	6/14/2006	11.02	**2**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	1	ND	3
	9/27/2006	10.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4J	ND	0
	12/19/2006	11.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/28/3007	11.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/26/2007	10.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	3
	10/3/2007	10.60	ND	1 J	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
	12/19/2007	11.00	ND	ND	2 J	**5 J**	ND	ND	2 J	ND	ND	4 J	ND	ND	**13**	ND	**26**

Table 13
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Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-8N	4/15/2004	11.54	**7.93**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**46.4**	**54**
	7/15/2004	11.18	**3**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	6	9
	10/14/2004	10.55	**12.4**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**51.6**	**64**
	2/3/2005	11.47	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	11.10	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**3**	3
	9/8/2005	11.23	**2**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	8	**10**
	12/15/2005	11.25	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	3J	0
	3/23/2006	11.54	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	4J	0
	6/14/2006	11.33	**3**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	3
	9/28/2006	10.89	**2J**	1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	5
	12/19/2006	11.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3J	3
	3/28/2007	11.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	2
	6/27/2007	11.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	10/3/2007	10.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	7
	12/20/2007	11.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	6
MW-9N	4/16/2004	11.89	ND	ND	ND	**16.7**	ND	ND	ND	ANR	ND	**9.78**	ND	ND	**37.8**	**37.7**	**102**
	7/15/2004	10.52	ND	ND	ND	4.0	2	ND	1	ANR	ND	2	ND	ND	**12**	**17**	**38**
	10/14/2004	9.98	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**21.6**	**22**
	2/3/2005	10.88	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	10.61	3	ND	1	2.0	2	ND	ND	ANR	ND	1	ND	ND	**21**	**10**	**40**
	9/7/2005	10.70	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	2	**10**	**12**
	12/15/2005	10.58	**2J**	ND	ND	ND	2J	ND	ND	ANR	ND	ND	ND	ND	2JB	**11**	**11**
	3/23/2006	10.78	**2J**	ND	ND	ND	3J	ND	ND	ANR	ND	ND	ND	ND	ND	5J	0
	6/15/2006	10.78	**1**	ND	ND	ND	3	ND	ND	ANR	ND	ND	ND	ND	5	8	**17**
	9/28/2006	10.31	**2J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	6	6
	12/19/2006	10.74	ND	ND	ND	ND	**78**	ND	ND	ND	ND	ND	ND	ND	3J	7	**85**
	3/28/2007	11.05	ND	1 J	ND	ND	**24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**25**
	6/27/2007	10.57	ND	ND	ND	ND	**41**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**41**
	10/3/2007	10.25	ND	ND	ND	ND	**170**	ND	ND	ND	ND	ND	ND	ND	ND	5 J	**175**
	12/20/2007	10.79	ND	ND	1 J	4 J	**180**	ND	ND	ND	ND	2	ND	ND	ND	5	**192**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
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SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-10N	4/15/2004	11.69	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	7.43	7
	7/14/2004	11.98	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	4	4
	10/14/2004	11.58	ND	ND	ND	**21**	ND	ND	ND	ANR	ND	ND	ND	ND	ND	9.25	**30**
	2/3/2005	11.08	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	11.92	ND	ND	ND	**21**	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	**21**
	9/8/2005	11.64	ND	**8**	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	2	ND	**10**
	12/15/2005	11.64	ND	ND	ND	ND	ND	ND	ND	ANR	ND	1J	ND	ND	2JB	ND	0
	3/23/2006	12.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/14/2006	11.88	2	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	2
	9/28/2006	11.43	ND	**32**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**32**
	12/20/2006	11.82	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/28/2007	12.28	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
	6/27/2007	11.64	ND	**9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9
	10/3/2007	11.35	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5 J	6
	12/19/2007	12.00	ND	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	8

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York States GA Standard**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-11S	4/14/2004	11.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	7/13/2004	11.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/14/2004	10.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.82	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				2	6.60
	5/4/2005	11.54	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND				5	13.5
	12/14/2005	11.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	13.8
	3/22/2006	11.75	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.57	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	11.67	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	11.66	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	11.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	8	ANR
	12/19/2007	11.85	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
MW-12S	4/14/2004	11.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	7/14/2004	11.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/14/2004	10.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	11.1
	5/4/2005	11.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	5.62
	9/7/2005	11.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	8.10
	12/14/2005	11.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**36**
	3/22/2006	11.56	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.74	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	11.36	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.53	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	11.74	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	11.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	11.30	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2007	11.96	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR

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Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-13S	4/14/2004	11.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	7/13/2004	11.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/13/2004	10.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	10.4
	5/4/2005	11.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	12.4
	9/7/2005	11.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	12/14/2005	11.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	3/22/2006	11.59	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/15/2006	11.45	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	10.98	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.45	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	11.65	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	11.35	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2007	11.80	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
MW-14S	4/14/2004	11.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	18.9
	7/13/2004	10.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/13/2004	10.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.44	2	2	1	2	ND	ND	1	2	ND	5	4	ND	9	4				32	**55.2**
	5/4/2005	11.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	4	ND				7	11.4
	9/7/2005*	11.21	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/14/2005	11.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	4.25
	3/22/2006	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	23.5
	6/13/2006	11.28	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	14
	9/27/2006	10.92	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	11.7
	12/19/2006	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**31.2**
	3/27/2007	11.26	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**101**
	6/26/2007	11.05	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**26.9**
	10/2/2007	10.89	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**49**
	12/19/2007	11.48	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	13.2

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SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-18S	4/14/2004	10.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	7/14/2004	10.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/13/2004	10.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	10.37	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	3.5
	5/4/2005	9.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	9/7/2005	10.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	12/14/2005	11.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	3/22/2006	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.28	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	10.92	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	10.30	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	10.50	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	10/2/2007	10.52	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	12/19/2007	10.88	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
MW-19S	4/14/2004	10.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**142**
	7/13/2004	10.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	10/13/2004	11.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	5/4/2005	11.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	4.05
	9/23/2005	11.09	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	8.41
	12/14/2005	11.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	22.4
	3/22/2006	10.48	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.18	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	10.87	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.02	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	11.21	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	11.00	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	10.92	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2007	11.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR

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			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-20S	4/15/2004	10.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	10.1
	7/14/2004	9.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	16.6
	10/13/2004	10.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	10.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	5/4/2005	10.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**33.9**
	9/7/2005	11.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	9.16
	12/14/2005	11.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	6.56
	3/22/2006	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.28	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	10.25	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	10.42	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	10.66	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	10.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	10.25	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2007	10.83	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
MW-1N	4/16/2004	11.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	21.2
	7/14/2004	11.32	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	1	ND				9	**31.6**
	10/14/2004	10.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.64	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				4	ND
	5/4/2005	11.37	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				1	6.12
	9/8/2005	11.40	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				3	**291.0**
	12/15/2005	11.35	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	3.95
	3/23/2006	11.68	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	6/15/2006	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	9/27/2006	11.13	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	12/19/2006	11.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	3/28/2007	11.90	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	6/27/2007	11.33	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	15.2
	10/2/2007	11.16	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**32**
	12/20/2007	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	24.9

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			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-2N	4/15/2004	12.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	18.3
	7/14/2004	11.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/14/2004	11.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**27.1**
	5/4/2005	11.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	15.7
	9/7/2005	11.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	3.79
	12/15/2005	11.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	3/23/2006	11.98	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	14.7
	6/14/2006	11.67	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	12
	9/27/2006	11.36	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	20.7
	12/19/2006	11.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	13.3
	3/28/2007	12.24	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**76.5**
	6/27/2007	11.65	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**29**
	10/3/2007	11.44	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**36**
	12/20/2007	11.97	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**47.8**
MW-3N	4/15/2004	11.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**26.1**
	7/15/2004	11.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**121**
	10/13/2004	10.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**206**
	5/4/2005	11.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**49.3**
	9/8/2005	11.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**157.0**
	12/15/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**556**
	3/23/2006	11.72	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**1330**
	6/14/2006	11.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**73**
	9/28/2006	11.16	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**45**
	12/19/2006	11.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**435**
	3/28/2007	11.95	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**324**
	6/27/2007	11.37	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**544**
	10/3/2007	11.10	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**180**
	12/20/2007	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**612**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-4N	2/3/2005	11.31	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	4/16/2004	10.84	ND	5.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				5.42	**96.2**
	7/15/2004	10.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	10/13/2004	10.96	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	3	1				12	**623**
	5/4/2005	11.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**135**
	9/8/2005	11.91	4	**62**	ND	ND	ND	ND	ND	ND	ND	5	19	ND	22	4				**116**	**33.1**
	12/15/2005	11.25	2J	**35**	ND	**1J**	ND	ND	ND	1J	ND	4J	8	ND	9	6				**58**	**149**
	3/23/2006	11.03	1J	**36**	1J	ND	ND	ND	ND	ND	ND	1J	7	ND	8	1J				**51**	**373**
	6/14/2006	11.03	2	**29**	1	ND	ND	ND	ND	ND	ND	2	6	ND	4	3				47	**170**
	9/28/2006	10.70	4J	**55**	ND	**3J**	**3J**	ND	**3J**	**2J**	ND	9	14	ND	22	11				**111**	**290**
	12/20/2006	11.06	ND	19	2JB	ND	ND	ND	ND	ND	ND	ND	4J	ND	22	ND				41	**319**
	3/28/2007	11.48	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	4 J	ND	4 J	1 J				25	**788**
	6/27/2007	10.82	2J	**24**	ND	ND	ND	ND	ND	ND	ND	4J	ND	ND	10	4 J	**19**	**14**	**310**	**387**	**218**
	10/3/2007	10.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**540**
	12/20/2007	11.08	ND	**65 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**65 J**	ND	**850**	**980**	**395**
MW-5N	4/16/2004	11.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**26.2**
	7/15/2004	10.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/14/2004	10.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	5/4/2005	10.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	9.12
	9/8/2005	10.75	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				2	4.12
	12/15/2005	11.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	3/23/2006	11.20	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	11.7
	6/14/2006	11.02	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	9/27/2006	10.64	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	12/19/2006	11.03	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	10.8
	3/28/3007	11.24	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	12.3
	6/26/2007	10.80	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**39.9**
	10/3/2007	10.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**30**
	12/19/2007	11.00	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	20.3

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-8N	4/15/2004	11.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	21.0
	7/15/2004	11.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**40.6**
	10/14/2004	10.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	19.2
	5/4/2005	11.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**63.4**
	9/8/2005	11.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**87.4**
	12/15/2005	11.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**126**
	3/23/2006	11.54	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**202**
	6/14/2006	11.33	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**240**
	9/28/2006	10.89	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**316**
	12/19/2006	11.38	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**198**
	3/28/2007	11.70	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**555**
	6/27/2007	11.14	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**280**
	10/3/2007	10.90	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**150**
	12/20/2007	11.08	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**65**
MW-9N	4/16/2004	11.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**26.9**
	7/15/2004	10.52	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				2	12.9
	10/14/2004	9.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	10.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**1260**
	5/4/2005	10.61	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				1	**66.4**
	9/7/2005	10.70	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				1	**48.1**
	12/15/2005	10.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**328**
	3/23/2006	10.78	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**313**
	6/15/2006	10.78	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	19
	9/28/2006	10.31	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**32.1**
	12/19/2006	10.74	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**77.5**
	3/28/2007	11.05	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**381**
	6/27/2007	10.57	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**398**
	10/3/2007	10.25	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**760**
	12/20/2007	10.79	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**287**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-10N	4/15/2004	11.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**59.4**
	7/14/2004	11.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**37.3**
	10/14/2004	11.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	15.6
	5/4/2005	11.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**164**
	9/8/2005	11.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**304**
	12/15/2005	11.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**128**
	3/23/2006	12.00	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**166**
	6/14/2006	11.88	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**130**
	9/28/2006	11.43	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**166**
	12/20/2006	11.82	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**264**
	3/28/2007	12.28	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**456**
	6/27/2007	11.64	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**1630**
	10/3/2007	11.35	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**190**
	12/19/2007	12.00	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**909**

Notes:
* - Indicates that glassware damage during transport to tl
+ - Indicates that VOCs glassware damaged during initia
** - Indicates Analysis Not Run due to free product in M\
1. NE = Not established
2. J = Indicates estimated concentration for parameter in
3. ND = Indicates parameter Not Detected at laboratory
4. B = Indicates parameter was also detected in Trip and
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York States GA S**

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S
SAMPLE DATE		12/19/2006	12/19/2006	12/19/2006	12/29/2006	12/19/2006	12/19/2006
LABORATORY ID#		0612-00283-007	0612-00283-013	0612-00283-009	0701-00005-001	0612-00283-012	0612-00283-008
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND
Acetone	*50*	6J	ND	5J	**64J**	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	**11**	ND	ND	**38J**	ND	ND
Toluene	*5*	1J	ND	ND	**34J**	ND	ND
Ethylbenzene	*5*	**32**	ND	ND	**77**	ND	ND
Total Xylenes	*5*	2J	ND	ND	**1,500**	ND	ND
Isopropylbenzene	*5*	**5**	ND	ND	**10J**	ND	ND
n-Propylbenzene	*5*	**7**	ND	ND	**21J**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**340**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	**17J**	ND	ND
1,2,4-Trimethylbenzene	*5*	**38**	ND	ND	**980**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	5	ND	ND	**170**	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**55**	**24**	**17**	**130**	ND	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Dissolved))	*25*	ANR	ANR	ANR	ND	ANR	ANR
Lead (Total)	*25*	ANR	ANR	ANR	**31.2**	ANR	ANR

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-20S	MW-1N	MW-2N	MW-3N	MW-4N	MW-5N
SAMPLE DATE		12/19/2006	12/19/2006	12/19/2006	12/19/2006	12/20/2006	12/19/2006
LABORATORY ID#		0612-00283-002	0612-00283-003	0612-00283-005	0612-00283-017	0612-00283-023	0612-00283-019
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	**120JB**	ND
Acetone	*50*	ND	12J	ND	ND	**220JB**	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	**1J**	**170**	**2J**	ND	**1,100**	ND
Toluene	*5*	ND	**19**	1J	ND	**95J**	ND
Ethylbenzene	*5*	ND	**57**	4J	ND	**410**	ND
Total Xylenes	*5*	ND	**251**	3J	ND	**1,570**	ND
Isopropylbenzene	*5*	ND	**93**	7	ND	**60J**	ND
n-Propylbenzene	*5*	ND	**68**	3J	ND	**57J**	ND
1,3,5-Trimethylbenzene	*5*	ND	**31**	4J	ND	**140**	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	3J	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	**140**	3J	ND	**510**	ND
sec-Butyl-benzene	*5*	ND	**5**	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	2J	**11**	ND	ND	**320**	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	2J	ND	1J	**20**	**560**	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	**16B**	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	19	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	2JB	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	1J	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	4J	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	22	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ND	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	9J	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	N D	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	5J	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	**48**	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ND	ANR
Metals (ppb)							
Lead (Dissolved))	*25*	ANR	ANR	ND	ND	ANR	ANR
Lead (Total)	*25*	ANR	ND	13.3	**435**	**319**	10.8

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		12/19/2006	12/19/2006	12/19/2006	12/20/2006	12/19/2006	12/22/2006
LABORATORY ID#		0612-00283-015	0612-00283-021	0612-00283-025	0612-00283-010	0612-00283-014	0612-00283-001
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	98B	ND	ND	ND	ND
Acetone	*50*	16J	**370B**	11JB	9J	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	19B
Benzene	*0.7*	ND	ND	ND	**160**	ND	ND
Toluene	*5*	ND	ND	2J	**18**	ND	ND
Ethylbenzene	*5*	ND	ND	ND	**56**	ND	ND
Total Xylenes	*5*	ND	ND	ND	**238**	ND	ND
Isopropylbenzene	*5*	ND	**78**	ND	**89**	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	**65**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**29**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	1J	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	**130**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	4J	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	3J	ND	9	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	3J	7	ND	1J	ND	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	70B	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	2JB	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,l)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Dissolved))	*25*	ANR	ND	ANR	ANR	ANR	ANR
Lead (Total)	*25*	**198**	**77.5**	**264**	ND	ANR	ANR

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC*	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	M-11S	MW-11S	MW-11S
SAMPLE DATE	*Groundwater*	4/14/2004	7/13/2004	10/14/2004	2/2/2005	5/4/2005	12/14/2005	3/22/2006	6/13/2006	9/27/2006
Number or Days	*Standards/Criteria*									
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	8J	17	7JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB	ND	ND
Benzene	*0.7*	**9.55**	**48**	**27.6**	**2**	**160**	**21**	**18**	**17**	**38**
Toluene	*5*	ND	**12**	ND	ND	97	ND	1J	1	1J
Ethylbenzene	*5*	**13.1**	**290**	**99.2**	4	**440**	ND	ND	**45**	**110**
Total Xylenes	*5*	**43.2**	**322.0**	**72.74**	**14**	**1,040**	**19**	**52**	**24**	**12J**
Isopropylbenzene	*5*	ND	**21**	**9.93**	ND	**23**	ND	7	7	**13**
n-Propylbenzene	*5*	ND	**33**	**15.3**	ND	**26**	ND	9	8	**18**
1,3,5-Trimethylbenzene	*5*	**6.63**	**35**	**7.98**	3	ND	ND	8	4	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**106**	**600**	**191**	**29**	**510**	**130**	**83**	**84**	**170**
sec-Butyl-benzene	*5*	ND	2	ND	ND	ND	ND	ND	ND	1J
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	**120**	**56.3**	ND	**83**	**13B**	**13B**	**10**	**17**
MTBE	*10*	**260**	**860**	**484**	**86**	**890**	**210**	**230**	**210**	**280**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	2	3	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	2	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	5.5	**68**	**40.7**	2	**48**	**6**	ANR	ANR	ANR
Metals (ppb)										
Lead (Total)	*25*	ND	ND	ANR	6.60	13.5	13.8	ANR	ANR	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S
SAMPLE DATE		12/19/2006	4/14/2004	7/14/2004	10/14/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006
Number or Days										
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	6J	ND	ND	ND	ND	ND	ND	ND	7J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	ND	3JB
Benzene	*0.7*	**11**	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	*5*	1J	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	**32**	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	2J	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	**5**	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	**7**	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**38**	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	5	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	**55**	**69.2**	**28**	**30**	**23**	**59**	**43**	6	**22**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ND	ND	ND	ND	ND	ND	1J	ANR
Anthracene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)anthracene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Chloroform		ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
3&4-Methyl Phenol		ANR	ND	ND	ND	ND	ND	ND	ND	ANR
2-Methylnaphthalene		ANR	ND	ND	ND	ND	ND	ND	ND	ANR
2-Methyl Phenol		ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ANR	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)										
Lead (Total)	*25*	ANR	ND	ND	ANR	11.1	5.62	8.10	**36**	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-12S	MW-12S	MW-12S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S
SAMPLE DATE		6/13/2006	9/27/2006	12/19/2006	4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	20	5JB	ND	ND	ND	ND	ND	ND	ND	7JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	2	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ND	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	1	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	**30**	**28**	**24**	**52.5**	**37**	**32.2**	**11**	**20**	**92**	**41**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Anthracene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	*20*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Chloroform		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Chrysene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Flouranthene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Flourene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Pyrene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
3&4-Methyl Phenol		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
2-Methyl Phenol		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Phenol	*1*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Napthalene	*10*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Metals (ppb)											
Lead (Total)	*25*	ANR	ANR	ANR	ND	ND	ANR	10.4	12.4	ND	ND

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-13S	MW-13S	MW-13S	MW-13S	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S **
SAMPLE DATE		3/22/2006	6/15/2006	9/27/2006	12/19/2006	4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005*
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Acetone	*50*	10J	11	4JB	5J	ND	ND	ND	ND	ND	ANR
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Methylene Chloride	*5*	3JB	**11**	ND	ND	ND	ND	ND	ND	ND	ANR
Benzene	*0.7*	**2J**	ND	ND	ND	**445**	**120**	**264**	ND	**100**	ANR
Toluene	*5*	ND	ND	ND	ND	**1730**	**710**	**843**	**170**	**610**	ANR
Ethylbenzene	*5*	ND	ND	ND	ND	**1130**	**650**	**653**	**180**	**410**	ANR
Total Xylenes	*5*	ND	ND	ND	ND	**11370**	**7500**	**9450**	**4700**	**5200**	ANR
Isopropylbenzene	*5*	ND	ND	ND	ND	**90.6**	**50**	**61.8**	ND	ND	ANR
n-Propylbenzene	*5*	ND	ND	ND	ND	**185**	**90**	**106**	ND	**70**	ANR
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	**759**	**700**	**766**	**660**	**540**	ANR
Tert-Butyl-benzene	*5*	ANR	ANR	ND	ND	ANR	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	**2750**	**2600**	**2810**	**2300**	**1900**	ANR
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	8	**8.24**	ND	ND	ANR
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Naphthalene	*10*	ND	ND	1J	ND	**1150**	**1800**	**710**	**210**	**680**	ANR
MTBE	*10*	ND	**37**	**35**	**17**	**838**	**510**	**558**	ND	**450**	ANR
4-Methyl-2-Pentanone (MIBK)	*5*	ND	**4**	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Anthracene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	2	ND	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ND	ND	ND	2	ND	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	1	ND	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	2	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	1	ND	ANR
Chloroform		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	2	ND	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	5	ND	ANR
Flourene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	4	3	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	9	4	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	4	ND	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	**450**	**340**	**557**	**350**	**250**	ANR
Metals (ppb)											
Lead (Total)	*25*	ANR	ANR	ANR	ANR	18.9	ND	ANR	**55.2**	11.4	ANR

Notes:

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2. J = Indicates estimated concentration for parameter indicated.

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC*	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S	MW-18S	MW-18S	MW-18S	MW-18S *	MW-18S
SAMPLE DATE	*Groundwater*	12/14/2005	3/22/2006	6/13/2006	9/27/2006		4/14/2004	7/14/2004	10/13/2004	2/2/2005	5/4/2005
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	7	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	22JB	11	24	14JB	**64J**	ND	ND	ND	ND	ND
Carbon Disulfide	*50*	27	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	**11**	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	**78**	ND	**36**	**44**	**38J**	ND	ND	ND	ND	ND
Toluene	*5*	**320**	ND	**32**	**48**	**34J**	ND	ND	ND	ND	**6**
Ethylbenzene	*5*	**68**	ND	**190**	**66**	**77**	ND	ND	ND	ND	4
Total Xylenes	*5*	**3100**	ND	**1,760**	**1,490**	**1,500**	ND	ND	ND	ND	**54**
Isopropylbenzene	*5*	**12**	ND	**43**	**10**	**10J**	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	6	ND	**95**	**16**	**21J**	ND	ND	ND	ND	1
1,3,5-Trimethylbenzene	*5*	**470**	ND	**360**	**370**	**340**	ND	ND	ND	ND	**10**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ND	ND	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	**9**	4J	**17J**	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**540**	ND	**1,400**	**830**	**980**	ND	ND	ND	ND	**36**
sec-Butyl-benzene	*5*	ND	ND	ND	2J	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Naphthalene	*10*	**580B**	ND	**180**	**170**	**170**	ND	ND	ND	ND	**16**
MTBE	*10*	**450**	**37**	**180**	**160**	**130**	ND	ND	ND	ND	4
4-Methyl-2-Pentanone (MIBK)	*5*	ND	**4**	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Anthracene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Acenaphthene	*20*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Acenaphthylene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Benzo(a)anthracene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Benzo(b,k)flouranthene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Benzo(g,h,I)perylene	*5*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Benzo(a)pyrene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Chloroform		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Chrysene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Dibenzo(a,h)anthracene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Flouranthene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Flourene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Phenanthrene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Pyrene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
3&4-Methyl Phenol		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
2-Methylnaphthalene		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
2-Methyl Phenol		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Phenol	*1*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Napthalene	*10*	**300**	ANR	ANR	ANR	ANR	ND	ND	ND	ANR	ND
Metals (ppb)											
Lead (Total)	*25*	4.25	23.5	14	11.7	**31.2**	ND	ND	ANR	3.5	ND

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC*	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-19S	MW-19S	MW-19S	MW-19S
SAMPLE DATE	*Groundwater*	9/7/2005	12/14/2005	3/22/2006	6/13/2006	9/27/2006	12/19/2-	4/14/2004	7/13/2004	10/13/2004	2/2/2005
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	8	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	8	ND	ND	ND	ND	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	2JB	ND	2	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	ND	3J	ND	ND	ND	ND	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	**8J**	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	1J	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ND	ND	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	**6**	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	2JB	ND	1.3	ND	ND	ND	ND	ND	ND
MTBE	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Anthracene	*50*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Acenaphthene	*20*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Acenaphthylene	*50*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Benzo(a)anthracene	*0.002*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Benzo(b,k)flouranthene	*0.002*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Chloroform		ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Chrysene	*0.002*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Dibenzo(a,h)anthracene	*50*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Flouranthene	*50*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Flourene	*50*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Phenanthrene	*50*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Pyrene	*50*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
3&4-Methyl Phenol		ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
2-Methyl Phenol		ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Phenol	*1*	ND	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Napthalene	*10*	ND	1J	ANR	ANR	ANR	ANR	ND	ND	ND	ND
Metals (ppb)											
Lead (Total)	*25*	ND	ND	ANR	ANR	ANR	ANR	**142**	ANR	ANR	ND

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-20S	MW-20S	MW-20S
SAMPLE DATE		5/4/2005	9/23/2005	12/14/2005	3/22/2006	6/13/2006	9/27/2006	12/19/2006	4/15/2004	7/14/2004	10/13/2004
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	24	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	8JB	8J	**140**	7JB	ND	ND	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	2JB	ND	2	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	ND	ND	3JB	**3**	ND	ND	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ND	ND	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	3	ND	ND	**12.6**	ND	ND
MTBE	*10*	ND	ND	ND	ND	ND	ND	ND	ND	5	**11.1**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ANR	2J	ANR	ANR	ANR	ANR	ND	ND	ND
Anthracene	*50*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Acenaphthene	*20*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Acenaphthylene	*50*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Benzo(a)anthracene	*0.002*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Benzo(b,k)flouranthene	*0.002*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Benzo(a)pyrene	*0.002*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Chloroform		ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Chrysene	*0.002*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Dibenzo(a,h)anthracene	*50*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Flouranthene	*50*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Flourene	*50*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Phenanthrene	*50*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Pyrene	*50*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
3&4-Methyl Phenol		ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
2-Methylnaphthalene		ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
2-Methyl Phenol		ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Phenol	*1*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Napthalene	*10*	ND	ANR	ND	ANR	ANR	ANR	ANR	ND	ND	ND
Metals (ppb)											
Lead (Total)	*25*	4.05	8.41	22.4	ANR	ANR	ANR	ANR	10.1	16.6	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-1N	MW-1N
SAMPLE DATE		2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006	6/13/2006	9/27/2006	12/19/2006	4/16/2004	7/14/2004
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	7	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	7JB	10J	15	ND	ND	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	3JB	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	ND	ND	ND	**9**	ND	ND	**1J**	**150**	**90**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**44.2**	**96**
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**149**	**100**
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**160.5**	**400**
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**63.4**	**31**
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**51.5**	**19**
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**12.0**	**23.0**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ND	ND	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**293**	**220**
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	1	ND	2J	**26.6**	**18**
MTBE	*10*	**6**	**5**	2	6	5J	4	2J	2J	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Anthracene	*50*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Acenaphthene	*20*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	6
Acenaphthylene	*50*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Chloroform		ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Chrysene	*0.002*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Flouranthene	*50*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Flourene	*50*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	2
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Phenanthrene	*50*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	1
Pyrene	*50*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
3&4-Methyl Phenol		ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
2-Methyl Phenol		ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Phenol	*1*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND	ND
Napthalene	*10*	ND	ND	ND	ND	ANR	ANR	ANR	ANR	5.68	**21**
Metals (ppb)											
Lead (Total)	*25*	ND	**33.9**	9.16	6.56	ANR	ANR	ANR	ANR	21.2	**31.6**

Notes:

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** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-2N
SAMPLE DATE		10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/15/2006	9/27/2006	12/19/2006	4/15/2004
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	23JB	13J	35	15JB	12J	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	3J	ND	ND	ND	ND	ND
Benzene	*0.7*	**296**	**75**	**36**	**84**	**150**	**94**	**98**	**200**	**170**	ND
Toluene	*5*	**905**	**8.0**	**6**	**8**	**6**	**3J**	**5**	**55**	**19**	ND
Ethylbenzene	*5*	**446**	**79**	**48**	**61**	**110**	**46**	**21**	**262**	**57**	ND
Total Xylenes	*5*	**2087**	**230**	**32**	**23**	**71**	**6**	**7**	**82**	**251**	ND
Isopropylbenzene	*5*	**68.2**	**20**	**9**	**13**	**42**	**58**	**50**	**61**	**93**	ND
n-Propylbenzene	*5*	**53.4**	**14**	**7**	**8**	**24**	**40**	**32**	**32**	**68**	ND
1,3,5-Trimethylbenzene	*5*	**89.7**	**51**	**5.0**	ND	1	ND	ND	**12**	**31**	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ND	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	1J	3J	ND
1,2,4-Trimethylbenzene	*5*	**266**	**280**	**38**	**54**	**82**	**28**	**34**	**95**	**140**	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	3J	3	ND	**5**	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**9.43**	**55**	5	**10**	2JB	ND	3	4J	**11**	ND
MTBE	*10*	ND	ND	ND	4	8	6	3	1J	ND	5.10
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Anthracene	*50*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Acenaphthene	*20*	ND	4	1	3	2J	ANR	ANR	ANR	ANR	ND
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Chloroform		ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Chrysene	*0.002*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Flouranthene	*50*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Flourene	*50*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Phenanthrene	*50*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Pyrene	*50*	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
2-Methylnaphthalene		ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
2-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR	ND
Phenol	*1*	ND	ND	ND	ND	**3J**	ANR	ANR	ANR	ANR	ND
Napthalene	*10*	**10**	15	**2**	ND	ND	ANR	ANR	ANR	ANR	ND
Metals (ppb)											
Lead (Total)	*25*	ANR	ND	6.12	**291.0**	3.95	ND	ND	ND	ND	18.3

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N
SAMPLE DATE		7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/7/2005	12/15/2005	3/23/2006	6/14/2006	9/27/2006	12/19/2006
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	10JB	ND	11	11JB	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	**2J**	ND	ND	ND	ND
Benzene	*0.7*	ND	**23.1**	ND	**2**	ND	**2J**	**2J**	**3**	**7**	2J
Toluene	*5*	3	ND	ND	ND	ND	ND	ND	ND	2J	1J
Ethylbenzene	*5*	ND	**16**	ND	1	ND	ND	ND	ND	4J	4J
Total Xylenes	*5*	3	**34**	ND	ND	ND	ND	ND	ND	**7J**	3J
Isopropylbenzene	*5*	4	**22.1**	ND	4	ND	1J	ND	3	**14**	7
n-Propylbenzene	*5*	1	**13.8**	ND	2	ND	ND	ND	1.0	**8**	3J
1,3,5-Trimethylbenzene	*5*	3	**51**	ND	ND	ND	ND	ND	ND	**12**	4J
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	4	**67.4**	ND	2	ND	ND	ND	ND	**13**	3J
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	1.0	1J	ND
MTBE	*10*	ND	ND	ND	4.00	4	5J	3J	1	1J	1J
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	ND	ANR	**27.1**	15.7	3.79	ND	14.7	12	20.7	13.3

Notes:

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3. ND = Indicates parameter Not Detected at laboratory method detection limit.

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N
SAMPLE DATE		4/15/2004	7/15/2004	10/13/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006	9/28/2006
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	6	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	23JB	9J	24	6JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	ND	2	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	**2**	ND	ND	ND	**2J**
Toluene	*5*	ND	ND	ND	ND	ND	1	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	ND	ND	**18.9**	**15**	**10**	**17**	**24**	**22**	9	**22**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	7	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR
Metals (ppb)											
Lead (Total)	*25*	**26.1**	**121**	ANR	**206**	**49.3**	**157.0**	**556**	**1330**	**73**	**45**

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

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1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-3N	MW-4N	MW4-N	MW4-N	MW4-N	MW4-N	MW4-N	MW4-N	MW-4N	MW-4N
SAMPLE DATE		12/19/2006	2/3/2005	4/16/2004	7/15/2004	10/13/2004	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ANR	ND	ND	ND	ND	ND	11J	ND	ND
Acetone	*50*	ND	ANR	ND	ND	ND	ND	ND	ND	**51**	**57**
Carbon Disulfide	*50*	ND	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	ANR	**2180**	**2690**	**2000**	**1200**	**4400**	**930**	**3400**	**1,200**
Toluene	*5*	ND	ANR	**1580**	**4430**	**3900**	**1800**	**3300**	**630**	**1900**	**300**
Ethylbenzene	*5*	ND	ANR	**1560**	**1430**	**1900**	**1100**	**1000**	**550**	**940**	**400**
Total Xylenes	*5*	ND	ANR	**7700**	**8990**	**1400**	**6800**	**4700**	**3000**	**4400**	**1,730**
Isopropylbenzene	*5*	ND	ANR	**210**	**235**	**250**	**180**	**160**	**69**	**79**	**57**
n-Propylbenzene	*5*	ND	ANR	**165**	**199**	**210**	**180**	**150**	**64**	**70**	**49**
1,3,5-Trimethylbenzene	*5*	ND	ANR	**816**	**642**	**650**	**510**	**420**	**190**	**190**	**140**
Tert-Butyl-benzene	*5*	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	**9.41**	**10.9**	**13**	ND	ND	**12**	**5**	4
1,2,4-Trimethylbenzene	*5*	ND	ANR	**2560**	**1990**	**2000**	**2000**	**1700**	**650**	**1100**	ND
sec-Butyl-benzene	*5*	ND	ANR	**13.0**	**14.7**	**17.0**	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ANR	**5140**	**1400**	**980**	**2200**	ND	**1000B**	**3300**	**210**
MTBE	*10*	**20**	ANR	**2230**	**1790**	**870**	**1700**	**2600**	**1200**	**3500**	**920**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ND	ND	ND	ND	ND	2J	3JB	1
Anthracene	*50*	ANR	ANR	ND	ND	ND	ND	4	2J	1J	2
Acenaphthene	*20*	ANR	ANR	5.42	ND	6	ND	**62**	**35**	**36**	**29**
Acenaphthylene	*50*	ANR	ANR	ND	ND	ND	ND	ND	ND	1J	1
Benzo(a)anthracene	*0.002*	ANR	ANR	ND	ND	ND	ND	ND	**1J**	ND	ND
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ANR	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ANR	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ANR	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	*0.002*	ANR	ANR	ND	ND	ND	ND	ND	1J	ND	ND
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ND	ND	ND	ND	ND	ND	ND	2
Flouranthene	*50*	ANR	ANR	ND	ND	ND	ND	5	4J	1J	2
Flourene	*50*	ANR	ANR	ND	ND	2	ND	19	8	7	6
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	*50*	ANR	ANR	ND	ND	3	ND	22	9	8	4
Pyrene	*50*	ANR	ANR	ND	ND	1	ND	4	6	1J	3
3&4-Methyl Phenol		ANR	ANR	ND	ND	ND	ND	ND	ND	ND	73
2-Methylnaphthalene		ANR	ANR	ND	ND	ND	ND	ND	ND	ND	12
2-Methyl Phenol		ANR	ANR	ND	ND	ND	ND	ND	ND	ND	8
Phenol	*1*	ANR	ANR	ND	ND	ND	ND	ND	**6**	**18**	ND
Napthalene	*10*	ANR	ANR	**440**	**895**	**480**	**ND**	**940**	**330**	**380**	**160**
Metals (ppb)											
Lead (Total)	*25*	**435**	ANR	**96.2**	ANR	**623**	**135**	**33.1**	**149**	**373**	**170**

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-4N	MW-4N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N
SAMPLE DATE		9/28/2006	12/20/2006	4/16/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	**120JB**	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	**51B**	**220JB**	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	ND	2JB	ND
Benzene	*0.7*	**1,300**	**1,100**	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	*5*	**270**	**95J**	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	**519**	**410**	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	**2,277**	**1,570**	ND	ND	ND	ND	ND	ND	1J	ND
Isopropylbenzene	*5*	**66**	**60J**	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	**57**	**57J**	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	**160**	**140**	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	4J	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	**600**	**510**	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	4J	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**430**	**320**	ND	ND	ND	ND	ND	2	3JB	ND
MTBE	*10*	**600**	**560**	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	4J	**16B**	ND	ND	ND	ND	ND	ND	ND	ANR
Anthracene	*50*	4J	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthene	*20*	**55**	19	ND	ND	ND	ND	ND	ND	ND	ANR
Acenaphthylene	*50*	ND	2JB	ND	ND	ND	ND	ND	2	ND	ANR
Benzo(a)anthracene	*0.002*	**3J**	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(b,k)flouranthene	*0.002*	**3J**	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Benzo(a)pyrene	*0.002*	**3J**	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Chrysene	*0.002*	**2J**	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Di-n-butylphthalate		ANR	2JB	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	1J	ND	ND	ND	ND	ND	ND	ND	ANR
Flouranthene	*50*	9	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Flourene	*50*	14	4J	ND	ND	ND	ND	ND	ND	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Phenanthrene	*50*	22	22	ND	ND	ND	ND	ND	ND	ND	ANR
Pyrene	*50*	11	ND	ND	ND	ND	ND	ND	ND	ND	ANR
3&4-Methyl Phenol		34	9J	ND	ND	ND	ND	ND	ND	ND	ANR
2-Methylnaphthalene		44	N D	ND	ND	ND	ND	ND	ND	ND	ANR
2-Methyl Phenol		14	5J	ND	ND	ND	ND	ND	ND	ND	ANR
Phenol	*1*	**45**	**48**	ND	ND	ND	ND	ND	ND	ND	ANR
Napthalene	*10*	**360**	ND	ND	ND	ND	ND	ND	ND	ND	ANR
Metals (ppb)											
Lead (Total)	*25*	**290**	**319**	**26.2**	ND	ANR	ND	9.12	4.12	ND	11.7

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-5N	MW-5N	MW-5N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N
SAMPLE DATE		6/14/2006	9/27/2006	12/19/2006	4/15/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	9	5JB	ND	ND	ND	ND	ND	ND	ND	16JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	**5**	1J	ND	ND	ND	ND	ND	ND	ND	2J
Benzene	*0.7*	**2**	ND	ND	**7.93**	**3**	**12.4**	ND	ND	**2**	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ND	ND	ANR	ANR	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	1	4J	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	ND	ND	ND	**46.4**	6	**51.6**	ND	**3**	8	3J
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	2J
Anthracene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	*20*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Chloroform		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Chrysene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Flouranthene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Flourene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Pyrene	*50*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
3&4-Methyl Phenol		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
2-Methyl Phenol		ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Phenol	*1*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Napthalene	*10*	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND	ND
Metals (ppb)											
Lead (Total)	*25*	ND	ND	10.8	21.0	**40.6**	ANR	19.2	**63.4**	**87.4**	**126**

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
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Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-8N	MW-8N	MW-8N	MW-8N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N
SAMPLE DATE		3/23/2006	6/14/2006	9/28/2006	12/19/2006	4/16/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/7/2005
Number or Days											
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	12J	31	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	44	40	31JB	16J	ND	ND	ND	ND	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	1J	4	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	**3**	**2J**	ND	ND	ND	ND	ND	3	ND
Toluene	*5*	ND	ND	1J	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
Total Xylenes	*5*	ND	ND	ND	ND	**16.7**	4.0	ND	ND	2.0	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	2	ND	ND	2	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	1	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ND	ND	ANR	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	**9.78**	2	ND	ND	1	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	**37.8**	**12**	ND	ND	**21**	2
MTBE	*10*	4J	ND	5	3J	**37.7**	**17**	**21.6**	ND	**10**	**10**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	9	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Anthracene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ND	2	ND	ND	1	1
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Chloroform		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Flouranthene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Flourene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Pyrene	*50*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
2-Methyl Phenol		ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Phenol	*1*	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND	ND
Napthalene	*10*	ANR	ANR	ANR	ANR	**17.5**	9	ND	ND	2	ND
Metals (ppb)											
Lead (Total)	*25*	**202**	**240**	**316**	**198**	**26.9**	12.9	ANR	**1260**	**66.4**	**48.1**

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC*	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N
SAMPLE DATE	*Groundwater*	12/15/2005	3/23/2006	6/15/2006	9/28/2006	12/19/2006	4/15/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005
Number or Days	*Standards/Criteria*										
Volatile Organic Compounds (ppb)											
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	98B	ND	ND	ND	ND	ND
Acetone	*50*	19JB	45	12	6JB	**370B**	ND	ND	ND	ND	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	3JB	4JB	3	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	**2J**	**2J**	**1**	**2J**	ND	ND	ND	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	**21**	ND	**21**
Isopropylbenzene	*5*	2J	3J	3	ND	**78**	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ND	ND	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	2JB	ND	5	2J	3J	ND	ND	ND	ND	ND
MTBE	*10*	**11**	5J	8	6	7	7.43	4	9.25	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)											
bis(2-Ethylhexyl)phthalate	*5*	1J	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Anthracene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Acenaphthene	*20*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Acenaphthylene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Benzo(a)anthracene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Benzo(b,k)flouranthene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Chloroform		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Chrysene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Flouranthene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Flourene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Phenanthrene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Pyrene	*50*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
3&4-Methyl Phenol		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
2-Methyl Phenol		ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Phenol	*1*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Napthalene	*10*	ND	ANR	ANR	ANR	ANR	ND	ND	ND	ND	ND
Metals (ppb)											
Lead (Total)	*25*	**328**	**313**	19	**32.1**	**77.5**	**59.4**	**37.3**	ANR	15.6	**164**

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4
Historic Groundwater Sampling Analytical Data
Con Edison 3rd Avenue Service Center and Employee Parking Lot
Brooklyn, New York

December 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N
SAMPLE DATE		9/8/2005	12/15/2005	3/23/2006	6/14/2006	9/28/2006	12/20/2006
Number or Days							
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	2J	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	20J	10	10	ND
Acetone	*50*	ND	**56B**	**76**	6	12JB	11JB
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	3JB	ND	ND	ND	ND
Benzene	*0.7*	ND	ND	ND	2	ND	ND
Toluene	*5*	**8**	ND	ND	ND	**32**	2J
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ND	ANR	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	1J	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	2	2JB	ND	ND	ND	ND
MTBE	*10*	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	17	ND	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ND	2J	ANR	ANR	ANR	ANR
Anthracene	*50*	ND	ND	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ND	ND	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ND	ND	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ANR	ANR	ANR	ANR
Chloroform		ND	ND	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ND	ND	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ND	ND	ANR	ANR	ANR	ANR
Flouranthene	*50*	ND	ND	ANR	ANR	ANR	ANR
Flourene	*50*	ND	ND	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ND	ND	ANR	ANR	ANR	ANR
Pyrene	*50*	ND	ND	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ND	ND	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ND	ND	ANR	ANR	ANR	ANR
2-Methyl Phenol		ND	ND	ANR	ANR	ANR	ANR
Phenol	*1*	ND	ND	ANR	ANR	ANR	ANR
Napthalene	*10*	ND	ND	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Total)	*25*	**304**	**128**	**166**	**130**	**166**	**264**

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 3

Groundwater Sampling Analytical Results

Con Edison 3rd Avenue Service Center and Employee PArking Lot
Brooklyn, New York

June 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S
SAMPLE DATE		6/13/2006	6/13/2006	6/15/2006	6/13/2006	6/13/2006	6/13/2006	6/13/2006
Number or Days								
LABORATORY ID#		0606-00263-001	0606-00263-002	0606-00263-014	0606-00263-003	0606-00263-004	0606-00263-005	0606-00263-006
Volatile Organic Compounds (ppb)								
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	3	ND	7	8	24	7
Acetone	*50*	17	20	11	24	8	**140**	15
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	2	**11**	ND	2	2	ND
Benzene	*0.7*	**17**	ND	ND	**36**	ND	**3**	ND
Toluene	*5*	1	ND	ND	**32**	ND	1	ND
Ethylbenzene	*5*	**45**	ND	ND	**190**	ND	1	ND
Total Xylenes	*5*	**24**	ND	ND	**1,760**	ND	1	ND
Isopropylbenzene	*5*	**7**	ND	ND	**43**	ND	ND	ND
n-Propylbenzene	*5*	**8**	ND	ND	**95**	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	4	ND	ND	**360**	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	**84**	ND	ND	**1,400**	ND	1	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**10**	3	ND	**180**	1.3	3	1
MTBE	*10*	**210**	**30**	**37**	**180**	ND	ND	4
4-Isopropyltoluene	*5*	ND	ND	ND	**9**	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)								
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chloroform	*7*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)								
Lead	*25*	ANR	ANR	ANR	14	ANR	ANR	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-14S

MW-5 not sampled due to product in well

Table 3

Groundwater Sampling Analytical Results

Con Edison 3rd Avenue Service Center and Employee PArking Lot
Brooklyn, New York

June 2006

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-1N	MW-2N	MW-3N	MW-4N	MW-5N	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		6/15/2006	6/14/2006	6/14/2006	6/14/2006	6/14/2006	6/14/2006	6/15/2006	6/14/2006	6/13/2006	6/15/2006	6/13/2006
Number or Days												
LABORATORY ID#		0606-00263-016	0606-00263-008	0606-00263-009	0606-00263-010	0606-00263-011	0606-00263-012	0606-00263-015	0606-00263-013	0606-00263-007	0606-00263-021	0606-00263-022
Volatile Organic Compounds (ppb)												
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	6	ND	ND	31	ND	10	ND	ND	ND
Acetone	*50*	35	11	24	**57**	9	40	12	6	ND	9	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	2	ND	**5**	4	3	ND	**83**	3	4
Benzene	*0.7*	**98**	**3**	ND	**1,200**	**2**	**3**	**1**	**2**	**48**	ND	ND
Toluene	*5*	**5**	ND	ND	**300**	ND	ND	ND	ND	**35**	ND	ND
Ethylbenzene	*5*	**21**	ND	ND	**400**	ND	ND	ND	ND	**190**	ND	ND
Total Xylenes	*5*	**7**	ND	ND	**1,730**	ND	ND	ND	ND	**1,800**	ND	ND
Isopropylbenzene	*5*	**50**	3	ND	**57**	ND	ND	3	ND	**41**	ND	ND
n-Propylbenzene	*5*	**32**	1.0	ND	**49**	ND	ND	ND	ND	**87**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**140**	ND	ND	ND	ND	**440**	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	**34**	ND	ND	ND	ND	ND	ND	ND	**1,700**	ND	ND
sec-Butyl-benzene	*5*	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	3	1.0	ND	**210**	1	ND	5	ND	**220**	ND	ND
MTBE	*10*	3	1	9	**920**	ND	ND	8	ND	**200**	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)												
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	1	ANR	ANR	ANR	ANR	ANR	ND	ND
Anthracene	*50*	ANR	ANR	ANR	2	ANR	ANR	ANR	ANR	ANR	ND	ND
Acenaphthene	*20*	ANR	ANR	ANR	**29**	ANR	ANR	ANR	ANR	ANR	ND	ND
Acenaphthylene	*50*	ANR	ANR	ANR	1	ANR	ANR	ANR	ANR	ANR	ND	ND
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	ND
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	ND
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	ND
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	ND
Chloroform	*7*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	2
Chrysene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	ND
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	ND
Dibenzofuran		ANR	ANR	ANR	2	ANR	ANR	ANR	ANR	ANR	ND	ND
Fluoranthene	*50*	ANR	ANR	ANR	2	ANR	ANR	ANR	ANR	ANR	ND	ND
Fluorene	*50*	ANR	ANR	ANR	6	ANR	ANR	ANR	ANR	ANR	ND	ND
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	ND
Phenanthrene	*50*	ANR	ANR	ANR	4	ANR	ANR	ANR	ANR	ANR	ND	ND
Pyrene	*50*	ANR	ANR	ANR	3	ANR	ANR	ANR	ANR	ANR	ND	ND
3&4-Methyl Phenol		ANR	ANR	ANR	73	ANR	ANR	ANR	ANR	ANR	ND	ND
2-Methylnaphthalene		ANR	ANR	ANR	12	ANR	ANR	ANR	ANR	ANR	ND	ND
2-Methyl Phenol		ANR	ANR	ANR	8	ANR	ANR	ANR	ANR	ANR	ND	ND
Phenol	*1*	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	ND
Napthalene	*10*	ANR	ANR	ANR	**160**	ANR	ANR	ANR	ANR	ANR	ND	ND
Metals (ppb)												
Lead	*25*	ND	12	**73**	**170**	ND	**240**	19	**130**	14	ANR	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later da

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-14S

MW-5 not sampled due to product in well

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	M-11S	MW-11S
SAMPLE DATE		4/14/2004	7/13/2004	10/14/2004	2/2/2005	5/4/2005	12/14/2005	3/22/2006	6/13/2006
Number or Days									
Volatile Organic Compounds (ppb)									
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	8J	17
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB	ND
Benzene	*0.7*	**9.55**	**48**	**27.6**	**2**	**160**	**21**	**18**	**17**
Toluene	*5*	ND	**12**	ND	ND	97	ND	1J	1
Ethylbenzene	*5*	**13.1**	**290**	**99.2**	4	**440**	ND	ND	**45**
Total Xylenes	*5*	**43.2**	**322.0**	**72.74**	**14**	**1,040**	**19**	**52**	**24**
Isopropylbenzene	*5*	ND	**21**	**9.93**	ND	**23**	ND	7	7
n-Propylbenzene	*5*	ND	**33**	**15.3**	ND	**26**	ND	9	8
1,3,5-Trimethylbenzene	*5*	**6.63**	**35**	**7.98**	3	ND	ND	8	4
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	**106**	**600**	**191**	**29**	**510**	**130**	**83**	**84**
sec-Butyl-benzene	*5*	ND	2	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	**120**	**56.3**	ND	**83**	**13B**	**13B**	**10**
MTBE	*10*	**260**	**860**	**484**	**86**	**890**	**210**	**230**	**210**
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)									
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	2	3	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	2	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	5.5	**68**	**40.7**	2	**48**	**6**	ANR	ANR
Metals (ppb)									
Lead	*25*	ND	ND	ANR	6.60	13.5	13.8	ANR	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S
SAMPLE DATE	*Groundwater*	4/14/2004	7/14/2004	10/14/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006	6/13/2006
Number or Days	*Standards/Criteria*									
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	3
Acetone	*50*	ND	ND	ND	ND	ND	ND	ND	7J	20
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	3JB	2
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	3
MTBE	*10*	**69.2**	**28**	**30**	**23**	**59**	**43**	6	**22**	**30**
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	1J	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	ND	ND	ANR	11.1	5.62	8.10	**36**	ANR	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later d

** - Indicates Analysis Not Run due to free product in MW

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S
SAMPLE DATE		4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006	6/15/2006
Number or Days										
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	7JB	10J	11
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	3JB	**11**
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	**2J**	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	2	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	**52.5**	**37**	**32.2**	**11**	**20**	**92**	**41**	ND	**37**
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**4**
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	ND	ND	ANR	10.4	12.4	ND	ND	ANR	ANR

Notes:

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+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later d

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S **	MW-14S	MW-14S	MW-14S
SAMPLE DATE	*Groundwater*	4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005*	12/14/2005	3/22/2006	6/13/2006
Number or Days	*Standards/Criteria*									
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ANR	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ANR	ND	ND	7
Acetone	*50*	ND	ND	ND	ND	ND	ANR	22JB	11	24
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ANR	27	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ANR	ND	**11**	ND
Benzene	*0.7*	**445**	**120**	**264**	ND	**100**	ANR	**78**	ND	**36**
Toluene	*5*	**1730**	**710**	**843**	**170**	**610**	ANR	**320**	ND	**32**
Ethylbenzene	*5*	**1130**	**650**	**653**	**180**	**410**	ANR	**68**	ND	**190**
Total Xylenes	*5*	**11370**	**7500**	**9450**	**4700**	**5200**	ANR	**3100**	ND	**1,760**
Isopropylbenzene	*5*	**90.6**	**50**	**61.8**	ND	ND	ANR	**12**	ND	**43**
n-Propylbenzene	*5*	**185**	**90**	**106**	ND	**70**	ANR	6	ND	**95**
1,3,5-Trimethylbenzene	*5*	**759**	**700**	**766**	**660**	**540**	ANR	**470**	ND	**360**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	**2750**	**2600**	**2810**	**2300**	**1900**	ANR	**540**	ND	**1,400**
sec-Butyl-benzene	*5*	ND	8	**8.24**	ND	ND	ANR	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ANR	ND	ND	ND
Naphthalene	*10*	**1150**	**1800**	**710**	**210**	**680**	ANR	**580B**	ND	**180**
MTBE	*10*	**838**	**510**	**558**	ND	**450**	ANR	**450**	**37**	**180**
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	**9**
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	**4**	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Anthracene	*50*	ND	ND	ND	2	ND	ANR	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	2	ND	ANR	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	1	ND	ANR	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	2	ND	ANR	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	1	ND	ANR	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	2	ND	ANR	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	5	ND	ANR	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	4	3	ANR	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	9	4	ANR	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	4	ND	ANR	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Napthalene	*10*	**450**	**340**	**557**	**350**	**250**	ANR	**300**	ANR	ANR
Metals (ppb)										
Lead	*25*	18.9	ND	ANR	**55.2**	11.4	ANR	4.25	23.5	14

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

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1. NE = Not established

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3. ND = Indicates parameter Not Detected at laboratory method detection limit.

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-18S	MW-18S	MW-18S	MW-18S *	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S
SAMPLE DATE		4/14/2004	7/14/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006	6/13/2006
Number or Days										
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	8
Acetone	*50*	ND	ND	ND	ND	ND	ND	ND	ND	8
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2JB	ND	2
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	3J	ND
Toluene	*5*	ND	ND	ND	ND	**6**	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	4	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	**54**	ND	**8J**	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	**10**	ND	1J	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	**36**	ND	**6**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	2	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	**16**	ND	2JB	ND	1.3
MTBE	*10*	ND	ND	ND	ND	4	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Anthracene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ANR	ND	ND	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ANR	ND	ND	1J	ANR	ANR
Metals (ppb)										
Lead	*25*	ND	ND	ANR	3.5	ND	ND	ND	ANR	ANR

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later d

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S
SAMPLE DATE		4/14/2004	7/13/2004	10/13/2004	2/2/2005	5/4/2005	9/23/2005	12/14/2005	3/22/2006	6/13/2006
Number or Days										
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	24
Acetone	*50*	ND	ND	ND	ND	ND	ND	8JB	8J	**140**
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2JB	ND	2
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	3JB	**3**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	1
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	1
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	1
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	3
MTBE	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ANR	2J	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ANR	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	**142**	ANR	ANR	ND	4.05	8.41	22.4	ANR	ANR

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S	MW-20S
SAMPLE DATE	*Groundwater*	4/15/2004	7/14/2004	10/13/2004	2/2/2005	5/4/2005	9/7/2005	12/14/2005	3/22/2006	6/13/2006
Number or Days	*Standards/Criteria*									
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	7
Acetone	*50*	ND	ND	ND	ND	ND	ND	7JB	10J	15
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	3JB	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	**9**	ND
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**12.6**	ND	ND	ND	ND	ND	ND	ND	1
MTBE	*10*	ND	5	**11.1**	**6**	**5**	2	6	5J	4
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	10.1	16.6	ANR	ND	**33.9**	9.16	6.56	ANR	ANR

Notes:

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N	MW-1N
SAMPLE DATE	*Groundwater*	4/16/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/15/2006
Number or Days	*Standards/Criteria*									
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	23JB	13J	35
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3J	ND	ND
Benzene	*0.7*	**150**	**90**	**296**	**75**	**36**	**84**	**150**	**94**	**98**
Toluene	*5*	**44.2**	**96**	**905**	**8.0**	**6**	**8**	**6**	**3J**	**5**
Ethylbenzene	*5*	**149**	**100**	**446**	**79**	**48**	**61**	**110**	**46**	**21**
Total Xylenes	*5*	**160.5**	**400**	**2087**	**230**	**32**	**23**	**71**	**6**	**7**
Isopropylbenzene	*5*	**63.4**	**31**	**68.2**	**20**	**9**	**13**	**42**	**58**	**50**
n-Propylbenzene	*5*	**51.5**	**19**	**53.4**	**14**	**7**	**8**	**24**	**40**	**32**
1,3,5-Trimethylbenzene	*5*	**12.0**	**23.0**	**89.7**	**51**	**5.0**	ND	1	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	**293**	**220**	**266**	**280**	**38**	**54**	**82**	**28**	**34**
sec-Butyl-benzene	*5*	ND	2	ND	ND	ND	ND	ND	3J	3
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**26.6**	**18**	**9.43**	**55**	5	**10**	2JB	ND	3
MTBE	*10*	ND	ND	ND	ND	ND	4	8	6	3
4-Isopropyltoluene	*5*	ND	2	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	6	ND	4	1	3	2J	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	2	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	1	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	**3J**	ANR	ANR
Napthalene	*10*	5.68	**21**	**10**	15	**2**	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	21.2	**31.6**	ANR	ND	6.12	**291.0**	3.95	ND	ND

Notes:

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1. NE = Not established

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4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N	MW-2N
SAMPLE DATE		4/15/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/7/2005	12/15/2005	3/23/2006	6/14/2006
Number or Days										
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	10JB	ND	11
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	ND	ND
Benzene	*0.7*	ND	ND	**23.1**	ND	**2**	ND	**2J**	**2J**	**3**
Toluene	*5*	ND	3	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	**16**	ND	1	ND	ND	ND	ND
Total Xylenes	*5*	ND	3	**34**	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	4	**22.1**	ND	4	ND	1J	ND	3
n-Propylbenzene	*5*	ND	1	**13.8**	ND	2	ND	ND	ND	1.0
1,3,5-Trimethylbenzene	*5*	ND	3	**51**	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ND	4	**67.4**	ND	2	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	1.0
MTBE	*10*	5.10	ND	ND	ND	4.00	4	5J	3J	1
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	18.3	ND	ANR	**27.1**	15.7	3.79	ND	14.7	12

Notes:

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** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N	MW-3N
SAMPLE DATE	*Groundwater*	4/15/2004	7/15/2004	10/13/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006
Number or Days	*Standards/Criteria*									
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	6
Acetone	*50*	ND	ND	ND	ND	ND	ND	23JB	9J	24
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	ND	2
Benzene	*0.7*	ND	ND	ND	ND	ND	**2**	ND	ND	ND
Toluene	*5*	ND	ND	ND	ND	ND	1	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	ND	ND	**18.9**	**15**	**10**	**17**	**24**	**22**	9
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	7
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	**26.1**	**121**	ANR	**206**	**49.3**	**157.0**	**556**	**1330**	**73**

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-4N	MW4-N	MW4-N	MW4-N	MW4-N	MW4-N	MW4-N	MW-4N	MW-4N
SAMPLE DATE		2/3/2005	4/16/2004	7/15/2004	10/13/2004	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006
Number or Days										
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ANR	ND	ND	ND	ND	ND	11J	ND	ND
Acetone	*50*	ANR	ND	ND	ND	ND	ND	ND	**51**	**57**
Carbon Disulfide	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ANR	**2180**	**2690**	**2000**	**1200**	**4400**	**930**	**3400**	**1,200**
Toluene	*5*	ANR	**1580**	**4430**	**3900**	**1800**	**3300**	**630**	**1900**	**300**
Ethylbenzene	*5*	ANR	**1560**	**1430**	**1900**	**1100**	**1000**	**550**	**940**	**400**
Total Xylenes	*5*	ANR	**7700**	**8990**	**1400**	**6800**	**4700**	**3000**	**4400**	**1,730**
Isopropylbenzene	*5*	ANR	**210**	**235**	**250**	**180**	**160**	**69**	**79**	**57**
n-Propylbenzene	*5*	ANR	**165**	**199**	**210**	**180**	**150**	**64**	**70**	**49**
1,3,5-Trimethylbenzene	*5*	ANR	**816**	**642**	**650**	**510**	**420**	**190**	**190**	**140**
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ANR	**2560**	**1990**	**2000**	**2000**	**1700**	**650**	**1100**	ND
sec-Butyl-benzene	*5*	ANR	**13.0**	**14.7**	**17.0**	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ANR	**5140**	**1400**	**980**	**2200**	ND	**1000B**	**3300**	**210**
MTBE	*10*	ANR	**2230**	**1790**	**870**	**1700**	**2600**	**1200**	**3500**	**920**
4-Isopropyltoluene	*5*	ND	**9.41**	**10.9**	**13**	ND	ND	**12**	**5**	4
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ND	ND	ND	ND	ND	2J	3JB	1
Anthracene	*50*	ANR	ND	ND	ND	ND	4	2J	1J	2
Acenaphthene	*20*	ANR	5.42	ND	6	ND	**62**	**35**	**36**	**29**
Acenaphthylene	*50*	ANR	ND	ND	ND	ND	ND	ND	1J	1
Benzo(a)anthracene	*0.002*	ANR	ND	ND	ND	ND	ND	**1J**	ND	ND
Benzo(b,k)flouranthene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)perylene	*5*	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ANR	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	*0.002*	ANR	ND	ND	ND	ND	ND	1J	ND	ND
Dibenzo(a,h)anthracene	*50*	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ANR	ND	ND	ND	ND	ND	ND	ND	2
Flouranthene	*50*	ANR	ND	ND	ND	ND	5	4J	1J	2
Flourene	*50*	ANR	ND	ND	2	ND	19	8	7	6
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	*50*	ANR	ND	ND	3	ND	22	9	8	4
Pyrene	*50*	ANR	ND	ND	1	ND	4	6	1J	3
3&4-Methyl Phenol		ANR	ND	ND	ND	ND	ND	ND	ND	73
2-Methylnaphthalene		ANR	ND	ND	ND	ND	ND	ND	ND	12
2-Methyl Phenol		ANR	ND	ND	ND	ND	ND	ND	ND	8
Phenol	*1*	ANR	ND	ND	ND	ND	ND	**6**	**18**	ND
Napthalene	*10*	ANR	**440**	**895**	**480**	**ND**	**940**	**330**	**380**	**160**
Metals (ppb)										
Lead	*25*	ANR	**96.2**	ANR	**623**	**135**	**33.1**	**149**	**373**	**170**

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N	MW-5N
SAMPLE DATE		4/16/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006
Number or Days										
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	ND	ND	9
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2JB	ND	**5**
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND	**2**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	1J	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	2	3JB	ND	1
MTBE	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	2	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	**26.2**	ND	ANR	ND	9.12	4.12	ND	11.7	ND

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6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N	MW-8N
SAMPLE DATE		4/15/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006
Number or Days										
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	12J	31
Acetone	*50*	ND	ND	ND	ND	ND	ND	16JB	44	40
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	2J	1J	4
Benzene	*0.7*	**7.93**	**3**	**12.4**	ND	ND	**2**	ND	ND	**3**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	*10*	**46.4**	6	**51.6**	ND	**3**	8	3J	4J	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	9
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	21.0	**40.6**	ANR	19.2	**63.4**	**87.4**	**126**	**202**	**240**

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later d

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC*	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N	MW-9N
SAMPLE DATE	*Groundwater*	4/16/2004	7/15/2004	10/14/2004	2/3/2005	5/4/2005	9/7/2005	12/15/2005	3/23/2006	6/15/2006
Number or Days	*Standards/Criteria*									
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	ND	ND	ND	19JB	45	12
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB	4JB	3
Benzene	*0.7*	ND	ND	ND	ND	3	ND	**2J**	**2J**	**1**
Toluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	1	ND	ND	ND	ND
Total Xylenes	*5*	**16.7**	4.0	ND	ND	2.0	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	2	ND	ND	2	ND	2J	3J	3
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	1	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trimethylbenzene	*5*	**9.78**	2	ND	ND	1	ND	ND	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	**37.8**	**12**	ND	ND	**21**	2	2JB	ND	5
MTBE	*10*	**37.7**	**17**	**21.6**	ND	**10**	**10**	**11**	5J	8
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	1J	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	2	ND	ND	1	1	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	**17.5**	9	ND	ND	2	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	**26.9**	12.9	ANR	1260	**66.4**	**48.1**	**328**	**313**	19

Notes:

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** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 4

Historic Groundwater Sampling Analytical Data

Con Edison 3rd Avenue Service Center and Employee Parking Lot

Brooklyn, New York

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N	MW-10N
SAMPLE DATE		4/15/2004	7/14/2004	10/14/2004	2/3/2005	5/4/2005	9/8/2005	12/15/2005	3/23/2006	6/14/2006
Number or Days										
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	2J	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	20J	10
Acetone	*50*	ND	ND	ND	ND	ND	ND	**56B**	**76**	6
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	3JB	ND	ND
Benzene	*0.7*	ND	ND	ND	ND	ND	ND	ND	ND	2
Toluene	*5*	ND	ND	ND	ND	ND	**8**	ND	ND	ND
Ethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	*5*	ND	ND	**21**	ND	**21**	ND	ND	ND	ND
Isopropylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Butyl-benzene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ANR
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	ND	ND	ND	1J	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	ND	ND	2	2JB	ND	ND
MTBE	*10*	7.43	4	9.25	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	*5*	ND	ND	ND	ND	ND	ND	ND	ND	17
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ND	ND	ND	ND	ND	ND	2J	ANR	ANR
Anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthene	*20*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Acenaphthylene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)anthracene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(g,h,I)perylene	*5*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Benzo(a)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chloroform		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Chrysene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flouranthene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Flourene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenanthrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Pyrene	*50*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
3&4-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
2-Methyl Phenol		ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Phenol	*1*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Napthalene	*10*	ND	ND	ND	ND	ND	ND	ND	ANR	ANR
Metals (ppb)										
Lead	*25*	**59.4**	**37.3**	ANR	15.6	**164**	**304**	**128**	**166**	**130**

Notes:

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5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York

March 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S
SAMPLE DATE		3/27/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007	3/27/2007
LABORATORY ID#		0704-00015-002	0704-00015-006	0704-00015-003	0704-00015-004	0704-00015-007	0704-00015-001
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	ND	ND	**75 J,B**	ND	6 J,B
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	2 J, B	**35 J,B**	1 J,B	ND
Benzene	*0.7*	**4 J**	ND	ND	**94**	ND	ND
Toluene	*5*	ND	ND	ND	**51**	ND	ND
Ethylbenzene	*5*	**8**	ND	ND	**350**	ND	ND
Total Xylenes	*5*	ND	ND	ND	**5800**	ND	ND
Isopropylbenzene	*5*	4 J	ND	ND	**50 J**	ND	ND
n-Propylbenzene	*5*	**5**	ND	ND	**73**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**750**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	**11 J**	ND	ND
1,2,4-Trimethylbenzene	*5*	4 J	ND	ND	**3300**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	**10 J**	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	**550**	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**55**	**25**	9	**280**	ND	5
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Total)	*25*	ANR	ANR	ANR	**101**	ANR	ANR

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York

March 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-20S	MW-1N	MW-2N	MW-3N	MW-4N	MW-5N
SAMPLE DATE		3/27/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007	3/28/2007
LABORATORY ID#		0704-00015-005	0704-00015-015	0704-00015-016	0704-00015-011	0704-00015-013	0704-00015-014
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	9 J,B	ND	ND	**59 J,B**	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	**110**	ND	ND	**520**	ND
Toluene	*5*	ND	**11**	ND	ND	**16 J**	ND
Ethylbenzene	*5*	ND	**29**	ND	ND	**180**	ND
Total Xylenes	*5*	ND	**210**	ND	ND	**430**	ND
Isopropylbenzene	*5*	ND	**57**	2 J	ND	**24**	ND
n-Propylbenzene	*5*	ND	**41**	ND	ND	**21**	ND
1,3,5-Trimethylbenzene	*5*	ND	**29**	ND	ND	**65**	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	1 J	ND	ND	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	**190**	ND	ND	**180**	ND
sec-Butyl-benzene	*5*	ND	3 J	ND	ND	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	9	ND	ND	**170**	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	ND	3 J	ND	**15**	**180**	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ND	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	16	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	2 J	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	1 J	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	4 J	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	4 J	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	1 J	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	7 J	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	19	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	1 J	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ND	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	**130**	ANR
Metals (ppb)							
Lead (Total)	*25*	ANR	ND	**76.5**	**324**	**788**	12.3

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 3
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York

March 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		3/28/2007	3/28/2007	3/28/2007	--	3/27/2007	3/27/2007
LABORATORY ID#		0704-00015-009	0704-00015-012	0704-00015-010	0704-00015-017	0704-00015-008	0704-00015-018
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	5 J,B	5 J,B	ND	ND	ND
Acetone	*50*	15 J,B	45 B	29 B	10 J,B	9 J,B	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	1 J,B	2 J,B
Benzene	*0.7*	ND	ND	ND	**99**	ND	ND
Toluene	*5*	ND	1 J	1 J	**10**	ND	ND
Ethylbenzene	*5*	ND	ND	ND	**27**	ND	ND
Total Xylenes	*5*	ND	ND	ND	**198**	ND	ND
Isopropylbenzene	*5*	ND	**24**	ND	**54**	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	**38**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**28**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	1 J	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	**170**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	3 J	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	8	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	2 J	ND	ND	2 J	ND	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene		ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Total)	*25*	**555**	**381**	**456**	ND	ANR	ANR

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 6
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
June 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S
SAMPLE DATE		6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007
LABORATORY ID#		0706-00278-001	0706-00278-002	0706-00278-003	0706-00278-004	0706-00278-005	0706-00278-006
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		**8**	2 J	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND
Acetone	*50*	9 J	10 J	ND	14 J, B	ND	11 J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	**3 J**	ND	ND	**6**	ND	ND
Toluene	*5*	ND	ND	ND	3 J	ND	ND
Ethylbenzene	*5*	2 J	ND	ND	**34**	ND	ND
Total Xylenes	*5*	1 J	ND	ND	**690**	ND	ND
Isopropylbenzene	*5*	2 J	ND	ND	**10**	ND	ND
n-Propylbenzene	*5*	2 J	ND	ND	**22**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**380**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	**5 J**	ND	ND
1,2,4-Trimethylbenzene	*5*	2 J	ND	ND	**730**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	4 J	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	1 J	ND	ND	**110**	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**56**	**38**	**29**	**21**	ND	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,i)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Total)	*25*	ANR	ANR	ANR	**26.9**	ANR	ANR

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 6
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
June 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-20S	MW-1N	MW-2N	MW-3N	MW-4N	MW-5N
SAMPLE DATE		6/26/2007	6/27/2007	6/27/2007	6/27/2007	6/27/2007	6/26/2007
LABORATORY ID#		0706-00278-007	0706-00278-008	0706-00278-009	0706-00278-010	0706-00278-011	0706-00278-012
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	1 J	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND
Acetone	*50*	ND	13 J	16 J	ND	**170 B**	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	**100**	**9**	ND	**1900**	ND
Toluene	*5*	ND	**9**	2 J	ND	**96**	ND
Ethylbenzene	*5*	ND	4 J	3 J	ND	**660**	ND
Total Xylenes	*5*	ND	**53**	**6**	ND	**2750**	ND
Isopropylbenzene	*5*	ND	**59**	**13**	ND	**70**	ND
n-Propylbenzene	*5*	ND	**38**	**7**	ND	**60**	ND
1,3,5-Trimethylbenzene	*5*	ND	**11**	**11**	ND	**240**	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	2 J	ND	ND	**5 J**	ND
1,2,4-Trimethylbenzene	*5*	ND	**79**	**10**	ND	**800**	ND
sec-Butyl-benzene	*5*	ND	3 J	ND	ND	**5**	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	9	ND	ND	**630**	3 J
Methyl-Tert-Butyl-Ether (MTBE)	*10*	2 J	2 J	ND	**17**	**1300**	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ND	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	2 J	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	**24**	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ND	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ND	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ND	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	4 J	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ND	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ND	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	10	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	4 J	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	**110**	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	19	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	**14**	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ND	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	**310**	ANR
Metals (ppb)							
Lead (Total)	*25*	ANR	15.2	**29**	**544**	**218**	**39.9**

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 6
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
June 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		6/27/2007	6/27/2007	6/27/2007	--	6/27/2007	
LABORATORY ID#		0706-00278-013	0706-00278-014	0706-00278-015	0706-00278-018	0706-00278-016	0706-00278-017
Volatile Organic Compounds (ppb)							
Chloroform	*7*	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	18 J	ND	8 J	ND
Acetone	*50*	18 J, B	25 J, B	25 B	19 J,B	**46 B**	ND
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	ND	ND	ND	**6**	ND	ND
Toluene	*5*	ND	ND	**9**	3 J	ND	ND
Ethylbenzene	*5*	ND	ND	ND	**32**	ND	ND
Total Xylenes	*5*	ND	ND	ND	**670**	ND	ND
Isopropylbenzene	*5*	ND	**41**	ND	**10**	ND	ND
n-Propylbenzene	*5*	ND	ND	ND	**20**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**370**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	**5 J**	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	ND	ND	**740**	ND	ND
sec-Butyl-benzene	*5*	ND	ND	ND	4 J	ND	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	ND	ND	ND	**110**	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	ND	ND	ND	**21**	ND	ND
Semi-Volatile Organic Compounds (ppb)							
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)							
Lead (Total)	*25*	**280**	**398**	**1630**	**29**	ANR	ANR

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 7
Gauging Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York
July, August and October 2007

July 26, 2007

WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
MW-1N	210	ND	16.56	11.10	5.46
MW-2N	77	ND	16.91	11.43	5.48
MW-3N	81	ND	16.62	11.20	5.42
MW-4N	412	ND	16.19	10.63	5.56
MW-5N	Not Accesible	Not Accesible	Not Accesible	Not Accesible	Not Accesible
MW-8N	Not Accesible	Not Accesible	Not Accesible	Not Accesible	Not Accesible
MW-9N	0	ND	15.73	10.35	5.38
MW-10N	0	ND	16.90	11.48	5.42
MW-11S	8.4	ND	16.64	11.25	5.39
MW-12S	0.5	ND	16.76	11.30	5.46
MW-13S	1.1	ND	16.65	11.15	5.50
MW-14S	130	ND	16.29	10.85	5.44
MW-18S	0	ND	15.79	10.43	5.36
MW-19S	2.2	ND	16.36	10.87	5.49
MW-20S	0	ND	15.62	10.20	5.42

August 30, 2007

WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
MW-1N	10.5	ND	16.56	10.78	5.78
MW-2N	101	ND	16.91	11.10	5.81
MW-3N	21.1	ND	16.62	10.80	5.82
MW-4N	129	ND	16.19	10.30	5.89
MW-5N	167	ND	15.99	10.63	5.36
MW-8N	26.4	ND	16.39	10.54	5.85
MW-9N	14.2	ND	15.73	10.00	5.73
MW-10N	23	ND	16.90	11.10	5.80
MW-11S	61.4	ND	16.64	10.87	5.77

Table 7
Gauging Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York
July, August and October 2007

July 26, 2007

WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
MW-12S	79.9	ND	16.76	10.92	5.84
MW-13S	216	ND	16.65	10.80	5.85
MW-14S	2000	ND	16.29	10.45	5.84
MW-18S	97.7	ND	15.79	10.08	5.71
MW-19S	1510	ND	16.36	10.50	5.86
MW-20S	2000	ND	15.62	9.85	5.77

October 2 & 3, 2007

WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
MW-1N	194	ND	16.56	11.16	5.40
MW-2N	0	ND	16.91	11.44	5.47
MW-3N	0	ND	16.62	11.10	5.52
MW-4N	1467	ND	16.19	10.60	5.59
MW-5N	58.6	ND	15.99	10.60	5.39
MW-8N	43.2	ND	16.39	10.90	5.49
MW-9N	0	ND	15.73	10.25	5.48
MW-10N	0	ND	16.90	11.35	5.55
MW-11S	0	ND	16.64	11.22	5.42
MW-12S	0	ND	16.76	11.30	5.46
MW-13S	81.4	ND	16.65	11.22	5.43
MW-14S	3.3	ND	16.29	10.89	5.40
MW-18S	0	ND	15.79	10.52	5.27
MW-19S	42.9	ND	16.36	10.92	5.44
MW-20S	0	ND	15.62	10.25	5.37

Notes:
NM - Reference Elevations Not Measured
NA - Not Applicable

Table 9
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
October 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S	MW-1N	MW-2N
SAMPLE DATE		10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/2/2007	10/3/2007
LABORATORY ID#		0710-00068-021	0710-00068-023	0710-00068-019	0710-00068-020	0710-00068-022	0710-00068-018	0710-00068-017	0710-00068-024	0710-00068-009
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	13 J	ND	ND	17 J	ND	13 J	ND	26 B	15 J,B
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	2 J,B	ND	ND	ND	ND	1 J,B	ND	ND	ND
Benzene	*0.7*	**22**	ND	ND	**7**	ND	ND	ND	**110**	**8**
Toluene	*5*	1 J	ND	ND	3 J	ND	ND	ND	**28**	2 J
Ethylbenzene	*5*	**48**	ND	ND	**20**	ND	ND	ND	**18**	3 J
Total Xylenes	*5*	**11 J**	ND	ND	**320**	ND	ND	ND	**270**	**5 J**
Isopropylbenzene	*5*	**7**	ND	ND	3 J	ND	ND	ND	**60**	**12**
n-Propylbenzene	*5*	**9**	ND	ND	**5 J**	ND	ND	ND	**50**	**8**
1,3,5-Trimethylbenzene	*5*	ND	ND	ND	**91**	ND	ND	ND	**48**	**11**
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	1 J	ND	ND	ND	2 J	ND
1,2,4-Trimethylbenzene	*5*	**30**	ND	ND	**190**	ND	ND	ND	**130**	3
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	4 J	1 J
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	*10*	8	ND	ND	**40**	ND	ND	ND	**12**	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**140**	**19**	**24**	**21**	ND	ND	7	ND	4 J
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)										
Lead (Total)	*25*	ANR	ANR	ANR	**49**	ANR	ANR	ANR	**32**	**36**

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 9
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
October 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-3N	MW-4N	MW-5N	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		10/3/2007	10/3/2007	10/3/2007	10/3/2007	10/3/2007	10/3/2007	10/3/2007	10/4/2007	10/2/2007
LABORATORY ID#		0710-00068-010	0710-00068-011	0710-00068-012	0710-00068-013	0710-00068-014	0710-00068-015	0710-00068-016	0710-00068-008	0710-00068-025
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	**3 J**	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	11 J	35	14 J	14 J	**78**	12 J	41	36	13 J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	2 J,B	2 J,B	1 J,B	ND	3 J,B	4 J,B
Benzene	*0.7*	ND	**1200**	ND	ND	ND	ND	**1200**	ND	ND
Toluene	*5*	ND	**63**	1 J	ND	ND	1 J	**57**	ND	ND
Ethylbenzene	*5*	ND	**480**	ND	ND	ND	ND	**400**	ND	ND
Total Xylenes	*5*	ND	**1630**	ND	ND	ND	ND	**1,300**	ND	ND
Isopropylbenzene	*5*	ND	**37**	1 J	ND	**170**	ND	**31**	ND	ND
n-Propylbenzene	*5*	ND	**34**	ND	ND	ND	ND	**26**	ND	ND
1,3,5-Trimethylbenzene	*5*	ND	**110**	ND	ND	ND	ND	**86**	ND	ND
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	2 J	ND	ND	ND	ND	2 J	ND	ND
1,2,4-Trimethylbenzene	*5*	ND	**450**	ND	ND	ND	ND	**310**	ND	ND
sec-Butyl-benzene	*5*	ND	3 J	ND	ND	ND	ND	2 J	ND	ND
n-Butyl-benzene	*5*	ND	3 J	ND	ND	ND	ND	1 J	ND	ND
Naphthalene	*10*	ND	**310**	ND	ND	ND	ND	**140**	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**19**	**650**	ND	7	5 J	5 J	**500**	ND	ND
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)										
Lead (Total)	*25*	**180**	**540**	**30**	**150**	**760**	**190**	**390**	<10	ANR

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 10
Gauging Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York
October and December 2007

October 23, 2007

DATE	WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
10/23/07	MW-1N	*	ND	16.56	11.10	5.46
10/23/07	MW-2N	*	ND	16.91	11.40	5.51
10/23/07	MW-3N	*	ND	16.62	11.15	5.47
10/23/07	MW-4N	*	ND	16.19	10.70	5.49
10/23/07	MW-5N	*	ND	15.99	10.57	5.42
10/23/07	MW-8N	*	ND	16.39	11.07	5.32
10/23/07	MW-9N	*	ND	15.73	10.35	5.38
10/23/07	MW-10N	*	ND	16.90	11.35	5.55
10/23/07	MW-11S	*	ND	16.64	11.05	5.59
10/23/07	MW-12S	*	ND	16.76	11.10	5.66
10/23/07	MW-13S	*	ND	16.65	11.05	5.60
10/23/07	MW-14S	*	ND	16.29	10.75	5.54
10/23/07	MW-18S	*	ND	15.79	10.55	5.24
10/23/07	MW-19S	*	ND	16.36	10.85	5.51
10/23/07	MW-20S	*	ND	15.62	10.20	5.42

December 19 & 20, 2007

DATE	WELL NO.	PID READING (ppm)	FREE PRODUCT (ft.)	REFERENCE ELEVATION (ft.)	DEPTH TO GROUNDWATER (ft.)	WATER LEVEL ELEVATION (ft.)
12/20/07	MW-1N	187	ND	16.56	11.67	4.89
12/20/07	MW-2N	87.3	ND	16.91	11.97	4.94
12/20/07	MW-3N	62.5	ND	16.62	11.61	5.01
12/20/07	MW-4N	196	ND	16.19	11.08	5.11
12/19/07	MW-5N	NM	ND	15.99	11.00	4.91
12/20/07	MW-8N	25.3	ND	16.39	11.52	4.87
12/20/07	MW-9N	0.0	ND	15.73	10.79	4.94
12/19/07	MW-10N	6.0	ND	16.90	12.00	4.90
12/19/07	MW-11S	40.8	ND	16.64	11.85	4.79
12/19/07	MW-12S	3.9	ND	16.76	11.96	4.80
12/19/07	MW-13S	3.1	ND	16.65	11.80	4.85
12/19/07	MW-14S	24.7	ND	16.29	11.48	4.81
12/19/07	MW-18S	1.6	ND	15.79	10.88	4.91
12/19/07	MW-19S	2.4	ND	16.36	11.45	4.91
12/19/07	MW-20S	1.0	ND	15.62	10.83	4.79

Notes:
NM - Not Measured
NA - Not Applicable
* - PID failed to work

Table 12
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
December 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S	MW-1N	MW-2N
SAMPLE DATE		12/19/2007	12/19/2007	12/19/2007	12/19/2007	12/19/2007	12/19/2007	12/19/2007	12/20/2007	12/20/2007
LABORATORY ID#		071200220-002	071200220-005	071200220-004	071200220-006	071200220-003	071200220-001	071200220-007	071200220-012	071200220-014
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	*50*	10 J	45	ND	17 J	ND	31	ND	15 J	12 J
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	*0.7*	**21**	ND	ND	**9**	ND	ND	ND	**170**	**3 J**
Toluene	*5*	2 J	ND	ND	2 J	ND	ND	ND	**79**	1 J
Ethylbenzene	*5*	**44**	ND	ND	**33**	ND	1 J	ND	**260**	2 J
Total Xylenes	*5*	**63**	1 J	1 J	**219**	2 J	**5 J**	ND	**1070**	**7 J**
Isopropylbenzene	*5*	**6**	ND	ND	**5 J**	ND	ND	ND	**130**	**7**
n-Propylbenzene	*5*	**5**	ND	ND	**9**	ND	ND	ND	**100**	4 J
1,3,5-Trimethylbenzene	*5*	**10**	ND	ND	**75**	ND	ND	ND	**130**	3 J
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	*5*	ND	ND	ND	1 J	ND	ND	ND	4 J	ND
1,2,4-Trimethylbenzene	*5*	**68**	ND	ND	**160**	1 J	2 J	ND	**320**	**5 J**
sec-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	**7**	ND
n-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	4 J	ND
Naphthalene	*10*	8	ND	ND	**47**	ND	ND	ND	**11**	ND
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**110**	**19**	**13**	**26**	ND	ND	**10**	5 J	5 J
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	*20*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b,k)flouranthene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,I)perylene	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
3&4-Methyl Phenol		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	*50*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl Phenol	*5*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	*1*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Napthalene	*10*	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Metals (ppb)										
Lead (Total)	*25*	ANR	ANR	ANR	13.2	ANR	ANR	ANR	24.9	**47.8**

Notes:

1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5. ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**

Duplicate was collected from MW-1N

Table 12
Groundwater Sampling Analytical Results
Con Edison 3rd Avenue Service Center
Brooklyn, New York
December 2007

SAMPLE LOCATION	*NYSDEC Groundwater Standards/Criteria*	MW-3N	MW-4N	MW-5N	MW-8N	MW-9N	MW-10N	Duplicate	FB	TB
SAMPLE DATE		12/20/2007	12/20/2007	12/19/2007	12/20/2007	12/20/2007	12/19/2007	12/20/2007	12/20/2007	
LABORATORY ID#		071200220-015	071200220-010	071200220-009	071200220-011	071200220-013	071200220-008	071200220-016	071200220-017	
Volatile Organic Compounds (ppb)										
Chloroform	*7*	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone-(MEK)	*50*	ND	ND	ND	ND	ND	ND	ND	ND	
Acetone	*50*	28	28	ND	13 J	15 J	13 J	15 J	10 J	
Carbon Disulfide	*50*	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	*5*	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	*0.7*	ND	**1500**	ND	ND	ND	ND	**160**	ND	
Toluene	*5*	ND	**75**	ND	ND	ND	4 J	**77**	ND	
Ethylbenzene	*5*	ND	**1100**	2 J	ND	1 J	ND	**230**	ND	
Total Xylenes	*5*	ND	**2790**	**5 J**	ND	4 J	ND	**1,020**	ND	
Isopropylbenzene	*5*	ND	**120**	ND	ND	**180**	ND	**130**	ND	
n-Propylbenzene	*5*	ND	**110**	ND	ND	ND	ND	**100**	ND	
1,3,5-Trimethylbenzene	*5*	ND	**350**	2 J	ND	ND	ND	**120**	ND	
Tert-Butyl-benzene	*5*	ND	ND	ND	ND	ND	ND	ND	ND	
4-Isopropyltoluene	*5*	ND	**6**	ND	ND	ND	ND	4 J	ND	
1,2,4-Trimethylbenzene	*5*	ND	**1200**	4 J	ND	2	ND	**310**	ND	
sec-Butyl-benzene	*5*	ND	**7**	ND	ND	ND	ND	**7**	ND	
n-Butyl-benzene	*5*	ND	**6**	ND	ND	ND	ND	4 J	ND	
Naphthalene	*10*	ND	**860**	**13**	ND	ND	ND	**10**	ND	
Methyl-Tert-Butyl-Ether (MTBE)	*10*	**13**	**680**	ND	6	5	4 J	5 J	ND	
Semi-Volatile Organic Compounds (ppb)										
bis(2-Ethylhexyl)phthalate	*5*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Anthracene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Acenaphthene	*20*	ANR	**65 J**	ANR	ANR	ANR	ANR	ANR	ND	
Di-n-butylphthalate		ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Acenaphthylene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Benzo(a)anthracene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Benzo(b,k)flouranthene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Benzo(g,h,I)perylene	*5*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Benzo(a)pyrene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Chrysene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Dibenzo(a,h)anthracene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Dibenzofuran		ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Fluoranthene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Fluorene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Indeno(1,2,3-cd)pyrene	*0.002*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Phenanthrene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Pyrene	*50*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
3&4-Methyl Phenol		ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
2-Methylnaphthalene	*50*	ANR	**65 J**	ANR	ANR	ANR	ANR	ANR	ND	
2-Methyl Phenol	*5*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Phenol	*1*	ANR	ND	ANR	ANR	ANR	ANR	ANR	ND	
Napthalene	*10*	ANR	**850**	ANR	ANR	ANR	ANR	ANR	ND	
Metals (ppb)										
Lead (Total)	*25*	**612**	**395**	20.3	**65**	**287**	**909**	**25.5**	ND	

Notes:
1. NE = Not established
2. J = Indicates estimated concentration for parameter indicated.
3. ND = Indicates parameter Not Detected at laboratory method detection limit.
4. B = Indicates parameter was also detected in Trip and Field Blanks.
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York Groundwater Quality Criteria**
Duplicate was collected from MW-1N

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-11S	4/14/2004	11.49	**9.55**	ND	**13.1**	**43.2**	ND	ND	**6.63**	ANR	ND	**106**	ND	ND	ND	**260**	**438**
	7/13/2004	11.18	**48**	**12**	**290**	**322.0**	**21**	**33**	**35**	ANR	ND	**600**	2	ND	**120**	**860**	**2343**
	10/14/2004	10.77	**27.6**	ND	**99.2**	**72.74**	**9.93**	**15.3**	**7.98**	ANR	ND	**191**	ND	ND	**56.3**	**484**	**964**
	2/2/2005	11.82	**2**	ND	4	**14**	ND	ND	3	ANR	ND	**29**	ND	ND	ND	**86**	**138**
	5/4/2005	11.54	**160**	97	**440**	**1,040**	**23**	**26**	ND	ANR	ND	**510**	ND	ND	**83**	**890**	**3269**
	12/14/2005	11.50	**21**	ND	ND	**19**	ND	ND	ND	ANR	ND	**130**	ND	ND	**13B**	**210**	**380**
	3/22/2006	11.75	**18**	1J	ND	**52**	7	9	8	ANR	ND	**83**	ND	ND	**13B**	**230**	**407**
	6/13/2006	11.57	**17**	1	**45**	**24**	7	8	4	ANR	ND	**84**	ND	ND	**10**	**210**	**410**
	9/27/2006	11.67	**38**	1J	**110**	**12J**	**13**	**18**	ND	ND	ND	**170**	1J	ND	**17**	**280**	**646**
	12/19/2006	11.60	**11**	1J	**32**	2J	**5**	**7**	ND	ND	ND	**38**	ND	ND	5	**55**	**153**
	3/27/2007	11.66	**4 J**	ND	**8**	ND	4 J	**5**	ND	ND	ND	4 J	ND	ND	ND	**55**	**80**
	6/26/2007	11.40	**3 J**	ND	**2 J**	**1 J**	**2 J**	**2 J**	ND	ND	ND	2 J	ND	ND	**1 J**	**56**	**69**
	10/2/2007	11.22	**22**	1 J	**48**	**11 J**	**7**	**9**	ND	ND	ND	**30**	ND	ND	8	**140**	**276**
	12/19/2007	11.85	**21**	2	**44**	**63**	**6**	**5**	**10**	ND	ND	**68**	ND	ND	8	**110**	**337**
MW-12S	4/14/2004	11.58	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**69.2**	**69**
	7/14/2004	11.26	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**28**	**28**
	10/14/2004	10.84	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**30**	**30**
	2/2/2005	11.92	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**23**	**23**
	5/4/2005	11.50	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**59**	**59**
	9/7/2005	11.41	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**43**	**43**
	12/14/2005	11.56	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	6	6
	3/22/2006	11.56	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**22**	**22**
	6/13/2006	11.74	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	3	**30**	**33**
	9/27/2006	11.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**28**	**28**
	12/19/2006	11.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**24**	**24**
	3/27/2007	11.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**25**	**25**
	6/26/2007	11.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**38**	**38**
	10/2/2007	11.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**19**	**19**
	12/19/2007	11.96	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**19**	**20**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-13S	4/14/2004	11.48	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**52.5**	**53**
	7/13/2004	11.16	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**37**	**37**
	10/13/2004	10.76	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**32.2**	**32**
	2/2/2005	11.75	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**11**	**11**
	5/4/2005	11.39	ND	ND	ND	ND	ND	ND	ND	ANR	ND	1	ND	ND	ND	**20**	**21**
	9/7/2005	11.54	ND	ND	ND	ND	2	ND	ND	ANR	ND	ND	ND	ND	ND	**92**	**94**
	12/14/2005	11.65	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**41**	**41**
	3/22/2006	11.59	**2J**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	6/15/2006	11.45	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**37**	**37**
	9/27/2006	10.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1J	**35**	**35**
	12/19/2006	11.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17**	**17**
	3/27/2007	11.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	9
	6/26/2007	11.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**29**	**29**
	10/2/2007	11.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**24**	**24**
	12/19/2007	11.80	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13**	**14**
MW-14S	4/14/2004	11.15	**445**	**1730**	**1130**	**11370**	**90.6**	**185**	**759**	ANR	ND	**2750**	ND	ND	**1150**	**838**	**20448**
	7/13/2004	10.84	**120**	**710**	**650**	**7500**	**50**	**90**	**700**	ANR	ND	**2600**	8	ND	**1800**	**510**	**14738**
	10/13/2004	10.35	**264**	**843**	**653**	**9450**	**61.8**	**106**	**766**	ANR	ND	**2810**	**8.24**	ND	**710**	**558**	**16230**
	2/2/2005	11.44	ND	**170**	**180**	**4700**	ND	ND	**660**	ANR	ND	**2300**	ND	ND	**210**	ND	**8220**
	5/4/2005	11.09	**100**	**610**	**410**	**5200**	ND	**70**	**540**	ANR	ND	**1900**	ND	ND	**680**	**450**	**9960**
	9/7/2005*	11.21	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR
	12/14/2005	11.28	**78**	**320**	**68**	**3100**	**12**	6	**470**	ANR	ND	**540**	ND	ND	**580B**	**450**	**5044**
	3/22/2006	11.22	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**37**	**37**
	6/13/2006	11.28	**36**	**32**	**190**	**1,760**	**43**	**95**	**360**	ANR	**9**	**1,400**	ND	ND	**180**	**180**	**4285**
	9/27/2006	10.92	**44**	**48**	**66**	**1,490**	**10**	**16**	**370**	ND	4J	**830**	2J	ND	**170**	**160**	**3204**
	12/19/2006	11.61	**38J**	**34J**	**77**	**1,500**	**10J**	**21J**	**340**	ND	**17J**	**980**	ND	ND	**170**	**130**	**3197**
	3/27/2007	11.26	**94**	**51**	**350**	**5,800**	**50 J**	**73**	**750**	ND	**11 J**	**3,300**	**10 J**	ND	**550**	**280**	**11319**
	6/26/2007	11.05	**6**	3 J	**34**	**690**	**10**	**22**	**380**	ND	**5 J**	**730**	**4 J**	ND	**110**	**21**	**2015**
	10/2/2007	10.89	**7**	3 J	**20**	**320**	3 J	**5 J**	**91**	ND	1 J	**190**	ND	ND	**40**	**21**	**741**
	12/19/2007	11.48	**9**	2 J	**33**	**219**	**5 J**	**9**	**75**	ND	1 J	**160**	ND	ND	**47**	**26**	**586**

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Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-18S	4/14/2004	10.39	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	7/14/2004	10.82	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	10/13/2004	10.60	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	2/2/2005	10.37	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	9.96	ND	**6**	4	**54**	ND	1	**10**	ANR	ND	**36**	ND	2	**16**	4	**133**
	9/7/2005	10.82	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	12/14/2005	11.28	ND	ND	ND	**8J**	ND	ND	1J	ANR	ND	**6**	ND	ND	2JB	ND	6
	3/22/2006	11.22	3J	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	6/13/2006	11.28	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	1.3	ND	1
	9/27/2006	10.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2006	11.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/27/2007	10.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/26/2007	10.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	10/2/2007	10.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2007	10.88	ND	ND	ND	2 J	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	3
MW-19S	4/14/2004	10.85	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	7/13/2004	10.40	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	10/13/2004	11.38	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	2/2/2005	11.03	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	11.22	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	9/23/2005	11.09	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	12/14/2005	11.00	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	3/22/2006	10.48	3JB	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	6/13/2006	11.18	**3**	1	1	1	ND	ND	ND	ANR	ND	1	ND	ND	3	ND	**10**
	9/27/2006	10.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2006	11.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/27/2007	11.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	5
	6/26/2007	11.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	10/2/2007	10.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	12/19/2007	11.40	ND	ND	1 J	**5 J**	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	8

Table 13
Historial Data
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Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-20S	4/15/2004	10.16	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	**12.6**	ND	**13**
	7/14/2004	9.83	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	5	5
	10/13/2004	10.86	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**11.1**	**11**
	2/2/2005	10.45	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**6**	6
	5/4/2005	10.68	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**5**	5
	9/7/2005	11.51	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	2	2
	12/14/2005	11.28	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	6	6
	3/22/2006	11.22	**9**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	5J	9
	6/13/2006	11.28	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	1	4	5
	9/27/2006	10.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	0
	12/19/2006	10.42	**1J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	2J	0
	3/27/2007	10.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/26/2007	10.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	2
	10/2/2007	10.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	7
	12/19/2007	10.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10**	**10**
MW-1N	4/16/2004	11.79	**150**	**44.2**	**149**	**160.5**	**63.4**	**51.5**	**12.0**	ANR	ND	**293**	ND	ND	**26.6**	ND	**950**
	7/14/2004	11.32	**90**	**96**	**100**	**400**	**31**	**19**	**23.0**	ANR	2	**220**	2	ND	**18**	ND	**1001**
	10/14/2004	10.72	**296**	**905**	**446**	**2087**	**68.2**	**53.4**	**89.7**	ANR	ND	**266**	ND	ND	**9.43**	ND	**4221**
	2/3/2005	11.64	**75**	**8.0**	**79**	**230**	**20**	**14**	**51**	ANR	ND	**280**	ND	ND	**55**	ND	**812**
	5/4/2005	11.37	**36**	**6**	**48**	**32**	**9**	**7**	**5.0**	ANR	ND	**38**	ND	ND	5	ND	**186**
	9/8/2005	11.40	**84**	**8**	**61**	**23**	**13**	**8**	ND	ANR	ND	**54**	ND	ND	**10**	4	**265**
	12/15/2005	11.35	**150**	**6**	**110**	**71**	**42**	**24**	1	ANR	ND	**82**	ND	ND	2JB	8	**494**
	3/23/2006	11.68	**94**	**3J**	**46**	**6**	**58**	**40**	ND	ANR	ND	**28**	3J	ND	ND	6	**278**
	6/15/2006	11.61	**98**	**5**	**21**	**7**	**50**	**32**	ND	ANR	ND	**34**	3	ND	3	3	**256**
	9/27/2006	11.13	**200**	**55**	**262**	**82**	**61**	**32**	**12**	ND	1J	**95**	ND	ND	4J	1J	**799**
	12/19/2006	11.40	**170**	**19**	**57**	**251**	**93**	**68**	**31**	ND	3J	**140**	**5**	ND	**11**	ND	**845**
	3/28/2007	11.90	**110**	**11**	**29**	**210**	**57**	**41**	**29**	ND	1 J	**190**	3 J	ND	9	3 J	**693**
	6/27/2007	11.33	**100**	**9**	4 J	**53**	**59**	**38**	**11**	ND	2 J	**79**	3 J	ND	9	2 J	**369**
	10/2/2007	11.16	**110**	**28**	**18**	**270**	**60**	**50**	**48**	ND	2 J	**130**	4 J	ND	**12**	ND	**732**
	12/20/2007	11.61	**170**	**79**	**260**	**1070**	**130**	**100**	**130**	ND	4 J	**320**	**7**	4 J	**11**	5 J	**2290**

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SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-2N	4/15/2004	12.09	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	5.10	5
	7/14/2004	11.62	ND	3	ND	3	4	1	3	ANR	ND	4	ND	ND	ND	ND	**18**
	10/14/2004	11.09	**23.1**	ND	**16**	**34**	**22.1**	**13.8**	**51**	ANR	ND	**67.4**	ND	ND	ND	ND	**228**
	2/3/2005	11.96	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	11.70	**2**	ND	1	ND	4	2	ND	ANR	ND	2	ND	ND	ND	4.00	**15**
	9/7/2005	11.74	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	4	4
	12/15/2005	11.65	**2J**	ND	ND	ND	1J	ND	ND	ANR	ND	ND	ND	ND	ND	5J	0
	3/23/2006	11.98	**2J**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	3J	0
	6/14/2006	11.67	**3**	ND	ND	ND	3	1.0	ND	ANR	ND	ND	ND	ND	1.0	1	9
	9/27/2006	11.36	**7**	2J	4J	**7J**	**14**	**8**	**12**	ND	ND	**13**	ND	ND	1J	1J	**54**
	12/19/2006	11.60	2J	1J	4J	3J	7	3J	4J	ND	ND	3J	ND	ND	ND	1J	7
	3/28/2007	12.24	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
	6/27/2007	11.65	**9**	2 J	3 J	**6**	**13**	**7**	**11**	ND	ND	**10**	ND	ND	ND	ND	**61**
	10/3/2007	11.44	**8**	2 J	3 J	**5 J**	**12**	**8**	**11**	ND	ND	3	1 J	ND	ND	4 J	**57**
	12/20/2007	11.97	**3 J**	1 J	2 J	**7 J**	**7**	4 J	3 J	ND	ND	**5 J**	ND	ND	ND	5 J	**37**
MW-3N	4/15/2004	11.71	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	7/15/2004	11.33	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	10/13/2004	10.82	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**18.9**	**19**
	2/3/2005	11.73	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**15**	**15**
	5/4/2005	11.43	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**10**	**10**
	9/8/2005	11.32	**2**	1	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**17**	**20**
	12/15/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**24**	**24**
	3/23/2006	11.72	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**22**	**22**
	6/14/2006	11.60	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	9	9
	9/28/2006	11.16	**2J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**22**	**22**
	12/19/2006	11.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**20**	**20**
	3/28/2007	11.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**15**	**15**
	6/27/2007	11.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17**	**17**
	10/3/2007	11.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**19**	**19**
	12/20/2007	11.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13**	**13**

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SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-4N	2/3/2005	11.31	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ND	ANR	ANR	ANR	ANR	ANR	ANR
	4/16/2004	10.84	**2180**	**1580**	**1560**	**7700**	**210**	**165**	**816**	ANR	**9.41**	**2560**	**13.0**	ND	**5140**	**2230**	**24163**
	7/15/2004	10.35	**2690**	**4430**	**1430**	**8990**	**235**	**199**	**642**	ANR	**10.9**	**1990**	**14.7**	ND	**1400**	**1790**	**23822**
	10/13/2004	10.96	**2000**	**3900**	**1900**	**1400**	**250**	**210**	**650**	ANR	**13**	**2000**	**17.0**	ND	**980**	**870**	**14190**
	5/4/2005	11.00	**1200**	**1800**	**1100**	**6800**	**180**	**180**	**510**	ANR	ND	**2000**	ND	ND	**2200**	**1700**	**17670**
	9/8/2005	11.91	**4400**	**3300**	**1000**	**4700**	**160**	**150**	**420**	ANR	ND	**1700**	ND	ND	ND	**2600**	**18430**
	12/15/2005	11.25	**930**	**630**	**550**	**3000**	**69**	**64**	**190**	ANR	**12**	**650**	ND	ND	**1000B**	**1200**	**7295**
	3/23/2006	11.03	**3400**	**1900**	**940**	**4400**	**79**	**70**	**190**	ANR	**5**	**1100**	ND	ND	**3300**	**3500**	**18884**
	6/14/2006	11.03	**1200**	**300**	**400**	**1730**	**57**	**49**	**140**	ANR	4	ND	ND	ND	**210**	**920**	**5010**
	9/28/2006	10.70	**1300**	**270**	**519**	**2277**	**66**	**57**	**160**	ND	4J	**600**	4J	ND	**430**	**600**	**6279**
	12/20/2006	11.06	**1100**	**95J**	**410**	**1570**	**60J**	**57J**	**140**	ND	ND	**510**	ND	ND	**320**	**560**	**4610**
	3/28/2007	11.48	**520**	**16 J**	**180**	**430**	**24**	**21**	**65**	ND	ND	**180**	ND	ND	**170**	**180**	**1786**
	6/27/2007	10.82	**1900**	**96**	**660**	**2750**	**70**	**60**	**240**	ND	**5 J**	**800**	**5**	ND	**630**	**1300**	**8516**
	10/3/2007	10.60	**1200**	**63**	**480**	**1630**	**37**	**34**	**110**	ND	2 J	**450**	3 J	3 J	**310**	**650**	**4972**
	12/20/2007	11.08	**1500**	**75**	**1100**	**2790**	**120**	**110**	**350**	ND	**6**	**1200**	**7**	**6**	**860**	**680**	**8804**
MW-5N	4/16/2004	11.11	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	7/15/2004	10.73	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	10/14/2004	10.19	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	2/3/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	10.85	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	9/8/2005	10.75	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	2	ND	2
	12/15/2005	11.80	ND	ND	ND	1J	ND	ND	ND	ANR	ND	ND	ND	ND	3JB	ND	0
	3/23/2006	11.20	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	6/14/2006	11.02	**2**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	1	ND	3
	9/27/2006	10.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4J	ND	0
	12/19/2006	11.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/28/3007	11.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/26/2007	10.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	3
	10/3/2007	10.60	ND	1 J	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
	12/19/2007	11.00	ND	ND	2 J	**5 J**	ND	ND	2 J	ND	ND	4 J	ND	ND	**13**	ND	**26**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-8N	4/15/2004	11.54	**7.93**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**46.4**	**54**
	7/15/2004	11.18	**3**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	6	9
	10/14/2004	10.55	**12.4**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**51.6**	**64**
	2/3/2005	11.47	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	11.10	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**3**	3
	9/8/2005	11.23	**2**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	8	**10**
	12/15/2005	11.25	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	3J	0
	3/23/2006	11.54	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	4J	0
	6/14/2006	11.33	**3**	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	3
	9/28/2006	10.89	**2J**	1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	5
	12/19/2006	11.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3J	3
	3/28/2007	11.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	2
	6/27/2007	11.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	10/3/2007	10.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	7
	12/20/2007	11.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	6
MW-9N	4/16/2004	11.89	ND	ND	ND	**16.7**	ND	ND	ND	ANR	ND	**9.78**	ND	ND	**37.8**	**37.7**	**102**
	7/15/2004	10.52	ND	ND	ND	4.0	2	ND	1	ANR	ND	2	ND	ND	**12**	**17**	**38**
	10/14/2004	9.98	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	**21.6**	**22**
	2/3/2005	10.88	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	10.61	3	ND	1	2.0	2	ND	ND	ANR	ND	1	ND	ND	**21**	**10**	**40**
	9/7/2005	10.70	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	2	**10**	**12**
	12/15/2005	10.58	**2J**	ND	ND	ND	2J	ND	ND	ANR	ND	ND	ND	ND	2JB	**11**	**11**
	3/23/2006	10.78	**2J**	ND	ND	ND	3J	ND	ND	ANR	ND	ND	ND	ND	ND	5J	0
	6/15/2006	10.78	**1**	ND	ND	ND	3	ND	ND	ANR	ND	ND	ND	ND	5	8	**17**
	9/28/2006	10.31	**2J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	6	6
	12/19/2006	10.74	ND	ND	ND	ND	**78**	ND	ND	ND	ND	ND	ND	ND	3J	7	**85**
	3/28/2007	11.05	ND	1 J	ND	ND	**24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**25**
	6/27/2007	10.57	ND	ND	ND	ND	**41**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**41**
	10/3/2007	10.25	ND	ND	ND	ND	**170**	ND	ND	ND	ND	ND	ND	ND	ND	5 J	**175**
	12/20/2007	10.79	ND	ND	1 J	4 J	**180**	ND	ND	ND	ND	2	ND	ND	ND	5	**192**

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Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Volatile Organic Compounds (ppb)														
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	Tert-Butyl-benzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	sec-Butyl-benzene	n-Butyl-benzene	Naphthalene	MTBE	Total VOCs
NYS GA Standard			***0.7***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***5***	***10***	***10***	***10***
MW-10N	4/15/2004	11.69	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	7.43	7
	7/14/2004	11.98	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	4	4
	10/14/2004	11.58	ND	ND	ND	**21**	ND	ND	ND	ANR	ND	ND	ND	ND	ND	9.25	**30**
	2/3/2005	11.08	ND	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	0
	5/4/2005	11.92	ND	ND	ND	**21**	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	**21**
	9/8/2005	11.64	ND	**8**	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	2	ND	**10**
	12/15/2005	11.64	ND	ND	ND	ND	ND	ND	ND	ANR	ND	1J	ND	ND	2JB	ND	0
	3/23/2006	12.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	6/14/2006	11.88	2	ND	ND	ND	ND	ND	ND	ANR	ND	ND	ND	ND	ND	ND	2
	9/28/2006	11.43	ND	**32**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**32**
	12/20/2006	11.82	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
	3/28/2007	12.28	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
	6/27/2007	11.64	ND	**9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9
	10/3/2007	11.35	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5 J	6
	12/19/2007	12.00	ND	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	8

Notes:

* - Indicates that glassware damage during transport to the laboratory and some analysis was not run (ANR).

+ - Indicates that VOCs glassware damaged during initial sampling event. VOCs samples collected at a later date.

** - Indicates Analysis Not Run due to free product in MW

1. NE = Not established

2. J = Indicates estimated concentration for parameter indicated.

3. ND = Indicates parameter Not Detected at laboratory method detection limit.

4. B = Indicates parameter was also detected in Trip and Field Blanks.

5.ANR-Analysis Not Run for parameter indicated

6. **Indicates exceedance of the New York States GA Standard**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-11S	4/14/2004	11.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	7/13/2004	11.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/14/2004	10.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.82	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				2	6.60
	5/4/2005	11.54	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND				5	13.5
	12/14/2005	11.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	13.8
	3/22/2006	11.75	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.57	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	11.67	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	11.66	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	11.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	8	ANR
	12/19/2007	11.85	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
MW-12S	4/14/2004	11.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	7/14/2004	11.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/14/2004	10.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	11.1
	5/4/2005	11.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	5.62
	9/7/2005	11.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	8.10
	12/14/2005	11.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**36**
	3/22/2006	11.56	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.74	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	11.36	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.53	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	11.74	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	11.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	11.30	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2007	11.96	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-13S	4/14/2004	11.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	7/13/2004	11.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/13/2004	10.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	10.4
	5/4/2005	11.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	12.4
	9/7/2005	11.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	12/14/2005	11.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	3/22/2006	11.59	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/15/2006	11.45	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	10.98	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.45	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	11.65	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	11.35	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2007	11.80	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
MW-14S	4/14/2004	11.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	18.9
	7/13/2004	10.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/13/2004	10.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.44	2	2	1	2	ND	ND	1	2	ND	5	4	ND	9	4				32	**55.2**
	5/4/2005	11.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	4	ND				7	11.4
	9/7/2005*	11.21	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/14/2005	11.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	4.25
	3/22/2006	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	23.5
	6/13/2006	11.28	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	14
	9/27/2006	10.92	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	11.7
	12/19/2006	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**31.2**
	3/27/2007	11.26	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**101**
	6/26/2007	11.05	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**26.9**
	10/2/2007	10.89	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**49**
	12/19/2007	11.48	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	13.2

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-18S	4/14/2004	10.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	7/14/2004	10.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/13/2004	10.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	10.37	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	3.5
	5/4/2005	9.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	9/7/2005	10.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	12/14/2005	11.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	3/22/2006	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.28	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	10.92	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	10.30	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	10.50	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	10/2/2007	10.52	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
	12/19/2007	10.88	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0.0	ANR
MW-19S	4/14/2004	10.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**142**
	7/13/2004	10.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	10/13/2004	11.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	11.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	5/4/2005	11.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	4.05
	9/23/2005	11.09	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	8.41
	12/14/2005	11.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	22.4
	3/22/2006	10.48	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.18	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	10.87	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	11.02	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	11.21	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	11.00	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	10.92	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2007	11.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR

Table 13
Historial Data
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SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-20S	4/15/2004	10.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	10.1
	7/14/2004	9.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	16.6
	10/13/2004	10.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/2/2005	10.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	5/4/2005	10.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**33.9**
	9/7/2005	11.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	9.16
	12/14/2005	11.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	6.56
	3/22/2006	11.22	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/13/2006	11.28	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	9/27/2006	10.25	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	12/19/2006	10.42	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	3/27/2007	10.66	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	6/26/2007	10.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	10/2/2007	10.25	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
	12/19/2007	10.83	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	ANR
MW-1N	4/16/2004	11.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	21.2
	7/14/2004	11.32	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	1	ND				9	**31.6**
	10/14/2004	10.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.64	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				4	ND
	5/4/2005	11.37	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				1	6.12
	9/8/2005	11.40	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				3	**291.0**
	12/15/2005	11.35	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	3.95
	3/23/2006	11.68	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	6/15/2006	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	9/27/2006	11.13	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	12/19/2006	11.40	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	3/28/2007	11.90	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	6/27/2007	11.33	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	15.2
	10/2/2007	11.16	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**32**
	12/20/2007	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	24.9

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SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-2N	4/15/2004	12.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	18.3
	7/14/2004	11.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/14/2004	11.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**27.1**
	5/4/2005	11.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	15.7
	9/7/2005	11.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	3.79
	12/15/2005	11.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	3/23/2006	11.98	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	14.7
	6/14/2006	11.67	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	12
	9/27/2006	11.36	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	20.7
	12/19/2006	11.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	13.3
	3/28/2007	12.24	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**76.5**
	6/27/2007	11.65	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**29**
	10/3/2007	11.44	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**36**
	12/20/2007	11.97	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**47.8**
MW-3N	4/15/2004	11.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**26.1**
	7/15/2004	11.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**121**
	10/13/2004	10.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**206**
	5/4/2005	11.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**49.3**
	9/8/2005	11.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**157.0**
	12/15/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**556**
	3/23/2006	11.72	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**1330**
	6/14/2006	11.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**73**
	9/28/2006	11.16	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**45**
	12/19/2006	11.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**435**
	3/28/2007	11.95	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**324**
	6/27/2007	11.37	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**544**
	10/3/2007	11.10	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**180**
	12/20/2007	11.61	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**612**

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SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-4N	2/3/2005	11.31	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ANR
	4/16/2004	10.84	ND	5.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				5.42	**96.2**
	7/15/2004	10.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	10/13/2004	10.96	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	3	1				12	**623**
	5/4/2005	11.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**135**
	9/8/2005	11.91	4	**62**	ND	ND	ND	ND	ND	ND	ND	5	19	ND	22	4				**116**	**33.1**
	12/15/2005	11.25	2J	**35**	ND	**1J**	ND	ND	ND	1J	ND	4J	8	ND	9	6				**58**	**149**
	3/23/2006	11.03	1J	**36**	1J	ND	ND	ND	ND	ND	ND	1J	7	ND	8	1J				**51**	**373**
	6/14/2006	11.03	2	**29**	1	ND	ND	ND	ND	ND	ND	2	6	ND	4	3				47	**170**
	9/28/2006	10.70	4J	**55**	ND	**3J**	**3J**	ND	**3J**	**2J**	ND	9	14	ND	22	11				**111**	**290**
	12/20/2006	11.06	ND	19	2JB	ND	ND	ND	ND	ND	ND	ND	4J	ND	22	ND				41	**319**
	3/28/2007	11.48	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	4 J	ND	4 J	1 J				25	**788**
	6/27/2007	10.82	2J	**24**	ND	ND	ND	ND	ND	ND	ND	4J	ND	ND	10	4 J	**19**	**14**	**310**	**387**	**218**
	10/3/2007	10.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**540**
	12/20/2007	11.08	ND	**65 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**65 J**	ND	**850**	**980**	**395**
MW-5N	4/16/2004	11.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**26.2**
	7/15/2004	10.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	10/14/2004	10.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	5/4/2005	10.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	9.12
	9/8/2005	10.75	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				2	4.12
	12/15/2005	11.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ND
	3/23/2006	11.20	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	11.7
	6/14/2006	11.02	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	9/27/2006	10.64	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	ND
	12/19/2006	11.03	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	10.8
	3/28/3007	11.24	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	12.3
	6/26/2007	10.80	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**39.9**
	10/3/2007	10.60	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**30**
	12/19/2007	11.00	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	20.3

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Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-8N	4/15/2004	11.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	21.0
	7/15/2004	11.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**40.6**
	10/14/2004	10.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	19.2
	5/4/2005	11.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**63.4**
	9/8/2005	11.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**87.4**
	12/15/2005	11.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**126**
	3/23/2006	11.54	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**202**
	6/14/2006	11.33	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**240**
	9/28/2006	10.89	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**316**
	12/19/2006	11.38	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**198**
	3/28/2007	11.70	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**555**
	6/27/2007	11.14	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**280**
	10/3/2007	10.90	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**150**
	12/20/2007	11.08	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**65**
MW-9N	4/16/2004	11.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**26.9**
	7/15/2004	10.52	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				2	12.9
	10/14/2004	9.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	10.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**1260**
	5/4/2005	10.61	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				1	**66.4**
	9/7/2005	10.70	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				1	**48.1**
	12/15/2005	10.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**328**
	3/23/2006	10.78	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**313**
	6/15/2006	10.78	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	19
	9/28/2006	10.31	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**32.1**
	12/19/2006	10.74	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**77.5**
	3/28/2007	11.05	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**381**
	6/27/2007	10.57	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**398**
	10/3/2007	10.25	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**760**
	12/20/2007	10.79	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**287**

Table 13
Historial Data
Con Edison 3rd Avenue Service Center
Brooklyn, New York

SAMPLE LOCATION	SAMPLE DATE	Depth to Water (ft)	Semi-Volatile Organic Compounds (ppb)																		Metals (ppb)
			Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(b,k)flouranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Flouranthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2-Methylnaphthalene	2-Methyl Phenol	Napthalene	Total SVOCs	Lead (Total)
NYS GA Standard			***50***	***20***	***50***	***0.002***	***0.002***	***5***	***0.002***	***0.002***	***50***	***50***	***50***	***0.002***	***50***	***50***				***500***	***25***
MW-10N	4/15/2004	11.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**59.4**
	7/14/2004	11.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**37.3**
	10/14/2004	11.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	ANR
	2/3/2005	11.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	15.6
	5/4/2005	11.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**164**
	9/8/2005	11.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**304**
	12/15/2005	11.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				0	**128**
	3/23/2006	12.00	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**166**
	6/14/2006	11.88	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**130**
	9/28/2006	11.43	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**166**
	12/20/2006	11.82	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**264**
	3/28/2007	12.28	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR				0	**456**
	6/27/2007	11.64	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**1630**
	10/3/2007	11.35	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**190**
	12/19/2007	12.00	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	0	**909**

Notes:
* - Indicates that glassware damage during transport to tl
+ - Indicates that VOCs glassware damaged during initia
** - Indicates Analysis Not Run due to free product in M\
1. NE = Not established
2. J = Indicates estimated concentration for parameter in
3. ND = Indicates parameter Not Detected at laboratory
4. B = Indicates parameter was also detected in Trip and
5.ANR-Analysis Not Run for parameter indicated
6. **Indicates exceedance of the New York States GA S**

TABLE 1
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION (Depth)	NY CP-51 Soil Cleanup Objectives	SBS-1 (12-13')	SBS-1 (14-15')	SBS-2 (13-14')	SBS-2 (19-20')	SBS-3 (10-10.5')	SBS-4 (11.5-12')
SAMPLE DATE		3/26/2010	3/26/2010	3/26/2010	3/26/2010	3/25/2010	3/25/2010
LABORATORY ID#		460-11644-1	460-11644-2	460-11644-3	460-11644-4	460-11615-1	460-11615-2
DILUTION FACTOR		50	50	200	1	1	50
MATRIX		Solid	Solid	Solid	Solid	Solid	Soild
Volatile Organic Compounds (ppm)							
1,2,4-Trimethylbenzene	3.6	**75E**	2.9	**190**	0.063	0.00074J	**90E**
1,3,5-Trimethylbenzene	NA	**29**	**3.4**	**78**	0.019	0.0054J	41
Benzene	0.06	**0.077J**	ND	**0.26J**	ND	ND	**0.10J**
Ethylbenzene	1	**10**	0.39	**30**	0.0058	0.0005J	**14**
Isopropylbenzene	2.3	**2.9**	0.11	**6.6**	0.0016	ND	**3.1**
MTBE (methyl-tert-butyl-ether)	0.93	0.091J	ND	**0.26J**	0.0051	ND	ND
n-Butylbenzene	12	ND	ND	ND	ND	ND	ND
N-Propylbenzene	3.9	**9.1**	0.34	**21**	0.0044	ND	**10**
p-Isopropyltoluene	10	ND	ND	ND	0.00063J	ND	ND
sec-Butylbenzene	11	ND	ND	ND	ND	ND	ND
TBA (tert-butyl alcohol)	NA	ND	ND	ND	0.13	ND	ND
tert-Butylbenzene	5.9	ND	ND	ND	ND	ND	ND
Toluene	0.7	**2.1**	0.2	**14**	0.0034	0.0065J	**7.5**
Total Xylenes	1.6	**61**	**2.43**	**205**	0.051	0.00217J	**96**
Total Confident Conc.	NA	206.27	10.27	619.50	0.3	0.00451	291.70
Total Estimated Conc. (TICs)	NA	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit
2. * - Recovery or RPD exceeds control limits
3. E - Result exceeded calibration range.
4. U - Indicates the analyte was analyzed for but not detected.
5. **Indicates exceedance of the New York Groundwater Quality Criteria**
6. ANR - Analyte Not Run

TABLE 1
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION (Depth)	SBS-5 (10-11')	SBS-6 (7-7.5')	SBS-6 (18-18.5')	SBS-7 (10-10.5')	SBS-8 (12.5-13')	Duplicate	SBS-9 (13-14')
SAMPLE DATE	3/26/2010	3/25/2010	3/25/2010	3/25/2010	3/25/2010	3/26/2010	460-27563-1
LABORATORY ID#	460-11644-5	460-11615-3	460-11615-4	460-11615-5	460-11615-6	460-11644-6	6/8/2011
DILUTION FACTOR	1	1	500	1	50	500	Solid
MATRIX	Solid	Solid	Soild	Solid	Soild	Solid	50
Volatile Organic Compounds (ppm)							
1,2,4-Trimethylbenzene	0.014	0.012	**940E**	0.0037	2.5	**400**	ND
1,3,5-Trimethylbenzene	0.011	0.0054	**370**	0.0013	1.1	**180**	ND
Benzene	ND	ND	**0.58J**	ND	ND	**0.83J**	ND
Ethylbenzene	ND	0.0019	**160**	0.0014	0.32	**66**	ND
Isopropylbenzene	0.0023	0.00073J	**37**	ND	0.086J	**14**	ND
MTBE (methyl-tert-butyl-ether)	0.028	0.097	ND	0.0046	ND	ND	ND
n-Butylbenzene	ND	0.00091J	ND	0.00035J	ND	ND	ANR
N-Propylbenzene	ND	0.014J	**100**	ND	0.3	**45**	ND
p-Isopropyltoluene	ND	ND	**43**	ND	ND	**11**	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND
TBA (tert-butyl alcohol)	0.15	0.067	ND	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ANR
Toluene	0.00068J	0.0015J	**31**	0.0009J	0.13	**38**	ND
Total Xylenes	0.063	0.011	**100**	0.0076	**1.98**	**450**	ND
Total Confident Conc.	0.287	0.12	2,992	0.02214	6.97	1,305	0
Total Estimated Conc. (TICs)	0	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less thar
Quantitation Limit (PQL) and greater than or equal to the M
2. * - Recovery or RPD exceeds control limits
3. E - Result exceeded calibration range.
4. U - Indicates the analyte was analyzed for but not detect
5. **Indicates exceedance of the New York Groundwater**
6. ANR - Analyte Not Run

TABLE 1
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION (Depth)	DUP-2	SBS-9 (19-20')	SBS-10 (10-11')	SBS-11 (16-17')	DUP-1	SBS-11 (19-20')	SBS-12 (10-11')	SBS-12 (16-17')	SBS-13 (12-13')
SAMPLE DATE	460-27563-7	460-27563-2	460-27360-1	460-27360-2	460-27360-8	460-27360-3	460-27360-4	460-27360-5	460-27563-3
LABORATORY ID#	6/8/2011	6/8/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/8/2011
DILUTION FACTOR	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
MATRIX	50	1	1	250	50	1	1	1	100
Volatile Organic Compounds (ppm)									
1,2,4-Trimethylbenzene	**16**	0.25	ND	ND	0.054J	ND	0.20	0.21	**24**
1,3,5-Trimethylbenzene	7.0	0.075	ND	ND	0.046J	ND	0.073	0.084	ND
Benzene	ND	ND	ND	ND	ND	ND	0.001	0.0062	ND
Ethylbenzene	**2.5**	0.028	ND	ND	0.13	ND	0.0095	0.023	0.96
Isopropylbenzene	ND	0.0081	ND	ND	0.035J	ND	0.0067	0.023	ND
MTBE (methyl-tert-butyl-ether)	ND	ND	ND	ND	ND	ND	ND	0.018	ND
n-Butylbenzene	ND	0.019	ND	ND	ND	ND	ND	ND	ND
N-Propylbenzene	2.2	0.026	ND	ND	ND	ND	0.015	0.026	3.3
p-Isopropyltoluene	ND	0.0024	ND	ND	0.033J	ND	0.0027	0.0033	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
TBA (tert-butyl alcohol)	ND	ND	ND	ND	ANR	ND	ANR	ANR	4.6
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.52	0.0057	ND	ND	0.028J	ND	0.00082J	0.0035	ND
Total Xylenes	**14**	0.21	ND	ND	0.18J	ND	0.059	0.11	**7.5**
Total Confident Conc.	42.22	0.6242	0	230.48	12.506	0	0	0.57	35.76
Total Estimated Conc. (TICs)	0	0	0	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less thar
Quantitation Limit (PQL) and greater than or equal to the M
2. * - Recovery or RPD exceeds control limits
3. E - Result exceeded calibration range.
4. U - Indicates the analyte was analyzed for but not detect
5. **Indicates exceedance of the New York Groundwater**
6. ANR - Analyte Not Run

TABLE 1
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION (Depth)	SBS-13 (16-17")	SBS-14 (10-11')	SBS-16 (10-11')	SBS-17 (10-11')	SBS-18 (10-11')	Field Blank	Trip Blank	Field Blank	Trip Blank
SAMPLE DATE	460-27563-4	460-27563-5	460-27360-6	460-27360-7	460-27563-6	460-11615-7	460-11615-8	460-27563-8	460-27563-9
LABORATORY ID#	6/8/2011	6/8/2011	6/6/2011	6/6/2011	6/8/2011	3/25/2010	3/25/2010	6/8/2011	6/7/11
DILUTION FACTOR	Solid	Solid	Solid	Solid	Solid	Aqueous	Aqueous	Aqueous	Aqueous
MATRIX	1	1	1	1	1	1	1	1	1
Volatile Organic Compounds (ppm)									
1,2,4-Trimethylbenzene	0.0012	0.00038J	ND	ND	0.00046J	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.00039J	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.00072J	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (methyl-tert-butyl-ether)	ND	ND	0.004	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
TBA (tert-butyl alcohol)	ND	ND	ANR	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.0012	ND	ND	ND	0.00038J	ND	ND	ND	ND
Total Xylenes	0.0030J	ND	ND	ND	ND	ND	ND	ND	ND
Total Confident Conc.	0.00651	0.00038	0	0	0.00084	0	0	0	0
Total Estimated Conc. (TICs)	0	0	0	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less thar
Quantitation Limit (PQL) and greater than or equal to the M
2. * - Recovery or RPD exceeds control limits
3. E - Result exceeded calibration range.
4. U - Indicates the analyte was analyzed for but not detect
5. **Indicates exceedance of the New York Groundwater**
6. ANR - Analyte Not Run

TABLE 2
Con Edison 3rd Avenue Service Center
South UST Area

Semivolatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION	NYSDEC	SBS-1	SBS-1	SBS-2	SBS-2	SBS-3	SBS-4	SBS-5
SAMPLE DEPTH	Recommended	12.0'-13.0'	14.0'-15.0'	13.0'-14.0'	19.0'-20.0'	10.0'10.5'	11.5'12.0'	10.0'-11.0'
SAMPLE DATE	Soil Cleanup	3/26/2010	3/26/2010	3/26/2010	3/26/2010	3/25/2010	3/25/2010	3/26/2010
LABORATORY ID#	Objective	460-11644-1	460-11644-2	460-11644-3	460-11644-4	460-11615-1	460-11615-2	460-11644-5
DILUTION FACTOR		1	1	1	1	1	1	1
MATRIX		Solid	Solid	Solid	Solid	Solid	Solid	Solid
Semivolatile Organic Compounds (ppm)								
Acenaphthene	50.1	ND	ND	0.073J	ND	ND	0.1J	ND
Acenaphthylene	50.2	ND	ND	ND	ND	ND	ND	ND
Anthracene	50.0	0.094J	ND	0.17J	ND	ND	0.29J	ND
Benzo[a]anthracene	0.224	0.088	ND	0.18	ND	ND	**0.36**	0.06
Benzo[a]pyrene	0.061	0.051	ND	**0.13**	ND	ND	**0.26**	0.057
Benzo[b]fluoranthene	0.220	0.043	ND	0.19	ND	ND	**0.34**	.0062
Benzo[g,h,i]perylene	50.0	ND	ND	0.077J	ND	ND	0.11J	ND
Benzo[k]fluoranthene	0.220	ND	ND	0.08	ND	ND	0.10	0.030J
Chrysene	0.4	ND	ND	ND	ND	ND	0.35J	ND
Dibenz(a,h)anthracene	0.0143	**0.083J**	ND	**0.19J**	ND	ND	**0.027J**	**0.066J**
Fluoranthene	50.0	ND	ND	0.019J	ND	ND	1.1	0.012J
Fluorene	50.0	0.25J	ND	0.57	ND	ND	0.32J	ND
Indeno[1,2,3-cd]pyrene	3.2	0.098J	ND	0.18J	ND	ND	0.12	ND
Naphthalene	13.0	0.019J	ND	0.071	0.094J	ND	7.2	0.029J
Phenanthrene	50.0	0.35J	ND	0.73	ND	ND	1.2	0.13J
Pyrene	50.0	0.14J	ND	0.35	ND	ND	0.61	0.099J
Total Confident Conc.		8.72	0	13.304	0.19	0	12.49	0.713
Total Estimated Conc. (TICs)		0	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit

2. J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

3. U - Indicates the analyte was analyzed for but not detected.

4. **Indicates exceedance of the New York Groundwater Quality Criteria**

TABLE 2
Con Edison 3rd Avenue Service Center
South UST Area

Semivolatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION	SBS-6	SBS-6	SBS-7	SBS-8	Duplicate	Field Blank
SAMPLE DEPTH	7.0'-7.5'	18.0'18.5'	10.0'-10.5'	12.5'13.0'	N/A	N/A
SAMPLE DATE	3/25/2010	3/25/2010	3/25/2010	3/25/2010	3/26/2010	3/25/2010
LABORATORY ID#	460-11615-3	460-11615-4	460-11615-5	460-11615-6	460-11644-6	460-11615-7
DILUTION FACTOR	1	10	2	1	1	1
MATRIX	Solid	Solid	Solid	Solid	Solid	Aqueous
Semivolatile Organic Compounds (ppm)						
Acenaphthene	ND	4.5	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Anthracene	ND	6.5	ND	ND	0.23J	ND
Benzo[a]anthracene	ND	**5.6**	0.097	0.046	**0.25**	ND
Benzo[a]pyrene	**0.080**	**5.7**	**0.10**	0.032J	**0.15**	ND
Benzo[b]fluoranthene	0.11	**6.0**	0.11	0.039	0.18	ND
Benzo[g,h,i]perylene	ND	4.8	0.11J	ND	0.080J	ND
Benzo[k]fluoranthene	0.036J	**2.7**	ND	ND	0.1	ND
Chrysene	0.11J	**6.9**	0.11J	ND	ND	ND
Dibenz(a,h)anthracene	0.014	**0.57**	ND	ND	**0.26J**	ND
Fluoranthene	0.17J	18	0.16J	0.12J	ND	ND
Fluorene	ND	4.7	ND	ND	0.72	ND
Indeno[1,2,3-cd]pyrene	0.065	**4.0**	0.096	ND	0.17J	ND
Naphthalene	ND	**42**	ND	ND	0.078	ND
Phenanthrene	0.13J	22	0.16J	0.14J	0.92	ND
Pyrene	0.13J	11	0.14J	0.083J	0.42	ND
Total Confident Conc.	0.938	144.97	1.083	0.46	6.21	0
Total Estimated Conc. (TICs)	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less than
2. J - Result is less than the RL but greater than or equal to
3. U - Indicates the analyte was analyzed for but not detecte
4. **Indicates exceedance of the New York Groundwater C**

TABLE 5
Groundwater Analytical Results
Volatile Organic Compounds
June, 2011

Con Edison 3rd Avenue South UST Area
Brooklyn, NY

Sample ID	*TOGS Ambient Water Quality Standards*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S
Laboratory Sample No.		460-28383-4	460-28383-6	460-28382-1	460-28382-2	460-28383-2	460-28382-3	460-28383-1
Sample Date		06/28/11	06/28/11	06/29/11	06/29/11	06/28/11	06/29/11	06/28/11
Matrix		Water	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	1	1	1	1	1
Volatile Organic Compounds (ppb)								
Benzene	***0.7***	1.8	ND	ND	**23**	ND	ND	ND
Toluene	***5***	0.67J	0.31J	ND	**68**	ND	ND	0.11J
Ethylbenzene	***5***	**8.7**	ND	ND	**7.1**	ND	ND	ND
Isopropylbenzene	***5***	**6.8**	ND	0.66J	**470**	ND	ND	ND
1,2,4-Trimethylbenzene	***5***	**8.5**	ND	0.36J	**220**	ND	ND	ND
1,3,5-Trimethylbenzene	***5***	0.83J	ND	2.9	**38**	ND	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	***10***	**51**	3.5	ND	ND	ND	ND	0.25J
n-Butyl-benzene	***5***	0.61J	ND	ND	2.3	ND	ND	ND
p-Isopropyltoluene	***5***	ND	ND	ND	**11**	ND	ND	ND
N-Propylbenzene	***5***	**8.7**	ND	ND	1.3	ND	ND	ND
TBA	***5***	ANR	ANR	**5.6J**	**110**	ANR	ND	ANR
sec-Butyl-benzene	***5***	0.61J	ND	ND	0.31	ND	ND	ND
Tert-Butyl-benzene	***5***	ND	ND	0.16J	4.9	ND	ND	ND
Total Xylenes	***5***	**5.4**	ND	0.74J	**850**	ND	ND	ND
Total Confident Conc.		93.62	3.81	10.42	1,805.91	0	0	0.36
Total Estimated Conc. (TICs)		0	0	0	0	0	0	0

Notes:
BOLD: The concentration exceeds the TOGS AWQS
ND: Indicates the analyte was analyzed for but not detected.
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ppb: Parts Per Billion
ANR: Analyte Not Run

TABLE 5
Groundwater Analytical Results
Volatile Organic Compounds
June, 2011

Con Edison 3rd Avenue South UST Area
Brooklyn, NY

Sample ID	***TOGS Ambient Water Quality Standards***	MW-21S	MW-22S	MW-23S	MW-24S	DUP	FB	TB
Laboratory Sample No.		460-28382-4	460-28382-5	460-28383-5	460-28383-3	460-28383-8	460-28383-6	460-28383-7
Sample Date		06/29/11	06/29/11	06/28/11	06/28/11	06/29/11	06/29/11	06/29/11
Matrix		Water	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	1	1	1	1	1
Volatile Organic Compounds (ppb)								
Benzene	***0.7***	ND	0.38J	0.21J	ND	**460**	ND	ND
Toluene	***5***	ND	0.38J	0.25J	ND	**230**	ND	ND
Ethylbenzene	***5***	ND	2.1	**6.1**	ND	**17**	ND	ND
Isopropylbenzene	***5***	ND	0.32J	4.2	ND	**7.3**	ND	ND
1,2,4-Trimethylbenzene	***5***	ND	ND	4.5	ND	**47**	ND	ND
1,3,5-Trimethylbenzene	***5***	0.35	**32**	3.6	ND	2.0	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	***10***	ND	1.0	**47**	**67**	**11**	ND	ND
n-Butyl-benzene	***5***	ND	ND	ND	ND	2.6	ND	ND
p-Isopropyltoluene	***5***	ND	0.81J	1.4	ND	1.5	ND	ND
N-Propylbenzene	***5***	ND	ND	1.8	ND	**140**	ND	ND
TBA	***5***	ND	**620**	ANR	ANR	ANR	ND	ND
sec-Butyl-benzene	***5***	ND	ND	0.2J	ND	2.0	ND	ND
Tert-Butyl-benzene	***5***	ND	0.18J	ND	ND	4.6	ND	ND
Total Xylenes	***5***	ND	1.4J	2.3J	ND	**59**	ND	ND
Total Confident Conc.		0.35	657.84	71.56	67	810	ND	ND
Total Estimated Conc. (TICs)		0	0	0	0	1,790	0	0

Notes:
BOLD: The concentration exceeds the TOGS AWQS
ND: Indicates the analyte was analyzed for but not detected.
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ppb: Parts Per Billion
ANR: Analyte Not Run

TABLE 1
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION (Depth)	NY CP-51 Soil Cleanup Objectives	SBS-1 (12-13')	SBS-1 (14-15')	SBS-2 (13-14')	SBS-2 (19-20')	SBS-3 (10-10.5')	SBS-4 (11.5-12')
SAMPLE DATE		3/26/2010	3/26/2010	3/26/2010	3/26/2010	3/25/2010	3/25/2010
LABORATORY ID#		460-11644-1	460-11644-2	460-11644-3	460-11644-4	460-11615-1	460-11615-2
DILUTION FACTOR		50	50	200	1	1	50
MATRIX		Solid	Solid	Solid	Solid	Solid	Soild
Volatile Organic Compounds (ppm)							
1,2,4-Trimethylbenzene	3.6	**75E**	2.9	**190**	0.063	0.00074J	**90E**
1,3,5-Trimethylbenzene	NA	**29**	**3.4**	**78**	0.019	0.0054J	41
Benzene	0.06	**0.077J**	ND	**0.26J**	ND	ND	**0.10J**
Ethylbenzene	1	**10**	0.39	**30**	0.0058	0.0005J	**14**
Isopropylbenzene	2.3	**2.9**	0.11	**6.6**	0.0016	ND	**3.1**
MTBE (methyl-tert-butyl-ether)	0.93	0.091J	ND	**0.26J**	0.0051	ND	ND
n-Butylbenzene	12	ND	ND	ND	ND	ND	ND
N-Propylbenzene	3.9	**9.1**	0.34	**21**	0.0044	ND	**10**
p-Isopropyltoluene	10	ND	ND	ND	0.00063J	ND	ND
sec-Butylbenzene	11	ND	ND	ND	ND	ND	ND
TBA (tert-butyl alcohol)	NA	ND	ND	ND	0.13	ND	ND
tert-Butylbenzene	5.9	ND	ND	ND	ND	ND	ND
Toluene	0.7	**2.1**	0.2	**14**	0.0034	0.0065J	**7.5**
Total Xylenes	1.6	**61**	**2.43**	**205**	0.051	0.00217J	**96**
Total Confident Conc.	NA	206.27	10.27	619.50	0.3	0.00451	291.70
Total Estimated Conc. (TICs)	NA	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit
2. * - Recovery or RPD exceeds control limits
3. E - Result exceeded calibration range.
4. U - Indicates the analyte was analyzed for but not detected.
5. **Indicates exceedance of the New York Groundwater Quality Criteria**
6. ANR - Analyte Not Run

TABLE 1
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION (Depth)	SBS-5 (10-11')	SBS-6 (7-7.5')	SBS-6 (18-18.5')	SBS-7 (10-10.5')	SBS-8 (12.5-13')	Duplicate	SBS-9 (13-14')
SAMPLE DATE	3/26/2010	3/25/2010	3/25/2010	3/25/2010	3/25/2010	3/26/2010	460-27563-1
LABORATORY ID#	460-11644-5	460-11615-3	460-11615-4	460-11615-5	460-11615-6	460-11644-6	6/8/2011
DILUTION FACTOR	1	1	500	1	50	500	Solid
MATRIX	Solid	Solid	Soild	Solid	Soild	Solid	50
Volatile Organic Compounds (ppm)							
1,2,4-Trimethylbenzene	0.014	0.012	**940E**	0.0037	2.5	**400**	ND
1,3,5-Trimethylbenzene	0.011	0.0054	**370**	0.0013	1.1	**180**	ND
Benzene	ND	ND	**0.58J**	ND	ND	**0.83J**	ND
Ethylbenzene	ND	0.0019	**160**	0.0014	0.32	**66**	ND
Isopropylbenzene	0.0023	0.00073J	**37**	ND	0.086J	**14**	ND
MTBE (methyl-tert-butyl-ether)	0.028	0.097	ND	0.0046	ND	ND	ND
n-Butylbenzene	ND	0.00091J	ND	0.00035J	ND	ND	ANR
N-Propylbenzene	ND	0.014J	**100**	ND	0.3	**45**	ND
p-Isopropyltoluene	ND	ND	**43**	ND	ND	**11**	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND
TBA (tert-butyl alcohol)	0.15	0.067	ND	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ANR
Toluene	0.00068J	0.0015J	**31**	0.0009J	0.13	**38**	ND
Total Xylenes	0.063	0.011	**100**	0.0076	**1.98**	**450**	ND
Total Confident Conc.	0.287	0.12	2,992	0.02214	6.97	1,305	0
Total Estimated Conc. (TICs)	0	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less thar
Quantitation Limit (PQL) and greater than or equal to the M
2. * - Recovery or RPD exceeds control limits
3. E - Result exceeded calibration range.
4. U - Indicates the analyte was analyzed for but not detect
5. **Indicates exceedance of the New York Groundwater**
6. ANR - Analyte Not Run

TABLE 1
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION (Depth)	DUP-2	SBS-9 (19-20')	SBS-10 (10-11')	SBS-11 (16-17')	DUP-1	SBS-11 (19-20')	SBS-12 (10-11')	SBS-12 (16-17')	SBS-13 (12-13')
SAMPLE DATE	460-27563-7	460-27563-2	460-27360-1	460-27360-2	460-27360-8	460-27360-3	460-27360-4	460-27360-5	460-27563-3
LABORATORY ID#	6/8/2011	6/8/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/8/2011
DILUTION FACTOR	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
MATRIX	50	1	1	250	50	1	1	1	100
Volatile Organic Compounds (ppm)									
1,2,4-Trimethylbenzene	**16**	0.25	ND	ND	0.054J	ND	0.20	0.21	**24**
1,3,5-Trimethylbenzene	7.0	0.075	ND	ND	0.046J	ND	0.073	0.084	ND
Benzene	ND	ND	ND	ND	ND	ND	0.001	0.0062	ND
Ethylbenzene	**2.5**	0.028	ND	ND	0.13	ND	0.0095	0.023	0.96
Isopropylbenzene	ND	0.0081	ND	ND	0.035J	ND	0.0067	0.023	ND
MTBE (methyl-tert-butyl-ether)	ND	ND	ND	ND	ND	ND	ND	0.018	ND
n-Butylbenzene	ND	0.019	ND	ND	ND	ND	ND	ND	ND
N-Propylbenzene	2.2	0.026	ND	ND	ND	ND	0.015	0.026	3.3
p-Isopropyltoluene	ND	0.0024	ND	ND	0.033J	ND	0.0027	0.0033	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
TBA (tert-butyl alcohol)	ND	ND	ND	ND	ANR	ND	ANR	ANR	4.6
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.52	0.0057	ND	ND	0.028J	ND	0.00082J	0.0035	ND
Total Xylenes	**14**	0.21	ND	ND	0.18J	ND	0.059	0.11	**7.5**
Total Confident Conc.	42.22	0.6242	0	230.48	12.506	0	0	0.57	35.76
Total Estimated Conc. (TICs)	0	0	0	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less thar
Quantitation Limit (PQL) and greater than or equal to the M
2. * - Recovery or RPD exceeds control limits
3. E - Result exceeded calibration range.
4. U - Indicates the analyte was analyzed for but not detect
5. **Indicates exceedance of the New York Groundwater**
6. ANR - Analyte Not Run

TABLE 1
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION (Depth)	SBS-13 (16-17")	SBS-14 (10-11')	SBS-16 (10-11')	SBS-17 (10-11')	SBS-18 (10-11')	Field Blank	Trip Blank	Field Blank	Trip Blank
SAMPLE DATE	460-27563-4	460-27563-5	460-27360-6	460-27360-7	460-27563-6	460-11615-7	460-11615-8	460-27563-8	460-27563-9
LABORATORY ID#	6/8/2011	6/8/2011	6/6/2011	6/6/2011	6/8/2011	3/25/2010	3/25/2010	6/8/2011	6/7/11
DILUTION FACTOR	Solid	Solid	Solid	Solid	Solid	Aqueous	Aqueous	Aqueous	Aqueous
MATRIX	1	1	1	1	1	1	1	1	1
Volatile Organic Compounds (ppm)									
1,2,4-Trimethylbenzene	0.0012	0.00038J	ND	ND	0.00046J	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.00039J	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.00072J	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (methyl-tert-butyl-ether)	ND	ND	0.004	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
TBA (tert-butyl alcohol)	ND	ND	ANR	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.0012	ND	ND	ND	0.00038J	ND	ND	ND	ND
Total Xylenes	0.0030J	ND	ND	ND	ND	ND	ND	ND	ND
Total Confident Conc.	0.00651	0.00038	0	0	0.00084	0	0	0	0
Total Estimated Conc. (TICs)	0	0	0	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less thar
Quantitation Limit (PQL) and greater than or equal to the M
2. * - Recovery or RPD exceeds control limits
3. E - Result exceeded calibration range.
4. U - Indicates the analyte was analyzed for but not detect
5. **Indicates exceedance of the New York Groundwater**
6. ANR - Analyte Not Run

TABLE 2
Con Edison 3rd Avenue Service Center
South UST Area

Semivolatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION	NYSDEC	SBS-1	SBS-1	SBS-2	SBS-2	SBS-3	SBS-4	SBS-5
SAMPLE DEPTH	Recommended	12.0'-13.0'	14.0'-15.0'	13.0'-14.0'	19.0'-20.0'	10.0'10.5'	11.5'12.0'	10.0'-11.0'
SAMPLE DATE	Soil Cleanup	3/26/2010	3/26/2010	3/26/2010	3/26/2010	3/25/2010	3/25/2010	3/26/2010
LABORATORY ID#	Objective	460-11644-1	460-11644-2	460-11644-3	460-11644-4	460-11615-1	460-11615-2	460-11644-5
DILUTION FACTOR		1	1	1	1	1	1	1
MATRIX		Solid	Solid	Solid	Solid	Solid	Solid	Solid
Semivolatile Organic Compounds (ppm)								
Acenaphthene	50.1	ND	ND	0.073J	ND	ND	0.1J	ND
Acenaphthylene	50.2	ND	ND	ND	ND	ND	ND	ND
Anthracene	50.0	0.094J	ND	0.17J	ND	ND	0.29J	ND
Benzo[a]anthracene	0.224	0.088	ND	0.18	ND	ND	**0.36**	0.06
Benzo[a]pyrene	0.061	0.051	ND	**0.13**	ND	ND	**0.26**	0.057
Benzo[b]fluoranthene	0.220	0.043	ND	0.19	ND	ND	**0.34**	.0062
Benzo[g,h,i]perylene	50.0	ND	ND	0.077J	ND	ND	0.11J	ND
Benzo[k]fluoranthene	0.220	ND	ND	0.08	ND	ND	0.10	0.030J
Chrysene	0.4	ND	ND	ND	ND	ND	0.35J	ND
Dibenz(a,h)anthracene	0.0143	**0.083J**	ND	**0.19J**	ND	ND	**0.027J**	**0.066J**
Fluoranthene	50.0	ND	ND	0.019J	ND	ND	1.1	0.012J
Fluorene	50.0	0.25J	ND	0.57	ND	ND	0.32J	ND
Indeno[1,2,3-cd]pyrene	3.2	0.098J	ND	0.18J	ND	ND	0.12	ND
Naphthalene	13.0	0.019J	ND	0.071	0.094J	ND	7.2	0.029J
Phenanthrene	50.0	0.35J	ND	0.73	ND	ND	1.2	0.13J
Pyrene	50.0	0.14J	ND	0.35	ND	ND	0.61	0.099J
Total Confident Conc.		8.72	0	13.304	0.19	0	12.49	0.713
Total Estimated Conc. (TICs)		0	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit

2. J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

3. U - Indicates the analyte was analyzed for but not detected.

4. **Indicates exceedance of the New York Groundwater Quality Criteria**

TABLE 2
Con Edison 3rd Avenue Service Center
South UST Area

Semivolatile Organic Compounds Soil Results
March 2010/June 2011

SAMPLE LOCATION	SBS-6	SBS-6	SBS-7	SBS-8	Duplicate	Field Blank
SAMPLE DEPTH	7.0'-7.5'	18.0'18.5'	10.0'-10.5'	12.5'13.0'	N/A	N/A
SAMPLE DATE	3/25/2010	3/25/2010	3/25/2010	3/25/2010	3/26/2010	3/25/2010
LABORATORY ID#	460-11615-3	460-11615-4	460-11615-5	460-11615-6	460-11644-6	460-11615-7
DILUTION FACTOR	1	10	2	1	1	1
MATRIX	Solid	Solid	Solid	Solid	Solid	Aqueous
Semivolatile Organic Compounds (ppm)						
Acenaphthene	ND	4.5	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Anthracene	ND	6.5	ND	ND	0.23J	ND
Benzo[a]anthracene	ND	**5.6**	0.097	0.046	**0.25**	ND
Benzo[a]pyrene	**0.080**	**5.7**	**0.10**	0.032J	**0.15**	ND
Benzo[b]fluoranthene	0.11	**6.0**	0.11	0.039	0.18	ND
Benzo[g,h,i]perylene	ND	4.8	0.11J	ND	0.080J	ND
Benzo[k]fluoranthene	0.036J	**2.7**	ND	ND	0.1	ND
Chrysene	0.11J	**6.9**	0.11J	ND	ND	ND
Dibenz(a,h)anthracene	0.014	**0.57**	ND	ND	**0.26J**	ND
Fluoranthene	0.17J	18	0.16J	0.12J	ND	ND
Fluorene	ND	4.7	ND	ND	0.72	ND
Indeno[1,2,3-cd]pyrene	0.065	**4.0**	0.096	ND	0.17J	ND
Naphthalene	ND	**42**	ND	ND	0.078	ND
Phenanthrene	0.13J	22	0.16J	0.14J	0.92	ND
Pyrene	0.13J	11	0.14J	0.083J	0.42	ND
Total Confident Conc.	0.938	144.97	1.083	0.46	6.21	0
Total Estimated Conc. (TICs)	0	0	0	0	0	0

Notes:

1. J - Estimated value. Analyte detected at a level less than
2. J - Result is less than the RL but greater than or equal to
3. U - Indicates the analyte was analyzed for but not detecte
4. **Indicates exceedance of the New York Groundwater C**

TABLE 5
Groundwater Analytical Results
Volatile Organic Compounds
June, 2011

Con Edison 3rd Avenue South UST Area
Brooklyn, NY

Sample ID	*TOGS Ambient Water Quality Standards*	MW-11S	MW-12S	MW-13S	MW-14S	MW-18S	MW-19S	MW-20S
Laboratory Sample No.		460-28383-4	460-28383-6	460-28382-1	460-28382-2	460-28383-2	460-28382-3	460-28383-1
Sample Date		06/28/11	06/28/11	06/29/11	06/29/11	06/28/11	06/29/11	06/28/11
Matrix		Water	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	1	1	1	1	1
Volatile Organic Compounds (ppb)								
Benzene	***0.7***	1.8	ND	ND	**23**	ND	ND	ND
Toluene	***5***	0.67J	0.31J	ND	**68**	ND	ND	0.11J
Ethylbenzene	***5***	**8.7**	ND	ND	**7.1**	ND	ND	ND
Isopropylbenzene	***5***	**6.8**	ND	0.66J	**470**	ND	ND	ND
1,2,4-Trimethylbenzene	***5***	**8.5**	ND	0.36J	**220**	ND	ND	ND
1,3,5-Trimethylbenzene	***5***	0.83J	ND	2.9	**38**	ND	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	***10***	**51**	3.5	ND	ND	ND	ND	0.25J
n-Butyl-benzene	***5***	0.61J	ND	ND	2.3	ND	ND	ND
p-Isopropyltoluene	***5***	ND	ND	ND	**11**	ND	ND	ND
N-Propylbenzene	***5***	**8.7**	ND	ND	1.3	ND	ND	ND
TBA	***5***	ANR	ANR	**5.6J**	**110**	ANR	ND	ANR
sec-Butyl-benzene	***5***	0.61J	ND	ND	0.31	ND	ND	ND
Tert-Butyl-benzene	***5***	ND	ND	0.16J	4.9	ND	ND	ND
Total Xylenes	***5***	**5.4**	ND	0.74J	**850**	ND	ND	ND
Total Confident Conc.		93.62	3.81	10.42	1,805.91	0	0	0.36
Total Estimated Conc. (TICs)		0	0	0	0	0	0	0

Notes:
BOLD: The concentration exceeds the TOGS AWQS
ND: Indicates the analyte was analyzed for but not detected.
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ppb: Parts Per Billion
ANR: Analyte Not Run

TABLE 5
Groundwater Analytical Results
Volatile Organic Compounds
June, 2011

Con Edison 3rd Avenue South UST Area
Brooklyn, NY

Sample ID	***TOGS Ambient Water Quality Standards***	MW-21S	MW-22S	MW-23S	MW-24S	DUP	FB	TB
Laboratory Sample No.		460-28382-4	460-28382-5	460-28383-5	460-28383-3	460-28383-8	460-28383-6	460-28383-7
Sample Date		06/29/11	06/29/11	06/28/11	06/28/11	06/29/11	06/29/11	06/29/11
Matrix		Water	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	1	1	1	1	1
Volatile Organic Compounds (ppb)								
Benzene	***0.7***	ND	0.38J	0.21J	ND	**460**	ND	ND
Toluene	***5***	ND	0.38J	0.25J	ND	**230**	ND	ND
Ethylbenzene	***5***	ND	2.1	**6.1**	ND	**17**	ND	ND
Isopropylbenzene	***5***	ND	0.32J	4.2	ND	**7.3**	ND	ND
1,2,4-Trimethylbenzene	***5***	ND	ND	4.5	ND	**47**	ND	ND
1,3,5-Trimethylbenzene	***5***	0.35	**32**	3.6	ND	2.0	ND	ND
Methyl-Tert-Butyl-Ether (MTBE)	***10***	ND	1.0	**47**	**67**	**11**	ND	ND
n-Butyl-benzene	***5***	ND	ND	ND	ND	2.6	ND	ND
p-Isopropyltoluene	***5***	ND	0.81J	1.4	ND	1.5	ND	ND
N-Propylbenzene	***5***	ND	ND	1.8	ND	**140**	ND	ND
TBA	***5***	ND	**620**	ANR	ANR	ANR	ND	ND
sec-Butyl-benzene	***5***	ND	ND	0.2J	ND	2.0	ND	ND
Tert-Butyl-benzene	***5***	ND	0.18J	ND	ND	4.6	ND	ND
Total Xylenes	***5***	ND	1.4J	2.3J	ND	**59**	ND	ND
Total Confident Conc.		0.35	657.84	71.56	67	810	ND	ND
Total Estimated Conc. (TICs)		0	0	0	0	1,790	0	0

Notes:
BOLD: The concentration exceeds the TOGS AWQS
ND: Indicates the analyte was analyzed for but not detected.
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ppb: Parts Per Billion
ANR: Analyte Not Run

TABLE 2
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011/Oct 2012

SAMPLE LOCATION SAMPLE DATE SAMPLE LOCATION (DEPTH) LABORATORY ID# DILUTION FACTOR MATRIX	CP-51 Soil Cleanup Levels for Fuel Oil Contaminated Soil	CP-51 Soil Cleanup Levels for Gasoline Contaminated Soils	SBS-01 3/26/2010 SBS-1(12-13) 460-11644-1 50 Solid	SBS-01 3/26/2010 SBS-1(14-15) 460-11644-2 50 Solid	SBS-02 3/26/2010 SBS-2(13-14) 460-11644-3 200 Solid	SBS-02 3/26/2010 DUPLICATE 460-11644-6 500 Solid	SBS-02 3/26/2010 SBS-2(19-20) 460-11644-4 1 Solid	SBS-03 3/25/2010 SBS-3(10.0-10.5) 460-11615-1 1 Solid	SBS-04 3/25/2010 SBS-4(11.5-12.0) 460-11615-2 50 Solid	SBS-05 3/26/2010 SBS-5(10-11) 460-11644-5 1 Solid	SBS-06 3/25/2010 SBS-6(7.0-7.5) 460-11615-3 1 Solid	SBS-06 3/25/2010 SBS-6(18.0-18.5) 460-11615-4 500 Solid	SBS-07 3/25/2010 SBS-7(10.0-10.5) 460-11615-5 1 Solid
Volatile Organic Compounds (ppm)													
1,2,4-Trimethylbenzene	3.6	3.6	**75 J**	**2.9**	**190**	**400**	**0.063**	**0.00074 J**	**90 J**	**0.014**	**0.012**	**940 J**	**0.0037**
1,3,5-Trimethylbenzene	8.4	8.4	**29**	**3.4**	**78**	**180**	**0.019**	**0.00045 J**	**41**	**0.011**	**0.0054**	**370**	**0.0013**
2-Butanone			ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
4-Isopropyltoluene	10	10	<0.11 U	<0.11 U	<0.45 U	**11**	**0.00063 J**	<0.0011 U	<0.12 U	<0.0011 U	<0.0019 U	**43**	<0.0011 U
Acetone			ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Benzene	0.06	0.06	**0.077 J**	<0.11 U	**0.26 J**	**0.83 J**	<0.0012 U	<0.0011 U	**0.10 J**	<0.0011 U	<0.0019 U	**0.58 J**	<0.0011 U
Carbon tetrachloride			ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chloroform			ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Ethylbenzene	1	1	**10**	**0.39**	**30**	**66**	**0.0058**	**0.0005 J**	**14**	<0.0011 U	**0.0019**	**160**	**0.0014**
Isopropylbenzene	2.3	2.3	**2.9**	**0.11**	**6.6**	**14**	**0.0016**	<0.0011 U	**3.1**	**0.0023**	**0.00073 J**	**37**	<0.0011 U
m&p-Xylene	0.26		**42**	**1.7**	**140**	**310**	**0.031**	**0.0015 J**	**64**	**0.013**	**0.007**	**690**	**0.0051**
Methyl tert-butyl ether		0.93	**0.091 J**	<0.11 U	**0.29 J**	<1.1 U	**0.0015**	<0.0011 U	<0.12 U	**0.028**	**0.0097**	<1 U	**0.0046**
Methylene chloride			ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Naphthalene	12	12	**17**	**0.5**	**74**	**100**	**0.02**	<0.0011 U	**30**	**0.018**	<0.0019 U	**310**	**0.0017**
n-Butylbenzene	12	12	0.11 U	0.11 U	<0.45 U	<1.1 U	<0.0012 U	<0.0011 U	<0.12 U	<0.0011 U	**0.00091 J**	<1 U	**0.00035 J**
n-Propylbenzene	3.9	3.9	**9.1**	**0.34**	**21**	**45**	**0.0044**	<0.0011 U	**10**	<0.0011 U	**0.0014 J**	**100**	**0.00059 J**
o-Xylene	0.26		**19**	**0.73**	**65**	**140**	**0.02**	**0.00067 J**	**32**	**0.05**	**0.0041**	**310**	**0.0025**
sec-Butylbenzene	11	11	<0.11 U	<0.11 U	<0.45 U	<1.1 U	<0.0012 U	<0.0011 U	<0.12 U	<0.0011 U	<0.0019 U	<1 U	<0.0011 U
tert-Butanol (TBA)			<2.2 U	<2.2 U	<9 U	<23 U	**0.13**	<0.022 U	<2.5 U	**0.15**	**0.067**	<20 U	<0.023 U
Toluene	0.7	0.7	**2.1**	**0.2**	**14**	**38**	**0.0034**	**0.00065 J**	**7.5**	**0.00068 J**	**0.0015 J**	**31**	**0.0009 J**
Total Confident Conc.			**206.268**	**10.27**	**619.15**	**1304.83**	**0.30033**	**0.00451**	**291.7**	**0.28698**	**0.11164**	**2991.58**	**0.02214**
Total Estimated Conc. (TICs)			**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Xylenes (total)	0.26	0.26	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Total Organic Carbon (ppm)													
Total Organic Carbon			ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit
2. U - Indicates the analyte was analyzed for but not detected.
3. UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.
4. **Indicates exceedance of NYSDEC CP-51 Soil Cleanup Levels**
5. ANR - Analyte Not Run
6. sec-Butylbenzene and tert-butylbenzene were included in First Environment summary tables but are not included on this table as they were either not analyzed or not detected in any sample.

TABLE 2
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011/Oct 2012

SAMPLE LOCATION	SBS-08	SBS-09	SBS-09	SBS-09	SBS-10	SBS-11	SBS-11	SBS-11	SBS-12	SBS-12	SBS-13	SBS-13	SBS-14
SAMPLE DATE	3/25/2010	6/8/2011	6/8/2011	6/8/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/8/2011	6/8/2011	6/8/2011
SAMPLE LOCATION (DEPTH)	SBS-8(12.5-13.0)	SBS-9(13-14)	DUP-2	SBS-9(19-20)	SBS-10(10-11)	SBS-11(16-17)	DUP-1	SBS-11(19-20)	SBS-12(10-11)	SBS-12(16-17)	SBS-13(12-13)	SBS-13(16-17)	SBS-14(10-11)
LABORATORY ID#	460-11615-6	460-27563-1	460-27563-7	460-27563-2	460-27360-1	460-27360-2	460-27360-8	460-27360-3	460-27360-4	460-27360-5	460-27563-3	460-27563-4	460-27563-5
DILUTION FACTOR	50	50	50	1	1	250	50	1	1	1	100	1	1
MATRIX	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Volatile Organic Compounds (ppm)													
1,2,4-Trimethylbenzene	**2.5**	ANR	ANR	**0.25**	<0.0011 U	<0.69 U	**0.054 J**	<0.0012 U	**0.20**	**0.21**	ANR	**0.0012**	**0.00038 J**
1,3,5-Trimethylbenzene	**1.1**	ANR	ANR	**0.075**	<0.0011 U	<0.69 U	**0.046 J**	<0.0012 U	**0.073**	**0.084**	ANR	**0.00039 J**	<0.0011 U
2-Butanone	ANR	<1.2 U	<1.1 U	ANR	ANR	ANR	ANR	ANR	ANR	ANR	<2.3 U	ANR	ANR
4-Isopropyltoluene	<0.11 U	ANR	ANR	ANR	<0.0011 U	**0.48 J**	**0.033 J**	<0.0012 U	**0.0027**	**0.0033**	ANR	ANR	ANR
Acetone	ANR	<1.2 U	<1.1 U	ANR	ANR	ANR	ANR	ANR	ANR	ANR	<2.3 U	ANR	ANR
Benzene	<0.11 U	<0.12 U	<0.11 U	<0.0013 U	<0.0011 U	<0.69 U	<0.11 U	<0.0012 U	<0.001 U	**0.0062**	<0.23 U	<0.0011 U	<0.0011 U
Carbon tetrachloride	ANR	<0.12 U	<0.11 U	ANR	ANR	ANR	ANR	ANR	ANR	ANR	**0.46**	ANR	ANR
Chloroform	ANR	<0.12 U	<0.11 U	ANR	ANR	ANR	ANR	ANR	ANR	ANR	**0.32**	ANR	ANR
Ethylbenzene	**0.32**	**3.2**	**2.5**	**0.028**	<0.0011 U	<0.69 U	**0.13**	<0.0012 U	**0.0095**	**0.023**	**0.96**	**0.00072 J**	<0.0011 U
Isopropylbenzene	**0.086 J**	ANR	ANR	**0.0081**	<0.0011 U	<0.69 U	**0.035 J**	<0.0012 U	**0.0067**	**0.023**	ANR	<0.0011 U	<0.0011 U
m&p-Xylene	**1.4**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Methyl tert-butyl ether	<0.11 U	ANR	ANR	<0.0013 U	<0.0011 U	<0.69 U	<0.11 U	<0.0012 U	**0.001**	**0.018**	ANR	<0.0011 U	<0.0011 U
Methylene chloride	ANR	**0.066 J**	<0.11 U	ANR	ANR	ANR	ANR	ANR	ANR	ANR	<0.23 U	ANR	ANR
Naphthalene	**0.57**	ANR	ANR	**0.064**	<0.0011 U	**230**	**12**	**0.092**	**0.12**	**0.063**	ANR	0.0011 U	**0.0008 J**
n-Butylbenzene	<0.11 U	ANR	ANR	**0.019**	<0.0011 U	<0.69 U	<0.11 U	<0.0012 U	<0.001 U	<0.001 U	ANR	<0.0011 U	<0.0011 U
n-Propylbenzene	**0.3**	ANR	ANR	**0.026**	<0.0011 U	<0.69 U	<0.11 U	<0.0012 U	**0.015**	**0.026**	ANR	<0.0011 U	<0.0011 U
o-Xylene	**0.58**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
sec-Butylbenzene	<0.11 U	ANR	ANR	<0.0013 U	<0.0011 U	<0.69 U	<0.11 U	<0.0012 U	<0.001 U	<0.001 U	ANR	<0.0011 U	<0.0011 U
tert-Butanol (TBA)	<2.2 U	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Toluene	**0.13**	**0.62**	**0.52**	**0.0057**	<0.0011 U	<0.69 U	**0.028 J**	<0.0012 U	**0.00082 J**	**0.0035**	<0.23 U	**0.0012**	<0.0011 U
Total Confident Conc.	**6.986**	**22.886**	**17.02**	**0.6858**	**0**	**230.48**	**12.506**	**0.092**	**0.48772**	**0.57**	**9.24**	**0.00651**	**0.00118**
Total Estimated Conc. (TICs)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Xylenes (total)	ANR	**19**	**14**	**0.21**	<0.0033 U	<2.1 U	**0.18 J**	<0.0035 U	**0.059**	**0.11**	**7.5**	**0.003 J**	<0.0034 U
Total Organic Carbon (ppm)													
Total Organic Carbon	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit
2. U - Indicates the analyte was analyzed for but not detected.
3. UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.
4. **Indicates exceedance of NYSDEC CP-51 Soil Cleanup Levels**
5. ANR - Analyte Not Run
6. sec-Butylbenzene and tert-butylbenzene were included in First Environment summary tables but are not included on this table as they were either not analyzed or not detected in any sample.

TABLE 2
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011/Oct 2012

SAMPLE LOCATION	SBS-16	SBS-17	SBS-18	D-1	D-2	D-3	D-3	D-4	D-4	D-5	D-5	D-5	D-6
SAMPLE DATE	6/6/2011	6/6/2011	6/8/2011	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012
SAMPLE LOCATION (DEPTH)	SBS-16(10-11)	SBS-17(10-11)	SBS-18(10-11)	D-1 (16)	D-2 (19)	D-3 (12)	DUPE-2	D-4 (12)	D-4 (19)	D-5 (12)	D-5 (19)	D-5 (21)	D-6 (16)
LABORATORY ID#	460-27360-6	460-27360-7	460-27563-6	SB59076-11	SB59076-13	SB59076-14	SB59076-42	SB59076-15	SB59076-16	SB59076-17	SB59076-18	SB59076-19	SB59076-20
DILUTION FACTOR	1	1	1	5000	50	1	1	50	50	1000	1	1	50
MATRIX	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Volatile Organic Compounds (ppm)													
1,2,4-Trimethylbenzene	<0.0012 U	<0.0011 U	**0.00046 J**	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	**0.393**	<0.0760 U	**94.7**	**0.0149 J**	**0.0040 J**	**0.0648 J**
1,3,5-Trimethylbenzene	<0.0012 U	<0.0011 U	<0.0011 U	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	**0.0981**	<0.0760 U	**27.6**	<0.0090 UJ	<0.0062 UJ	<0.0841 U
2-Butanone	ANR	ANR	ANR	<99.9 U	<0.684 U	<0.0496 UJ	<0.0579 UJ	<0.755 U	<0.76 U	<14.4 U	<0.0901 UJ	<0.0616 UJ	<0.841 U
4-Isopropyltoluene	<0.0012 U	<0.0011 U	ANR	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	<0.0755 U	<0.0760 U	**1.22 J**	<0.0090 UJ	<0.0062 UJ	<0.0841 U
Acetone	ANR	ANR	ANR	<99.9 U	<0.684 U	**0.0483 J**	**0.0729 J**	<0.755 U	<0.76 U	<14.4 U	**0.373 J**	**0.056 J**	<0.841 U
Benzene	<0.0012 U	<0.0011 U	<0.0011 U	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	<0.0755 U	<0.0760 U	<1.44 U	<0.0090 UJ	<0.0062 UJ	<0.0841 U
Carbon tetrachloride	ANR	ANR	ANR	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	<0.0755 U	<0.0760 U	<1.44 U	<0.0090 UJ	<0.0062 UJ	<0.0841 U
Chloroform	ANR	ANR	ANR	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	<0.0755 U	<0.0760 U	<1.44 U	<0.0090 UJ	<0.0062 UJ	<0.0841 U
Ethylbenzene	<0.0012 U	<0.0011 U	<0.0011 U	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	**0.0536 J**	<0.0760 U	**15.3**	<0.0090 UJ	<0.0062 UJ	<0.0841 U
Isopropylbenzene	<0.0012 U	<0.0011 U	<0.0011 U	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	**0.0423 J**	<0.0760 U	**3.12**	<0.0090 UJ	<0.0062 UJ	**0.0581 J**
m&p-Xylene	ANR	ANR	ANR	<20 U	<0.137 U	<0.0099 UJ	<0.0116 UJ	<0.151 U	<0.152 U	**71.0**	<0.0180 UJ	<0.0123 UJ	<0.168 U
Methyl tert-butyl ether	**0.004**	<0.0011 U	<0.0011 U	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	<0.0755 U	<0.0760 U	<1.44 U	<0.0090 UJ	<0.0062 UJ	<0.0841 U
Methylene chloride	ANR	ANR	ANR	<20 U	<0.137 U	**0.0033 J**	**0.0051 J**	<0.151 U	<0.152 U	<2.88 U	**0.0056 J**	**0.0046 J**	**0.325**
Naphthalene	<0.0012 U	<0.0011 U	**0.0013**	**673**	**1.03**	<0.0050 UJ	<0.0058 UJ	**1.15**	**2.25**	**18.4**	**0.0628 J**	**0.0088 J**	**27.8**
n-Butylbenzene	<0.0012 U	<0.0011 U	<0.0011 U	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	**0.266**	<0.0760 U	**6.41**	**0.0055 J**	**0.0036 J**	<0.0841 U
n-Propylbenzene	<0.0012 U	<0.0011 U	<0.0011 U	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	**0.175**	<0.0760 U	**11.7**	<0.0090 UJ	<0.0062 UJ	**0.0623 J**
o-Xylene	ANR	ANR	ANR	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	**0.193**	<0.0760 U	**31.2**	**0.0089 J**	<0.0062 UJ	<0.0841 U
sec-Butylbenzene	<0.0012 U	<0.0011 U	<0.0011 U	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	<0.0755 U	<0.0760 U	**1.64**	<0.0090 UJ	<0.0062 UJ	<0.0841 U
tert-Butanol (TBA)	ANR	ANR	ANR	<99.9 U	<0.684 U	<0.0496 UJ	<0.0579 UJ	<0.755 U	<0.76 U	<14.4 U	<0.0901 UJ	<0.0616 UJ	<0.841 UJ
Toluene	<0.0012 U	<0.0011 U	**0.00038 J**	<9.99 U	<0.0684 U	<0.0050 UJ	<0.0058 UJ	<0.0755 U	<0.0760 U	**9.56**	<0.0090 UJ	<0.0062 UJ	<0.0841 U
Total Confident Conc.	**0.004**	**0**	**0.00214**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Total Estimated Conc. (TICs)	**0**	**0**	**0**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Xylenes (total)	<0.0035 U	<0.0033 U	<0.0033 U	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Total Organic Carbon (ppm)													
Total Organic Carbon	ANR	ANR	ANR	**27800**	**4430**	**502**	**721**	**8280**	**22900**	**6630**	**8170**	**663**	**23300**

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit
2. U - Indicates the analyte was analyzed for but not detected.
3. UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.
4. **Indicates exceedance of NYSDEC CP-51 Soil Cleanup Levels**
5. ANR - Analyte Not Run
6. sec-Butylbenzene and tert-butylbenzene were included in First Environment summary tables but are not included on this table as they were either not analyzed or not detected in any sample.

TABLE 2
Con Edison 3rd Avenue Service Center
South UST Area

Volatile Organic Compounds Soil Results
March 2010/June 2011/Oct 2012

SAMPLE LOCATION	D-6	G-1	G-1	G-1	G-2	D-1A	D-6A	D-6A
SAMPLE DATE	10/25/2012	10/26/2012	10/26/2012	10/26/2012	10/25/2012	11/29/2012	11/29/2012	11/29/2012
SAMPLE LOCATION (DEPTH)	D-6 (19)	G-1 (12)	G-1 (19)	G-1 (21)	G-2 (13)	D-1A (16)	D-6A (16)	D-6A (19)
LABORATORY ID#	SB59076-21	SB59076-22RE1	SB59076-23	SB59076-24	SB59076-12	SB60897-01	SB60897-02	SB60897-03
DILUTION FACTOR	50	1	1	1	1	50	1	1
MATRIX	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Volatile Organic Compounds (ppm)								
1,2,4-Trimethylbenzene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	**0.290**	<0.0053 U	<0.0072 U
1,3,5-Trimethylbenzene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	**0.165**	<0.0053 U	<0.0072 U
2-Butanone	<0.886 U	<0.0634 UJ	<0.0639 UJ	<0.0674 UJ	<0.106 UJ	<0.578 U	<0.0532 U	**0.126 J**
4-Isopropyltoluene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	<0.0578 U	<0.0053 U	<0.0072 U
Acetone	<0.886 U	<0.0634 UJ	<0.0639 UJ	<0.0674 UJ	<0.106 UJ	<0.578 U	<0.0532 U	**0.398 J**
Benzene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	<0.0578 U	<0.0053 U	<0.0072 U
Carbon tetrachloride	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	<0.0578 U	<0.0053 U	<0.0072 U
Chloroform	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	<0.0578 U	<0.0053 U	<0.0072 U
Ethylbenzene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	**0.266**	<0.0053 U	<0.0072 U
Isopropylbenzene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	**0.234**	<0.0053 U	<0.0072 U
m&p-Xylene	<0.177 U	<0.0127 UJ	<0.0128 UJ	<0.0135 UJ	<0.0213 UJ	**0.147**	<0.0106 U	<0.0144 U
Methyl tert-butyl ether	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	<0.0578 U	<0.0053 U	<0.0072 U
Methylene chloride	<0.177 U	**0.0034 J**	**0.0043 J**	**0.0045 J**	**0.0055 J**	**0.0364 J**	**0.0052 J**	<0.0144 U
Naphthalene	**0.684**	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	**0.0076 J**	**97.3**	**0.0795**	<0.0072 U
n-Butylbenzene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	<0.0578 U	<0.0053 U	<0.0072 U
n-Propylbenzene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	**0.166 J**	<0.0053 U	<0.0072 U
o-Xylene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	**0.0434 J**	<0.0053 U	<0.0072 U
sec-Butylbenzene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	<0.0578 U	<0.0053 U	<0.0072 U
tert-Butanol (TBA)	<0.886 U	<0.0634 UJ	<0.0639 UJ	<0.0674 UJ	<0.106 UJ	<0.578 U	**0.201**	**0.434 J**
Toluene	<0.0886 U	<0.0063 UJ	<0.0064 UJ	<0.0067 UJ	<0.0106 UJ	<0.0578 U	<0.0053 U	<0.0072 U
Total Confident Conc.	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Total Estimated Conc. (TICs)	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Xylenes (total)	ANR	ANR	ANR	ANR	ANR	**0.1904**	ND	ND
Total Organic Carbon (ppm)								
Total Organic Carbon	**6220**	**19000**	**637**	**471**	**36400**	**18100**	**4770**	**91300**

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit
2. U - Indicates the analyte was analyzed for but not detected.
3. UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.
4. **Indicates exceedance of NYSDEC CP-51 Soil Cleanup Levels**
5. ANR - Analyte Not Run
6. sec-Butylbenzene and tert-butylbenzene were included in First Environment summary tables but are not included on this table as they were either not analyzed or not detected in any sample.

TABLE 3
Con Edison 3rd Avenue Service Center
South UST Area

Semi-Volatile Organic Compounds Soil Results
March 2010/June 2011/Oct 2012

SAMPLE LOCATION SAMPLE DATE SAMPLE LOCATION (DEPTH) LABORATORY ID# DILUTION FACTOR MATRIX	Soil Cleanup Levels for Fuel Oil Contaminated Soil	SBS-01 3/26/2010 SBS-1(12-13) 460-11644-1 1 Solid	SBS-01 3/26/2010 SBS-1(14-15) 460-11644-2 1 Solid	SBS-02 3/26/2010 DUPLICATE 460-11644-6 1 Solid	SBS-02 3/26/2010 SBS-2(13-14) 460-11644-3 1 Solid	SBS-02 3/26/2010 SBS-2(19-20) 460-11644-4 1 Solid	SBS-03 3/25/2010 SBS-3(10.0-10.5) 460-11615-1 1 Solid	SBS-04 3/25/2010 SBS-4(11.5-12.0) 460-11615-2 1 Solid	SBS-05 3/26/2010 SBS-5(10-11) 460-11644-5 1 Solid	SBS-06 3/25/2010 SBS-6(18.0-18.5) 460-11615-4 10 Solid	SBS-06 3/25/2010 SBS-6(7.0-7.5) 460-11615-3 1 Solid	SBS-07 3/25/2010 SBS-7(10.0-10.5) 460-11615-5 2 Solid	SBS-08 3/25/2010 SBS-8(12.5-13.0) 460-11615-6 1 Solid
Semivolatile Organic Compounds (ppm)													
2-Methylnaphthalene		**4.3**	**0.11 J**	**1.8**	**5.3**	**0.095 J**	ANR	ANR	<0.39 U	ANR	ANR	ANR	ANR
3+4-Methylphenols		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	20	<0.38 U	<0.37 U	<0.38 U	**0.073 J**	<0.41 U	<0.37 U	**0.10 J**	<0.39 U	**4.5**	<0.62 U	<0.76 U	<0.38 U
Acenaphthylene	100	<0.38 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	<0.37 U	<0.42 U	<0.39 U	<3.5 U	<0.62 U	<0.76 U	<0.38 U
Anthracene	100	**0.094 J**	<0.37 U	**0.23 J**	**0.17 J**	<0.41 U	<0.37 U	**0.29 J**	<0.39 U	**6.5**	<0.62 U	<0.76 U	<0.38 U
Benzo(a)anthracene	1	**0.088**	<0.037 U	**0.25**	**0.18**	<0.041 U	<0.037 U	**0.36**	**0.06**	**5.6**	**0.093**	**0.097**	**0.046**
Benzo(a)pyrene	1	**0.051**	<0.037 U	**0.15**	**0.13**	<0.041 U	<0.037 U	**0.26**	**0.057**	**5.7**	**0.08**	**0.10**	**0.032 J**
Benzo(b)fluoranthene	1	**0.043**	<0.037 U	**0.18**	**0.19**	<0.041 U	<0.037 U	**0.34**	**0.062**	**6.0**	**0.11**	**0.11**	**0.039**
Benzo(ghi)perylene	100	<0.38 U	<0.37 U	**0.08 J**	**0.077 J**	<0.41 U	<0.37 U	**0.11 J**	<0.39 U	**4.8**	<0.62 U	**0.11 J**	<0.38 U
Benzo(k)fluoranthene	0.8	<0.038 U	<0.037 U	**0.10**	**0.08**	<0.041 U	<0.037 U	**0.10**	**0.03 J**	**2.7**	**0.036 J**	<0.076 U	<0.038 U
bis(2-Ethylhexyl) phthalate		<0.38 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	ANR	ANR	<0.39 U	ANR	ANR	ANR	ANR
Carbazole		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	1	**0.083 J**	<0.37 U	**0.26 J**	**0.19 J**	<0.41 U	<0.37 U	**0.35 J**	**0.066 J**	**6.9**	**0.11 J**	**0.11 J**	<0.38 U
Dibenz(a,h)anthracene	0.33	<0.038 U	<0.037 U	<0.038 U	**0.019 J**	<0.041 U	<0.037 U	**0.027 J**	**0.012 J**	**0.57**	**0.014 J**	<0.076 U	<0.038 U
Dibenzofuran		<0.38 U	<0.37 U	**0.072 J**	**0.094 J**	<0.41 U	ANR	ANR	<0.39 U	ANR	ANR	ANR	ANR
Diethyl phthalate		<0.38 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	ANR	ANR	<0.39 U	ANR	ANR	ANR	ANR
Di-n-butyl phthalate		<0.38 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	ANR	ANR	<0.39 U	ANR	ANR	ANR	ANR
Di-n-octyl phthalate		<0.38 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	ANR	ANR	<0.39 U	ANR	ANR	ANR	ANR
Fluoranthene	100	**0.25 J**	<0.37 U	**0.72**	**0.57**	<0.41 U	<0.37 U	**1.1**	**0.11 J**	**18**	**0.17 J**	**0.16 J**	**0.12 J**
Fluorene	30	**0.098 J**	<0.37 U	**0.17 J**	**0.18 J**	<0.41 U	<0.37 U	**0.32 J**	<0.39 U	**4.7**	<0.62 U	<0.76 U	<0.38 U
Indeno(1,2,3-cd)pyrene	0.5	**0.019 J**	<0.037 U	**0.078**	**0.071**	<0.041 U	<0.037 U	**0.12**	**0.029 J**	**4.0**	**0.065**	**0.096**	<0.038 U
Naphthalene	12	**3.2**	**0.13 J**	**0.78**	**4.9**	**0.094 J**	<0.37 U	**7.2**	**0.058 J**	**42**	<0.62 U	<0.76 U	<0.38 U
Naphthalene, 1-methyl-		ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	100	**0.35 J**	<0.37 U	**0.92**	**0.73**	<0.41 U	<0.37 U	**1.2**	**0.13 J**	**22**	**0.13 J**	**0.16 J**	**0.14 J**
Pyrene	100	**0.14 J**	<0.37 U	**0.42**	**0.35 J**	<0.41 U	<0.37 U	**0.61**	**0.099 J**	**11**	**0.13 J**	**0.14 J**	**0.083 J**
Total Confident Conc.		**8.716**	**0.24**	**6.21**	**13.304**	**0.189**	**0**	**12.487**	**0.713**	**144.97**	**0.938**	**1.083**	**0.46**
Total Estimated Conc. (TICs)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit
2. U - Indicates the analyte was analyzed for but not detected.
3. UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.
4. **Indicates exceedance of the Soil Cleanup Levels for Fuel Oil Contaminated Soil**
5. ANR - Analyte Not Run
6. Note that results for samples SBS-9 through SBS-18 were not included on previous tables.

TABLE 3
Con Edison 3rd Avenue Service Center
South UST Area

Semi-Volatile Organic Compounds Soil Results
March 2010/June 2011/Oct 2012

SAMPLE LOCATION	SBS-09	SBS-09	SBS-09	SBS-10	SBS-11	SBS-11	SBS-11	SBS-12	SBS-12	SBS-13	SBS-13	SBS-14	SBS-16
SAMPLE DATE	6/8/2011	6/8/2011	6/8/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/6/2011	6/8/2011	6/8/2011	6/8/2011	6/6/2011
SAMPLE LOCATION (DEPTH)	DUP-2	SBS-9(13-14)	SBS-9(19-20)	SBS-10(10-11)	DUP-1	SBS-11(16-17)	SBS-11(19-20)	SBS-12(10-11)	SBS-12(16-17)	SBS-13(12-13)	SBS-13(16-17)	SBS-14(10-11)	SBS-16(10-11)
LABORATORY ID#	460-27563-7	460-27563-1	460-27563-2	460-27360-1	460-27360-8	460-27360-2	460-27360-3	460-27360-4	460-27360-5	460-27563-3	460-27563-4	460-27563-5	460-27360-6
DILUTION FACTOR	1	1	1	1	50	10	1	2	1	1	1	1	1
MATRIX	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Semivolatile Organic Compounds (ppm)													
2-Methylnaphthalene	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
3+4-Methylphenols	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	**0.059 J**	**0.058 J**	**0.57**	<0.39 U	**86**	**21**	**0.34 J**	<0.76 U	**0.066 J**	<0.38 U	<0.38 U	<0.37 U	**0.076 J**
Acenaphthylene	<0.41 U	<0.41 U	**0.13 J**	<0.39 U	**9.6 J**	**2.5 J**	<0.41 U	<0.76 U	<0.38 U	<0.38 U	<0.38 U	<0.37 U	<0.43 U
Anthracene	**0.14 J**	**0.13 J**	**1.8**	<0.39 U	**60**	**15**	**0.3 J**	<0.76 U	**0.20 J**	<0.38 U	<0.38 U	<0.37 U	**0.15 J**
Benzo(a)anthracene	**0.19**	**0.2**	**2.5**	**0.044**	**28**	**7.0**	**0.16**	<0.076 U	**0.55**	**0.095**	<0.038 U	<0.037 U	**0.37**
Benzo(a)pyrene	**0.10**	**0.11**	**1.9**	<0.039 U	**29**	**7.8**	**0.16**	<0.076 U	**0.55**	**0.06**	<0.038 U	<0.037 U	**0.36**
Benzo(b)fluoranthene	**0.12**	**0.13**	**2.0**	<0.039 U	**18**	**4.7**	**0.13**	<0.076 U	**0.6**	**0.062**	<0.038 U	<0.037 U	**0.4**
Benzo(ghi)perylene	<0.41 U	<0.41 U	**1.1**	<0.39 U	**27**	**6.5**	<0.41 U	<0.76 U	**0.46**	<0.38 U	<0.38 U	<0.37 U	**0.29 J**
Benzo(k)fluoranthene	**0.057**	**0.064**	**0.84**	<0.039 U	**8.0**	**2.0**	**0.064**	<0.076 U	**0.23**	**0.038**	<0.038 U	<0.037 U	**0.18**
bis(2-Ethylhexyl) phthalate	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Carbazole	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	**0.18 J**	**0.18 J**	**2.3**	<0.39 U	**27**	**7.6**	**0.16 J**	<0.76 U	**0.65**	**0.087 J**	<0.38 U	<0.37 U	**0.37 J**
Dibenz(a,h)anthracene	<0.041 U	<0.041 U	**0.33**	<0.039 U	<2 U	<0.48 U	<0.041 U	<0.076 U	<0.038 U	<0.038 U	<0.038 U	<0.037 U	<0.043 U
Dibenzofuran	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Diethyl phthalate	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butyl phthalate	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-octyl phthalate	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	**0.44**	**0.41**	**5.5**	<0.39 U	**66**	**16**	**0.34 J**	**0.16 J**	**0.88**	**0.16 J**	<0.38 U	<0.37 U	**0.64**
Fluorene	**0.11 J**	**0.097 J**	**0.76**	<0.39 U	**47**	**12**	**0.27 J**	<0.76 U	**0.074 J**	<0.38 U	<0.38 U	<0.37 U	<0.43 U
Indeno(1,2,3-cd)pyrene	<0.041 U	<0.041 U	**1.1**	<0.039 U	**16**	**4.2**	<0.041 U	<0.076 U	**0.41**	<0.038 U	<0.038 U	<0.037 U	**0.29**
Naphthalene	**0.73**	**0.65**	**0.39 J**	<0.39 U	**78**	**20**	**0.42**	<0.76 U	**0.26 J**	**0.14 J**	<0.38 U	<0.37 U	**0.071 J**
Naphthalene, 1-methyl-	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	**0.6**	**0.57**	**8.1**	<0.39 U	**180**	**48**	**0.98**	**0.15 J**	**0.77**	**0.16 J**	<0.38 U	<0.37 U	**0.51**
Pyrene	**0.38 J**	**0.35 J**	**5**	**0.081 J**	**140**	**36**	**0.65**	**0.18 J**	**1.2**	**0.13 J**	<0.38 U	<0.37 U	**0.77**
Total Confident Conc.	**3.106**	**2.949**	**34.32**	**0.125**	**819.6**	**210.3**	**3.974**	**0.49**	**6.9**	**0.932**	**0**	**0**	**4.477**
Total Estimated Conc. (TICs)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit

2. U - Indicates the analyte was analyzed for but not detected.

3. UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

4. **Indicates exceedance of the Soil Cleanup Levels for Fuel Oil Contaminated Soil**

5. ANR - Analyte Not Run

6. Note that results for samples SBS-9 through SBS-18 were not included on previous tables.

TABLE 3
Con Edison 3rd Avenue Service Center
South UST Area

Semi-Volatile Organic Compounds Soil Results
March 2010/June 2011/Oct 2012

SAMPLE LOCATION	SBS-17	SBS-18	D-1	D-2	D-3	D-3	D-4	D-4	D-5	D-5	D-5	D-6	D-6
SAMPLE DATE	6/6/2011	6/8/2011	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012
SAMPLE LOCATION (DEPTH)	SBS-17(10-11)	SBS-18(10-11)	D-1 (16)	D-2 (19)	D-3 (12)	DUPE-2	D-4 (12)	D-4 (19)	D-5 (12)	D-5 (19)	D-5 (21)	D-6 (16)	D-6 (19)
LABORATORY ID#	460-27360-7	460-27563-6	SB59076-11	SB59076-13	SB59076-14	SB59076-42	SB59076-15	SB59076-16	SB59076-17	SB59076-18	SB59076-19	SB59076-20	SB59076-21
DILUTION FACTOR	1	1	500	1	1	1	1	1	5	10	1	1	1
MATRIX	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Semivolatile Organic Compounds (ppm)													
2-Methylnaphthalene	ANR	ANR	**122**	**0.0398 J**	<0.189 U	<0.191 U	**0.413**	**0.169 J**	**7.35 J**	**0.492 J**	<0.207 U	<0.216 U	**0.0503 J**
3+4-Methylphenols	ANR	ANR	<238 U	<0.383 U	<0.373 U	<0.377 U	<0.397 U	<0.405 U	<2.02 U	<4.51 U	<0.408 U	<0.426 U	<0.441 U
Acenaphthene	<0.38 U	<0.38 U	**45.2 J**	**0.0235 J**	<0.189 U	<0.191 U	**0.208**	**0.508**	<1.02 U	**1.64 J**	<0.207 U	**0.0406 J**	**0.211 J**
Acenaphthylene	<0.38 U	<0.38 U	**26.9 J**	<0.194 U	<0.189 U	<0.191 U	**0.0506 J**	**0.0495 J**	<1.02 U	<2.28 U	<0.207 U	<0.216 U	**0.0267 J**
Anthracene	<0.38 U	<0.38 U	**98.3 J**	**0.057 J**	<0.189 U	<0.191 U	**0.471**	**0.858**	**0.192 J**	**2.90**	<0.207 U	**0.0425 J**	**0.339**
Benzo(a)anthracene	**0.026 J**	**0.079**	**33.9 J**	**0.0537 J**	<0.189 U	<0.191 U	**0.724**	**1.20**	**0.251 J**	**3.37**	<0.207 U	**0.0788 J**	**0.864**
Benzo(a)pyrene	<0.038 U	<0.038 U	**39.7 J**	**0.0618 J**	<0.189 U	<0.191 U	**0.66**	**0.980**	**0.205 J**	**2.84**	<0.207 U	**0.0558 J**	**0.813**
Benzo(b)fluoranthene	**0.017 J**	<0.038 U	**15.6 J**	**0.0353 J**	<0.189 U	<0.191 U	**0.539**	**0.891**	**0.156 J**	**2.14 J**	<0.207 U	**0.0449 J**	**0.769**
Benzo(ghi)perylene	<0.38 U	<0.38 U	**18.3 J**	**0.0386 J**	<0.189 U	<0.191 U	**0.266**	**0.342**	<1.02 U	**1.04 J**	<0.207 U	<0.216 U	**0.298**
Benzo(k)fluoranthene	**0.0095 J**	<0.038 U	<120 U	**0.0388 J**	<0.189 U	<0.191 U	**0.599**	**0.698**	<1.02 U	**2.39**	<0.207 U	**0.0441 J**	**0.817**
bis(2-Ethylhexyl) phthalate	ANR	ANR	<120 U	**0.0235 J**	**0.0364 J**	**0.0447 J**	**0.141 J**	**0.0327 J**	<1.02 U	<2.28 U	**0.0595 J**	**0.0503 J**	**0.0356 J**
Carbazole	ANR	ANR	<120 U	<0.194 U	<0.189 U	<0.191 U	<0.201 U	**0.329**	<1.02 U	<2.28 U	<0.207 U	<0.216 U	<0.223 U
Chrysene	<0.38 U	**0.078 J**	**29.8 J**	**0.0556 J**	<0.189 U	<0.191 U	**0.695**	**1.11**	**0.232 J**	**3.28**	<0.207 U	**0.0802 J**	**0.877**
Dibenz(a,h)anthracene	<0.038 U	<0.038 U	<120 U	<0.194 U	<0.189 U	<0.191 U	**0.0759 J**	**0.135 J**	<1.02 U	**0.351 J**	<0.207 U	<0.216 U	**0.0984 J**
Dibenzofuran	ANR	ANR	<120 U	<0.194 U	<0.189 U	<0.191 U	**0.161 J**	**0.373**	<1.02 U	**1.38 J**	<0.207 U	<0.216 U	**0.0864 J**
Diethyl phthalate	ANR	ANR	<238 U	<0.383 U	<0.373 U	<0.377 U	<0.397 U	<0.405 U	<2.02 U	<4.51 U	<0.408 U	<0.426 U	<0.441 U
Di-n-butyl phthalate	ANR	ANR	<238 U	**0.0928 J**	**0.0788 J**	**0.0853 J**	**0.179 J**	**0.116 J**	<2.02 U	<4.51 U	**0.173 J**	**0.14 J**	**0.123 J**
Di-n-octyl phthalate	ANR	ANR	<238 U	<0.383 U	<0.373 U	<0.377 U	<0.397 U	<0.405 U	**0.265 J**	<4.51 U	<0.408 U	<0.426 U	<0.441 U
Fluoranthene	<0.38 U	**0.13 J**	**98.6 J**	**0.139 J**	<0.189 U	<0.191 U	**1.82**	**2.58**	**0.633 J**	**8.62**	<0.207 U	**0.166 J**	**1.95**
Fluorene	<0.38 U	<0.38 U	**90.4 J**	**0.0478 J**	<0.189 U	<0.191 U	**0.330**	**0.579**	**0.238 J**	**1.86 J**	<0.207 U	**0.0306 J**	**0.196 J**
Indeno(1,2,3-cd)pyrene	<0.038 U	<0.038 U	<120 U	<0.194 U	<0.189 U	<0.191 U	**0.311**	**0.427**	<1.02 U	**1.28 J**	<0.207 U	<0.216 U	**0.364**
Naphthalene	<0.38 U	<0.38 U	**1380**	**0.355**	<0.189 U	<0.191 U	**0.222**	**0.636**	**6.98 J**	**0.993 J**	<0.207 U	**0.210 J**	**0.198 J**
Naphthalene, 1-methyl-	ANR	ANR	**79.8 J**	**0.0315 J**	<0.189 U	<0.191 U	**0.214**	**0.143 J**	**3.22 J**	**0.378 J**	<0.207 U	<0.216 U	**0.0459 J**
Phenanthrene	**0.084 J**	**0.13 J**	**275**	**0.177 J**	<0.189 U	**0.0269 J**	**2.04**	**2.88**	**0.798 J**	**11.1**	<0.207 U	**0.168 J**	**1.61**
Pyrene	<0.38 U	**0.13 J**	**167**	**0.177 J**	<0.189 U	<0.191 U	**1.58**	**2.19**	**0.480 J**	**7.27**	<0.207 U	**0.178 J**	**1.73**
Total Confident Conc.	**0.1365**	**0.547**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Total Estimated Conc. (TICs)	**0**	**0**	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR	ANR

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit

2. U - Indicates the analyte was analyzed for but not detected.

3. UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

4. **Indicates exceedance of the Soil Cleanup Levels for Fuel Oil Contaminated Soil**

5. ANR - Analyte Not Run

6. Note that results for samples SBS-9 through SBS-18 were not included on previous tables.

TABLE 3
Con Edison 3rd Avenue Service Center
South UST Area

Semi-Volatile Organic Compounds Soil Results
March 2010/June 2011/Oct 2012

SAMPLE LOCATION	G-1	G-1	G-1	G-2	D-1A	D-6A	D-6A
SAMPLE DATE	10/26/2012	10/26/2012	10/26/2012	10/25/2012	11/29/2012	11/29/2012	11/29/2012
SAMPLE LOCATION (DEPTH)	G-1 (12)	G-1 (19)	G-1 (21)	G-2 (13)	D-1A (16)	D-6A (16)	D-6A (19)
LABORATORY ID#	SB59076-22	SB59076-23	SB59076-24	SB59076-12	SB60897-01	SB60897-02	SB60897-03
DILUTION FACTOR	1	1	1	1	100	1	1
MATRIX	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Semivolatile Organic Compounds (ppm)							
2-Methylnaphthalene	<0.217 U	<0.209 U	<0.207 U	<0.248 U	**12.7 J**	<0.198 U	<0.239 U
3+4-Methylphenols	<0.429 U	<0.413 U	<0.409 U	<0.49 U	<41.8 U	<0.392 U	**0.108 J**
Acenaphthene	<0.217 U	<0.209 U	<0.207 U	<0.248 U	**9.92 J**	**0.0396 J**	<0.239 U
Acenaphthylene	<0.217 U	<0.209 U	<0.207 U	<0.248 U	**10.5 J**	<0.198 U	<0.239 U
Anthracene	<0.217 U	<0.209 U	<0.207 U	<0.248 U	**8.24 J**	<0.198 U	**0.058 J**
Benzo(a)anthracene	**0.0503 J**	<0.209 U	<0.207 U	**0.0542 J**	**3.17 J**	**0.033 J**	**0.151 J**
Benzo(a)pyrene	**0.0429 J**	<0.209 U	<0.207 U	**0.0529 J**	**3.60 J**	**0.0323 J**	**0.150 J**
Benzo(b)fluoranthene	**0.0318 J**	<0.209 U	<0.207 U	**0.0414 J**	<21.1 U	<0.198 U	**0.103 J**
Benzo(ghi)perylene	<0.217 U	<0.209 U	<0.207 U	<0.248 U	<21.1 U	<0.198 U	**0.0745 J**
Benzo(k)fluoranthene	**0.0401 J**	<0.209 U	<0.207 U	**0.048 J**	<21.1 U	<0.198 U	**0.162 J**
bis(2-Ethylhexyl) phthalate	**0.0251 J**	<0.209 U	**0.0253 J**	**0.0287 J**	<21.1 U	<0.198 U	<0.239 U
Carbazole	<0.217 U	<0.209 U	<0.207 U	<0.248 U	<21.1 U	<0.198 U	<0.239 U
Chrysene	**0.0463 J**	<0.209 U	<0.207 U	**0.0565 J**	**2.60 J**	**0.0371 J**	**0.171 J**
Dibenz(a,h)anthracene	<0.217 U	<0.209 U	<0.207 U	<0.248 U	<21.1 U	<0.198 U	<0.239 U
Dibenzofuran	<0.217 U	<0.209 U	<0.207 U	<0.248 U	<21.1 U	<0.198 U	<0.239 U
Diethyl phthalate	<0.429 U	<0.413 U	<0.409 U	**0.0317 J**	<41.8 U	<0.392 U	<0.472 U
Di-n-butyl phthalate	**0.102 J**	**0.0804 J**	**0.112 J**	**0.124 J**	<41.8 U	<0.392 U	<0.472 U
Di-n-octyl phthalate	<0.429 U	<0.413 U	<0.409 U	<0.49 U	<41.8 U	<0.392 U	<0.472 U
Fluoranthene	**0.110 J**	<0.209 U	<0.207 U	**0.110 J**	**8.44 J**	**0.088 J**	**0.39**
Fluorene	<0.217 U	<0.209 U	<0.207 U	<0.248 U	**8.16 J**	<0.198 U	<0.239 U
Indeno(1,2,3-cd)pyrene	<0.217 U	<0.209 U	<0.207 U	<0.248 U	<21.1 U	<0.198 U	**0.084 J**
Naphthalene	<0.217 U	<0.209 U	<0.207 U	**0.204 J**	**238**	**0.161 J**	<0.239 U
Naphthalene, 1-methyl-	<0.217 U	<0.209 U	<0.207 U	<0.248 U	**14.8 J**	<0.198 U	<0.239 U
Phenanthrene	**0.0756 J**	<0.209 U	<0.207 U	**0.088 J**	**21.4**	**0.076 J**	**0.247**
Pyrene	**0.0827 J**	<0.209 U	<0.207 U	**0.102 J**	**12.0 J**	**0.0647 J**	**0.272**
Total Confident Conc.	ANR	ANR	ANR	ANR	ANR	ANR	ANR
Total Estimated Conc. (TICs)	ANR	ANR	ANR	ANR	ANR	ANR	ANR

Notes:

1. J - Estimated value. Analyte detected at a level less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit

2. U - Indicates the analyte was analyzed for but not detected.

3. UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

4. **Indicates exceedance of the Soil Cleanup Levels for Fuel Oil Contaminated Soil**

5. ANR - Analyte Not Run

6. Note that results for samples SBS-9 through SBS-18 were not included on previous tables.

Table 5-2
Summary of Historical Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location ID	Sample ID (sample depth ft bgs)	VOCs				SVOCs			
		VOC	VOC Range (mg/kg)			SVOC	SVOC Range (mg/kg)		
		Detected?	>10	>100	>1000	Detected?	>10	>100	>1000
Demolition Area									
MW-2	MW-2(8.5-9)	N				N			
	MW-3(9-9.5)	Y	20			Y		714	
MW-3	MW-3(11.5-12)	N				N			
	MW-4(9-9.5)	Y	17			Y			1232
MW-4	MW-4(14.5-15)	N				N			
MW-5	MW-5(8-8.5)	N				Y	35		
MW-6	no soil samples								
MW-7	no soil samples								
TP-4	TP-4(6.5-7)	N				N			
TP-5	no soil samples								
TP-6	no soil samples								
TP-7	TP-7(7.5-8)	Y	18			Y		252	
TP-8	TP-8(10.5-11)	Y	<10			Y	36		
TW-1	TW-1(8.5-9)	N				N			
DW-1	DW-1(8.5-9)	N				Y		133	
DW-2	DW-2(7.5-8)	N				N			
DW-3	DW-3(7.5-8)	Y	<10			Y			1536
	DW-3(9.5-10)	Y	<10			Y	60		
DW-4	DW-4(8.5-9)	N				N			
DW-5	DW-5(8.5-9)	N				Y	16		
DW-6	DW-6(7.5-8)	N				Y		125	
DW-7	DW-7(8-9)	N				N			
DW-8	DW-8(8-9)	N				N			
	DW-8(11.5-12.5)	N				Y	85		
DW-9	DW-9(8-9)	N				N			
SB-1	SB-1(8-10)	Y	36			Y		455	
	SB-1(14-15)	N				N			
SB-2	SB-2(8-9)	N				N			
SB-3	SB-3(9-10)	Y	<10			Y			1754
S-1	S-1(unknown)	N				Y		447	
S-2	S-2(unknown)	N				Y	65		
S-3	S-3(unknown)	N				Y	71		
S-4	S-4(unknown)	N				N			
S-5	S-5 (unknown)	Y	13			N			
S-6	S-6(unknown)	Y	<10			Y	38		
	S-7(7-7.5)	N				N			
S-7	S-7(10-10.5)	N				NS			
	S-8(7-7.5)	NS				Y			8804
S-8	S-8(10-10.5)	N				Y	27		
	S-9(9-9.5)	N				N			
S-9	S-9(11-11.5)	N				N			
S-10	S-10(8.5-9)	N				Y	14		
S-11	S-11(10-10.5)	N				N			
S-12	S-12(8.5-9)	N				Y	27		
	S-13(9-9.5)	Y	68			N	15		
S-13	S-13(11-11.5)	N				Y	96		
	S-14(9.5-10)	Y		685		Y		147	
S-14	S-14(12.5-13)	Y	<10			Y			2725
	S-15(10-10.5)	Y	11			N			
S-15	S-15(15-15.5)	Y	<10			N			
S-16	S-16(8.5-9)	N				Y		142	
S-17	S-17(10.5-11)	N				Y		191	
S-18	S-18(9-9.5)	N				Y	54		

Table 5-2
Summary of Historical Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location ID	Sample ID (sample depth ft bgs)	VOCs				SVOCs			
		VOC	VOC Range (mg/kg)			SVOC	SVOC Range (mg/kg)		
		Detected?	>10	>100	>1000	Detected?	>10	>100	>1000
Demolition Area									
S-19	S-19(7.5-8)	N				Y		203	
	S-20(8-8.5)	Y	10			Y			1161
S-20	S-20(10.5-11)	N				N			
	S-21(9-9.5)	Y	90			Y			2057
S-21	S-21(11.5-12)	N				Y	19		
	S-22(9-9.5)	Y	46			Y			1565
S-22	S-22(12-12.5)	Y	<10			N			
	S-23(9-9.5)	Y		224		Y			3553
S-23	S-23(12-12.5)	Y	<10			N			
	S-24(8.5-9)	Y	<10			Y			4096
S-24	S-24(11.5-12)	N				N			
	S-25(9-9.5)	Y	14			Y			4274
S-25	S-25(11.5-12)	N				N			
	S-26(8.5-9)	Y	87			Y			10475
S-26	S-26(11.5-12)	NS				Y			2536
	S-27(8-8.5)	N				Y		356	
S-27	S-27(11-11.5)	N				N			
S-28	S-28(10-10.5)	N				Y	45		
	S-29(9.5-10)	Y	<10			Y		275	
S-29	S-29(10.5-11)	N				Y	27		
	S-30(12.5-13)	N				Y	67		
S-30	S-30(14-14.5)	Y	<10			Y		191	
	S-31(10-10.5)	Y	<10			Y			2272
S-31	S-31(14-14.5)	Y	<10			N			
	S-32(10-10.5)	Y	<10			Y			1499
S-32	S-32(14.5-15)	Y	<10			N			
	S-33(9-9.5)	Y	30			Y			7242
S-33	S-33(14-14.5)	N				N			
	S-34(9-9.5)	Y	32			Y			5411
S-34	S-34(13.5-14)	N				Y		146	
	S-35(11-11.5)	Y		142		Y			15,135
S-35	S-35(14.5-15)	Y	<10			Y		546	
	S-36(10-10.5)	Y	70			Y			1293
S-36	S-36(12-12.5)	N				N			
	S-37(11-11.5)	Y		112		Y			3380
S-37	S-37(16-16.5)	N				N			
	S-38(10-10.5)	Y		433		Y			18, 358
S-38	S-38(14-14.5)	Y	<10			Y	24		
	S-39(10-10.5)	N				Y		160	
S-39	S-39(13.5-14)	Y	<10			N			
	S-40(10-10.5)	y	<10			Y		309	
S-40	S-40(13.5-14)	Y	<10			N			
	S-41(14.5-15)	N				Y			1099
S-41	S-41(16.5-17)	Y	<10			N			
S-42	S-42(9.5-10)	N				N			

Table 5-2
Summary of Historical Soil Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location ID	Sample ID (sample depth ft bgs)	VOCs				SVOCs			
		VOC	VOC Range (mg/kg)			SVOC	SVOC Range (mg/kg)		
		Detected?	>10	>100	>1000	Detected?	>10	>100	>1000
South UST Area									
SBS-1	SBS-1(12-13)	Y		206		N			
	SBS-1(14-15)	Y	10			N			
SBS-2	SBS-2(13-14)	Y		619		N			
	SBS-2(19-20)	N	<10			N			
SBS-3	SBS-3(10-10.5)	N				N			
SBS-4	SBS-4(11.5-12)	Y		292		N			
SBS-5	SBS-5(10-11)	N				N			
SBS-6	SBS-6(7-7.5)	N				N			
	SBS-6(18-18.5)	Y			2992	Y		145	
SBS-7	SBS-7(10-10.5)	N				N			
SBS-8	SBS-8(12.5-13)	Y	<10			N			
SBS-9	SBS-9(13-14)	Y	23			N			
	SBS-9(19-20)	N				Y	34		
SBS-10	SBS-10(10-11)	N				N			
SBS-11	SBS-11(16-17)	N				Y		515	
	SBS-11(19-20)	N				N			
SBS-12	SBS-12(10-11)	N				N			
	SBS-12(16-17)	N				N			
SBS-13	SBS-13(12-13)	Y	<10			N			
	SBS-13(16-17)	N				N			
SBS-14	SBS-14(10-11)	N				N			
SBS-16	SBS-16(10-11)	N				N			
SBS-17	SBS-17(10-11)	N				N			
SBS-18	SBS-18(10-11)	N				N			
D-1	D-1(16)	N				Y			2500
D-2	D-2(19)	N				N			
D-3	D-3(12)	N				N			
D-4	D-4(12)	N				N			
	D-4(19)	NS				Y			
D-5	D-5(12)	Y		200		N			
	D-5(19)	N				Y	50		
	D-5(21)	N				N			
D-6	D-6(16)	n				y	30		
	D-6(19)	N				Y	<10		
G-1	G-1(12)	N				N			
	G-1(19)	N				N			
	G-1(21)	N				N			
G-2	G-2(13)	N				N			
D-1A	D-1A(16)	N				Y		~350	
D-6A	D-6A(16)	N				N			
	D-6A(19)	N				N			

NOTES:

The data summarized in this table were compiled from previous investigation laboratory results and other site reports.

VOCs - volatile organic compounds

SVOCs - seme-volatile organic compounds

ft bgs - feet below ground surface

mg/kg - milligrams per kilogram

Y- yes

N - no

< - less than

Table 5-3
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-20D 8/22/2013 MW-20D-082213 3082308	MW-4D 8/22/2013 DUP-082213 3082308	MW-4D 8/22/2013 MW-4D-082213 3082308	MW-C10D 8/21/2013 MW-C10D-082113 3082122	MW-C10S 8/21/2013 DUP 8/21/13 3082122	MW-C10S 8/21/2013 MW-C10S-082113 3082122	MW-C11D 8/23/2013 MW-C11D-082313 3082308
BTEX (ug/L)									
Benzene	71-43-2	1	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m&p-Xylene	1330-20-7-m,p	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Total BTEX			*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
VOCs (ug/L)									
Acetone	67-64-1	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Methyl tert-butyl ether	1634-04-4	10	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Methylcyclohexane	108-87-2	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Total VOCs			*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
PAHs (ug/L)									
2-Methylnaphthalene	91-57-6	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
Acenaphthene	83-32-9	20	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	**5.2**	**6.2**	< 2.2 U
Acenaphthylene	208-96-8	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
Anthracene	120-12-7	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
Fluoranthene	206-44-0	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
Fluorene	86-73-7	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
Naphthalene	91-20-3	10	< 0.52 U	< 0.51 U	< 0.50 U	**9.5**	< 0.52 U	< 0.50 U	< 0.56 U
Phenanthrene	85-01-8	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
Pyrene	129-00-0	50	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
Total PAHs			*ND*	*ND*	*ND*	***9.5***	***5.2***	***6.2***	*ND*
SVOCs (ug/L)									
1,1'-Biphenyl	92-52-4	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
2,4-Dimethylphenol	105-67-9	50	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U
4-Methylphenol	106-44-5	NL	< 0.52 U	< 0.51 U	< 0.50 U	< 0.51 U	< 0.52 U	< 0.50 U	< 0.56 U
Acetophenone	98-86-2	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
Benzaldehyde	100-52-7	NL	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
bis(2-Ethylhexyl) phthalate	117-81-7	5	< 2.1 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U	< 2.0 U	< 2.2 U
Total SVOCs			*ND*	*ND*	*ND*	***9.5***	***5.2***	***6.2***	*ND*
PCBs (ug/L)									
Polychlorinated biphenyls	*1336-36-3*	*0.09*	*< 0.25 U*	*< 0.25 U*	*< 0.25 U*	*< 0.25 U*	*< 0.26 U*	*< 0.25 U*	*< 0.26 U*

Notes:

ug/L = micrograms per liter

Bold value = detected above reporting limit

Gray Highlighted values exceed NYSDEC Groundwater Guidance or Standard Value

NL = Not listed

ND = Not detected

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte.

J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, likely to be biased high. The associated numerical value is the approximate concentration of the analyte in the sample.

J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.

R = The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 5-3
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C11S 8/23/2013 MW-C11S-082313 3082616	MW-C12D 8/23/2013 MW-C12D-082313 3082616	MW-C12S 8/23/2013 MW-C12S-082313 3082616	MW-C13D 2/7/2014 MW-C-13D-020714 4020742	MW-C13S 2/7/2014 MW-C-13S-020714 4020742	MW-C14D 2/4/2014 MW-C-14D-020414 4020416	MW-C14S 2/4/2014 DUP-020414 4020416
BTEX (ug/L)									
Benzene	71-43-2	1	< 0.50 U	**2.8**	< 0.50 U	**0.77**	< 0.50 U	< 0.50 U	< 0.50 U
Ethylbenzene	100-41-4	5	< 1.0 U	**1.1**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m&p-Xylene	1330-20-7-m,p	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	NL	< 1.0 U	**1.6**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	**1.2**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	< 1.0 U	**1.6**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Total BTEX			*ND*	***6.7***	*ND*	***0.77***	*ND*	*ND*	*ND*
VOCs (ug/L)									
Acetone	67-64-1	50	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ	< 10 U	< 10 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.7**	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether	1634-04-4	10	**1.0**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Methylcyclohexane	108-87-2	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Total VOCs			***1.0***	***6.7***	*ND*	***0.77***	*ND*	***1.7***	*ND*
PAHs (ug/L)									
2-Methylnaphthalene	91-57-6	NL	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Acenaphthene	83-32-9	20	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Acenaphthylene	208-96-8	NL	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Anthracene	120-12-7	50	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Fluoranthene	206-44-0	50	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Fluorene	86-73-7	50	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Naphthalene	91-20-3	10	< 0.53 U	**4.3**	< 0.53 U	**4.9**	< 0.54 U	**3.5**	< 0.50 U
Phenanthrene	85-01-8	50	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Pyrene	129-00-0	50	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Total PAHs			*ND*	***4.3***	*ND*	***4.9***	*ND*	***3.5***	*ND*
SVOCs (ug/L)									
1,1'-Biphenyl	92-52-4	5	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
2,4-Dimethylphenol	105-67-9	50	< 0.53 U	< 0.53 U	< 0.53 U	**1.8**	< 0.54 U	< 0.56 U	< 0.50 U
4-Methylphenol	106-44-5	NL	< 0.53 U	< 0.53 U	< 0.53 U	< 0.56 U	**1.1 J**	< 0.56 U	< 0.50 U
Acetophenone	98-86-2	NL	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Benzaldehyde	100-52-7	NL	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
bis(2-Ethylhexyl) phthalate	117-81-7	5	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.0 U
Total SVOCs			*ND*	***4.3***	*ND*	***6.7***	***1.1***	***3.5***	*ND*
PCBs (ug/L)									
Polychlorinated biphenyls	*1336-36-3*	*0.09*	*< 0.14 U*	*< 0.26 U*	*< 0.26 U*	*< 0.28 U*	*< 0.27 U*	*< 0.25 UJ*	*< 0.25 U*

Notes:

ug/L = micrograms per liter

Bold value = detected above reporting limit

Gray Highlighted values exceed NYSDEC Groundwater Guidance or Standard Value

NL = Not listed

ND = Not detected

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte.

J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, likely to be biased high. The associated numerical value is the approximate concentration of the analyte in the sample.

J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.

R = The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 5-3
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C14S 2/4/2014 MW-C-14S-020414 4020416	MW-C1D 8/20/2013 MW-C1D-082013 3082122	MW-C1S 8/20/2013 MW-C1S-082013 3082122	MW-C2D 8/21/2013 MW-C2D-082113 3082308	MW-C3D 8/22/2013 MW-C3D-082213 3082308	MW-C4D 8/19/2013 MW-C4D-081913 3082122	MW-C4S 8/19/2013 MW-C4S-081913 3082122
BTEX (ug/L)									
Benzene	71-43-2	1	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	**0.85**	< 0.50 U	< 0.50 U
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**6.7**	< 1.0 U	< 1.0 U
m&p-Xylene	1330-20-7-m,p	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**2.6**	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**2.0**	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**4.6**	< 1.0 U	< 1.0 U
Total BTEX			*ND*	*ND*	*ND*	*ND*	***12.15***	*ND*	*ND*
VOCs (ug/L)									
Acetone	67-64-1	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.3**	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	**1.8 J**
Methyl tert-butyl ether	1634-04-4	10	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	**4.7**
Methylcyclohexane	108-87-2	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Total VOCs			*ND*	*ND*	*ND*	*ND*	***13.45***	*ND*	***6.5***
PAHs (ug/L)									
2-Methylnaphthalene	91-57-6	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**6.0**	< 2.2 U	**6.8**
Acenaphthene	83-32-9	20	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**4.5**	**2.8**	**28**
Acenaphthylene	208-96-8	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**14**	< 2.2 U	< 2.1 U
Anthracene	120-12-7	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	**3.1**
Fluoranthene	206-44-0	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	**3.5**
Fluorene	86-73-7	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**3.6**	< 2.2 U	**11**
Naphthalene	91-20-3	10	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 U	**110**	**33**	**63**
Phenanthrene	85-01-8	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**3.4**	< 2.2 U	**23**
Pyrene	129-00-0	50	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	**5.1**
Total PAHs			*ND*	*ND*	*ND*	*ND*	***141.5***	***35.8***	***143.5***
SVOCs (ug/L)									
1,1'-Biphenyl	92-52-4	5	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	**3.1**	< 2.2 U	**3.7**
2,4-Dimethylphenol	105-67-9	50	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 UJ	< 0.52 U	< 0.56 U	< 0.52 U
4-Methylphenol	106-44-5	NL	< 0.54 U	< 0.54 U	< 0.51 U	< 0.56 UJ	< 0.52 U	< 0.56 U	< 0.52 U
Acetophenone	98-86-2	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U
Benzaldehyde	100-52-7	NL	< 2.2 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U
bis(2-Ethylhexyl) phthalate	117-81-7	5	< 2.2 U	< 2.2 U	< 2.0 U	**2.8**	< 2.1 U	< 2.2 U	< 2.1 U
Total SVOCs			*ND*	*ND*	*ND*	***2.8***	***144.6***	***35.8***	***147.2***
PCBs (ug/L)									
Polychlorinated biphenyls	*1336-36-3*	*0.09*	*< 0.28 U*	*< 0.25 U*	*< 0.25 U*	*< 0.14 U*	*< 0.25 U*	*< 0.27 U*	*< 0.25 U*

Notes:

ug/L = micrograms per liter

Bold value = detected above reporting limit

Gray Highlighted values exceed NYSDEC Groundwater Guidance or Standard Value

NL = Not listed

ND = Not detected

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

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J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, likely to be biased high. The associated numerical value is the approximate concentration of the analyte in the sample.

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R = The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 5-3
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C5D 8/22/2013 MW-C5D-082213 3082308	MW-C5S 8/22/2013 MW-C5S-082213 3082308	MW-C6D 8/20/2013 MW-C6D-082013 3082122	MW-C7D 8/21/2013 MW-C7D-082113 3082308	MW-C7S 8/21/2013 MW-C7S-082113 3082308	MW-C8D 8/22/2013 MW-C8D-082213 3082308	MW-C9D 8/21/2013 MW-C9D-082113 3082122	MW-C15S 9/11/2015 MW-C15 S-091115 5091402
BTEX (ug/L)										
Benzene	71-43-2	1	< 0.50 U	**32**	< 0.50 U	< 0.50 U	**26**	**0.74**	< 0.50 U	**2.7**
Ethylbenzene	100-41-4	5	**11**	**740**	< 1.0 U	< 1.0 U	**550**	**2.0**	< 1.0 U	**71**
m&p-Xylene	1330-20-7-m,p	NL	**3.3**	**140**	< 1.0 U	< 1.0 U	**88**	**1.8**	< 1.0 U	**18**
o-Xylene	95-47-6	NL	**2.9**	**100**	< 1.0 U	< 1.0 U	**59**	**1.7**	< 1.0 U	**11**
Toluene	108-88-3	5	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	**1.8**
Xylenes (total)	1330-20-7	5	**6.2**	**240**	< 1.0 U	< 1.0 U	**147**	**3.5**	< 1.0 U	**29**
Total BTEX			***17.2***	***1012***	*ND*	*ND*	***723***	***6.24***	*ND*	***104.5***
VOCs (ug/L)										
Acetone	67-64-1	50	< 10 U	< 500 U	< 10 U	< 10 U	< 500 U	< 10 U	< 10 U	< 5.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	**1.4**	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	**1.4**	**59**	< 1.0 UJ	< 1.0 U	< 50 U	< 1.0 U	< 1.0 UJ	**19**
Methyl tert-butyl ether	1634-04-4	10	< 0.50 U	< 25 U	< 0.50 U	< 0.50 U	< 25 U	< 0.50 U	< 0.50 U	< 0.50 U
Methylcyclohexane	108-87-2	NL	**2.4**	< 50 U	< 1.0 U	< 1.0 U	< 50 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 50 U	< 1.0 UJ	< 1.0 U	< 50 U	< 1.0 U	< 1.0 UJ	**2.2**
Total VOCs			***22.4***	***1071***	*ND*	*ND*	***723***	***6.24***	*ND*	***125.7***
PAHs (ug/L)										
2-Methylnaphthalene	91-57-6	NL	**23**	**710**	< 2.1 U	< 2.1 U	**780**	**10**	< 2.2 U	< 2.2 U
Acenaphthene	83-32-9	20	**46**	**860**	**4.0**	**2.7**	**970**	**13**	< 2.2 U	**78 J**
Acenaphthylene	208-96-8	NL	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U	**16 J**
Anthracene	120-12-7	50	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U	< 2.2 UJ
Fluoranthene	206-44-0	50	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U	**7.2 J**
Fluorene	86-73-7	50	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U	**11 J**
Naphthalene	91-20-3	10	**530**	**20000**	**8.9**	**25**	**16000**	**310**	< 0.54 U	**210 J**
Phenanthrene	85-01-8	50	**12**	< 210 U	< 2.1 U	< 2.1 U	< 220 U	**9.5**	< 2.2 U	< 2.2 U
Pyrene	129-00-0	50	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U	**14**
Total PAHs			***611***	***21570***	***12.9***	***27.7***	***17750***	***342.5***	*ND*	***336.2***
SVOCs (ug/L)										
1,1'-Biphenyl	92-52-4	5	< 10 U	**270**	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U	< 2.2 U
2,4-Dimethylphenol	105-67-9	50	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	**5.4**	< 0.54 U	< 0.56 U
4-Methylphenol	106-44-5	NL	< 2.6 U	< 52 U	< 0.52 U	< 0.53 U	< 56 U	< 1.5 U	< 0.54 UJ	< 0.56 U
Acetophenone	98-86-2	NL	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U	**2.6**
Benzaldehyde	100-52-7	NL	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U	< 2.2 UJ
bis(2-Ethylhexyl) phthalate	117-81-7	5	< 10 U	< 210 U	< 2.1 U	< 2.1 U	< 220 U	< 6.2 U	< 2.2 U	< 2.2 U
Total SVOCs			***611***	***21840***	***12.9***	***27.7***	***17750***	***347.9***	*ND*	***338.8***
PCBs (ug/L)										
Polychlorinated biphenyls	*1336-36-3*	*0.09*	*< 0.25 U*	*< 0.25 U*	*< 0.25 U*	*< 0.25 UJ*	*< 0.25 U*	*< 0.25 U*	*< 0.25 U*	< 0.25 U

Notes:

ug/L = micrograms per liter

Bold value = detected above reporting limit

Gray Highlighted values exceed NYSDEC Groundwater Guidance or Standard Value

NL = Not listed

ND = Not detected

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte.

J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, likely to be biased high. The associated numerical value is the approximate concentration of the analyte in the sample.

J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.

R = The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 5-3
Summary of 2013 Groundwater Analytical Results
Site Investigation
3rd Avenue Yard, Brooklyn, New York

Location Sample Date Sample ID SDG	CAS Number	NYSDEC Groundwater Guidance or Standard Value	MW-C15S 9/11/2015 DUPE-091115 5091402	MW-C15D 9/11/2015 MW-C15 D-091115 5091402	MW-C16S 9/11/2015 MW-C16 S-091115 5091402	MW-C16D 9/11/2015 MW-C16 D-091115 5091402	MW-C17S 9/16/2015 MW-C17S-091615 5091703	MW-C17D 9/16/2015 MW-C17D-091615 5091703
BTEX (ug/L)								
Benzene	71-43-2	1	**2.9**	**11**	< 0.50 U	**6.8 J+**	< 0.50 UJ	< 0.50 U
Ethylbenzene	100-41-4	5	**75**	**2.6**	< 1.0 U	**2.6 J+**	< 1.0 UJ	< 1.0 UJ
m&p-Xylene	1330-20-7-m,p	NL	**19**	**4.0**	< 1.0 U	**3.3 J+**	< 1.0 UJ	< 1.0 U
o-Xylene	95-47-6	NL	**13**	**2.8**	< 1.0 U	**2.0 J+**	< 1.0 UJ	< 1.0 UJ
Toluene	108-88-3	5	**1.8**	**1.1**	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Xylenes (total)	1330-20-7	5	**32**	**6.8**	< 1.0 U	**5.3 J+**	< 1.0 UJ	< 1.0 UJ
Total BTEX			***111.7***	***21.5***	*ND*	***14.7***	*ND*	*ND*
VOCs (ug/L)								
Acetone	67-64-1	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	**15 J**
Carbon disulfide	75-15-0	60	< 1.0 U	**1.6**	< 1.0 U	**1.4 J+**	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	**4.3**	< 1.0 U	< 1.0 U	< 1.0 U	**2.8**
Isopropylbenzene	98-82-8	5	**21**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Methyl tert-butyl ether	1634-04-4	10	< 0.50 U	< 0.50 U	< 0.50 UJ	< 0.50 U	< 0.50 UJ	< 0.50 UJ
Methylcyclohexane	108-87-2	NL	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Styrene	100-42-5	5	**2.3**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Total VOCs			***135***	***27.4***	*ND*	***16.1***	*ND*	***17.8***
PAHs (ug/L)								
2-Methylnaphthalene	91-57-6	NL	**2.5**	< 2.2 U	< 2.1 U	< 2.2 UJ	< 2.0 U	< 2.0 U
Acenaphthene	83-32-9	20	**120 J**	**2.6**	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Acenaphthylene	208-96-8	NL	**27 J**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Anthracene	120-12-7	50	**5.0 J**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Fluoranthene	206-44-0	50	**11 J**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Fluorene	86-73-7	50	**22 J**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Naphthalene	91-20-3	10	< 0.56 UJ	< 0.56 U	< 0.53 U	**1.8**	< 0.50 U	< 0.51 U
Phenanthrene	85-01-8	50	**3.4**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Pyrene	129-00-0	50	**19**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Total PAHs			***207.4***	***2.6***	*ND*	***1.8***	*ND*	*ND*
SVOCs (ug/L)								
1,1'-Biphenyl	92-52-4	5	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 UJ	< 2.0 U	< 2.0 U
2,4-Dimethylphenol	105-67-9	50	< 0.56 U	< 0.56 U	< 0.53 U	**1.8**	< 0.50 U	< 0.51 U
4-Methylphenol	106-44-5	NL	< 0.56 U	< 0.56 U	< 0.53 U	< 0.56 U	< 0.50 U	< 0.51 U
Acetophenone	98-86-2	NL	**3.2**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Benzaldehyde	100-52-7	NL	**15**	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
bis(2-Ethylhexyl) phthalate	117-81-7	5	< 2.2 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.0 U	< 2.0 U
Total SVOCs			***225.6***	***2.6***	*ND*	***3.6***	*ND*	*ND*
PCBs (ug/L)								
Polychlorinated biphenyls	*1336-36-3*	*0.09*	< 0.25 U	< 0.27 U	< 0.27 U	< 0.28 U	< 0.26 U	< 0.25 U

Notes:

ug/L = micrograms per liter

Bold value = detected above reporting limit

Gray Highlighted values exceed NYSDEC Groundwater Guidance or Standard Value

NL = Not listed

ND = Not detected

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit. 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.

J = The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, likely to be biased high. The associated numerical value is the approximate concentration of the analyte in the sample.

J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.

R = The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 5-4
Interfacial/Surface Tension Data
3rd Avenue Yard
Brooklyn, New York

Phase Pair		Temperature, ^{o}F	Interfacial Tension, Dynes/centimeter
Sample ID/Phase	Sample ID/Phase		
MW-4-w/Water	Air	75	65.5
MW-4-o/NAPL	Air	75	26.2
MW-4-w/Water	MW-4-o/NAPL	75	15.9

Table 5-5
Viscosity, Density, and Specific Gravity Data
3rd Avenue Yard
Brooklyn, New York

Sample ID ID	Matrix	Temperature ^{o}F	Specific Gravity	Density, g/cc	Viscosity	
					centistokes	centipoise
MW-4-w	Water	70	1.002	1.000	1.02	1.02
		100	1.002	0.9948	0.702	0.699
		130	1.001	0.9873	0.531	0.524
MW-4-o	NAPL	70	0.853	0.8512	2.08	1.77
		100	0.8433	0.8375	1.53	1.28
		130	0.8376	0.8258	1.22	1.00

Appendix B

Quality Assurance Project Plan

Quality Assurance Project Plan

1.0 Project Scope

On behalf of the Consolidated Edison Company of New York, Inc. (Con Edison), AECOM has prepared this Quality Assurance Project Plan (QAPP) is to document planned investigative activities for the Brownfields Cleanup Program (BCP) Remedial Investigation (RI) and establish the criteria for performing these activities at a pre-determined quality. The investigation will be completed at the 3rd Avenue Yard Service Center, located in Brooklyn, New York (referred to hereafter as the Site). This QAPP refers to tables and figures in the RI Work Plan (RIWP).

1.1 Introduction

The Site is located in Brooklyn, New York. The Site occupies a city block (approximately 5.5 acres) and is bound to the north by 1st Street, to the south by 3rd Street, to the west by 3rd Avenue, and to the east by 4th Avenue. The Site is completely fenced with gated access points on 3rd and 1st Streets. A building used for storage (the Stores Building) is situated in the northern corner of the Site along 3rd Avenue and 1st Street. A fenced area for pole/cable reel storage is situated southeast of the Stores Building. A fuel tank pump island area consisting of two 2,500 gallon tanks (one for diesel and one for gasoline) is situated southeast of the fenced storage area along 1st Street. The Operations and Transportation Building (that includes an auto repair garage and offices) extends across the southeastern edge of the Site along the New Facility Building from 3rd Street to 1st Street. A waste treatment area used for the treatment of the flush truck wastes is situated in the southern corner of the Site along 4th Avenue and 3rd Street. The Site Location Map is provided in Figure 1-1 of the RIWP. The Site Layout is provided in Figure 2-2 of the RIWP.

1.2 Objectives

The goals for the overall RI are to:

- Install new monitoring wells to address the potential of off-site migration.
- Restore/replace damaged monitoring wells on-site for continued monitoring.
- Collect soil samples to address data gaps.
- Collect a light non-aqueous phase liquid (LNAPL) samples for characterization.

1.3 Scope of Work

The investigative work outlined in the RIWP includes the following field tasks:

- Locating underground utilities in the new investigation areas
- Community air monitoring during invasive activities
- Advancement of soil borings and collection of soil samples

- Rehabilitation and/or Installation of monitoring wells
- Sampling of LNAPL
- Surveying of new monitoring wells and soil sample points
- Investigation derived waste (IDW) management

The scope of work at the site is described in Section 5 of the RIWP. Samples will be collected from soil borings and monitoring wells. The samples will be analyzed for VOCs, SVOCs, metals, PCBs, pesticides and/or TPH.

1.4 Data Quality Objectives

Data Quality Objectives (DQOs) are qualitative and quantitative statements to ensure that data of known and appropriate quality are obtained during sampling and analysis activities. Data developed during the RI will be used to fulfill the overall objectives of the program. These objectives include:

- To evaluate the extent of contamination at the Site in soil to the NYSDEC Part 375-6 Soil Cleanup Objectives for Unrestricted Use (USCO) for open areas of the site;
- To evaluate the extent of contamination at the Site in soil to the NYSDEC Part 375-6 Soil Cleanup Objectives for Restricted Commercial Use (CSCO);
- To evaluate the extent of contamination in groundwater to NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards And Guidance Values and Groundwater Effluent Limitations;
- To characterize the LNAPL using fingerprint analysis and for waste characterization.

2.0 Project Organization

This RI will be completed for Con Edison by an environmental contractor (the Contractor), who will arrange for the drilling and analytical services and provide on-site field representatives to perform the soil logging, soil sampling, surveying, and groundwater sampling. The Contractor will also perform the data interpretation and reporting tasks.

2.1 Key contacts for this project are as follows:

2.1.1 Con Edison Project Manager:

John Cole

Telephone: (718) 204 4252

2.1.2 Contractor Project Manager:

To be determined.

2.1.3 Laboratory Representatives:

To be determined.

3.0 Data Quality Usability Objectives

3.1 Introduction

The quality assurance and quality control (QA/QC) objectives for all measurement data include precision, accuracy, representativeness, completeness, and comparability. These objectives are defined in following subsections. They are formulated to meet the requirements of the USEPA SW-846. All data will be provided in electronic format in accordance with DER-10.

3.2 Precision

Precision is an expression of the reproducibility of measurements of the same parameter under a given set of conditions. Specifically, it is a quantitative measurement of the variability of a group of measurements compared to their average value (USEPA,1987). Precision is usually stated in terms of standard deviation, but other estimates such as the coefficient of variation (relative standard deviation), range (maximum value minus minimum value), relative range, and relative percent difference (RPD) are common.

For this project, field sampling precision will be determined by analyzing coded duplicate samples (labeled so that the laboratory does not recognize them as duplicates) for the same parameters, and then, during data validation, calculating the RPD for duplicate sample results.

Analytical precision will be determined by the laboratory by calculating the RPD for the results of the analysis of internal QC duplicates and matrix spike duplicates. The formula for calculating RPD is as follows:

$$RPD = \frac{|V1 - V2|}{(V1 + V2)/2} \times 100$$

where:

RPD	=	Relative Percent Difference.
V1, V2	=	The two values to be compared.
|V1 - V2|	=	The absolute value of the difference between the two values.
(V1 + V2)/2	=	The average of the two values.

3.3 Accuracy

Accuracy is a measure of the degree of agreement of a measured value with the true or expected value of the quantity of concern (Taylor, 1987), or the difference between a measured value and the true or accepted reference value. The accuracy of an analytical procedure is best determined by the analysis of a sample containing a known quantity of material, and is expressed as the percent of the known quantity which is recovered or measured. The recovery of a given analyte is dependent upon the sample matrix, method of analysis, and the specific compound or element being determined. The concentration of the analyte relative to the detection limit of the analytical method is also a major

factor in determining the accuracy of the measurement. Concentrations of analytes which are close to the detection limits are less accurate because they are more affected by such factors as instrument "noise." Higher concentrations will not be as affected by instrument noise or other variables and thus will be more accurate.

Sampling accuracy may be determined through the assessment of the analytical results of field blanks for each sample set. Analytical accuracy is typically assessed by examining the percent recoveries of matrix spike compounds added to selected samples and laboratory blanks. Additionally, initial and continuing calibrations must be performed and accomplished within the established method control limits to define the instrument accuracy before analytical accuracy can be determined for any sample set.

Accuracy is normally measured as the percent recovery (%R) of a known amount of analyte, called a spike, added to a sample (matrix spike) or to a blank (blank spike). The %R is calculated as follows:

$$\%R = \frac{SSR - SR}{SA} \times 100$$

where:

%R = Percent recovery.

SSR = Spike sample result: concentration of analyte obtained by analyzing the sample with the spike added.

SR = Sample result: the background value, i.e., the concentration of the analyte obtained by analyzing the sample.

SA = Spiked analyte: concentration of the analyte spike added to the sample.

3.4 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter which is most concerned with the proper design of the sampling program (USEPA, 1987). Samples must be representative of the environmental media being sampled. Selection of sample locations and sampling procedures will incorporate consideration of obtaining the most representative sample possible.

Field and laboratory procedures will be performed in such a manner as to ensure, to the degree that is technically possible, that the data derived represents the in-place quality of the material sampled. Every effort will be made to ensure that chemical compounds will not be introduced into the sample via sample containers, handling, and analysis. Decontamination of sampling devices and digging equipment will be performed between samples. Analysis of field blanks, trip blanks, and method blanks will also be performed to monitor for potential sample contamination from field and laboratory procedures.

The assessment of representativeness also must consider the degree of heterogeneity in the material from which the samples are collected. Sampling heterogeneity will be evaluated during data validation through the analysis of coded field duplicate samples. The analytical laboratory will also

follow acceptable procedures to assure the samples are adequately homogenized prior to taking aliquots for analysis, so the reported results are representative of the sample received.

Chain-of-custody procedures will be followed to document that contamination of samples has not occurred during container preparation, shipment, and sampling.

3.5 Completeness

Completeness is defined as the percentage of measurements made which are judged to be valid (USEPA, 1987). The QC objective for completeness is generation of valid data for at least 90 percent of the analyses requested. Completeness is defined as follows for all sample measurements:

$$\%C = \frac{V}{T} \times 100$$

where:

%C = Percent completeness.

V = Number of measurements judged valid.

T = Total number of measurements.

3.6 Comparability

Comparability expresses the degree of confidence with which one data set can be compared to another (USEPA, 1987). The comparability of all data collected for this project will be ensured by:

- Using identified standard methods for both sampling and analysis phases of this project;
- Requiring traceability of all analytical standards and/or source materials to the USEPA or National Institute of Standards and Technology (NIST);
- Requiring that all calibrations be verified with an independently prepared standard from a source other than that used for calibration (if applicable);
- Using standard reporting units and reporting formats including the reporting of QC data;
- Performing a complete data validation on a all of the analytical results, including the use of data qualifiers in all cases where appropriate; and
- Requiring that all validation qualifiers be used any time an analytical result is used for any purpose.

These steps will ensure all future users of either the data or the conclusions drawn from them will be able to judge the comparability of these data and conclusions.

3.7 Laboratory Accreditation

The laboratory will have New York State Department of Health Environmental Laboratory Approval Program (ELAP) accreditation.

4.0 Field Activities

The field activities are described in the RIWP. The soil borings will be collected by hollow stem auger or direct push drilling techniques. The groundwater samples will be collected using low flow methods. The LNAPL sample will be collected with a disposable bailer. The locations and details for the samples are provided in the RIWP

4.1 Decontamination Area

A temporary decontamination area lined with polyethylene sheeting will be constructed on-site for decontaminating the drilling equipment. Water collected from the decontamination cleaning activities will be collected in 55-gallon drums and managed as IDW.

4.2 Equipment Decontamination

The following procedures will be used to decontaminate equipment used during the RI activities:

- All drilling equipment including the drilling rig, core barrels, bits, rods, tools, samplers, and tremie pipe will be cleaned with a high-pressure steam cleaning or hot water pressure washing unit, as appropriate, before beginning work.
- Tools, drill rods, and core barrel will be placed on sawhorses or polyethylene plastic sheets following steam cleaning or pressure washing. Direct contact with the ground will be avoided.
- All core barrels, rods, and tools will be decontaminated between each drilling location according to the above procedures.
- The back of the drill rig and all tools, core barrels, and rods will be decontaminated at the completion of the work and prior to leaving the site.

4.2.1 Sampling Equipment Decontamination

Suggested Materials:

- Potable water
- Phosphate-free detergent (e.g. Alconox^{TM})
- Distilled water
- Aluminum foil
- Plastic/polyethylene sheeting
- Plastic buckets and brushes

- Personal protective equipment in accordance with the health and safety plan

Procedures:

- Prior to sampling, all non-dedicated sampling equipment (bowls, spoons, interface probes, etc.) will be either steam cleaned or washed with potable water and a phosphate-free detergent (such as Alconox^{TM}). Decontamination may take place at the sampling location as long as all liquids are contained in pails, buckets, etc.

- The sampling equipment will then be rinsed with potable water followed by a deionized water rinse.

- Between rinses, equipment will be placed on polyethylene sheets or aluminum foil if necessary. At no time will washed equipment be placed directly on the ground.

- Equipment will be wrapped in polyethylene plastic or aluminum foil for storage or transportation from the designated decontamination area to the sampling location.

4.3 Sample Storage

Samples will be collected in clean jars/bottles provided by the laboratory with the proper preservatives. The samples will be placed directly in a cooler with ice after collection.

5.0 Analytical Methods/Quality Assurance Summary Table

Table 5-4 of the RIWP outlines the number and frequency of samples that will be collected for each matrix type. It also provides a summary of the analytical parameters that will be measured and the analytical methods that will be used. Table 5-3 of the RIWP summaries sample container volumes, types, preservation, and holding times. Table 5-4 of the RIWP summarizes the number and frequency of samples for field duplicates, field blanks, matrix spike and matrix spike duplicates for each matrix.

6.0 Data Validation Methods

The analytical data will be evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, USEPA-540-R-07-003, July 2008, with additional reference to USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, EPA 540/R-99-008, May 1999. Field duplicate RPD review and applicable control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996. A data validation report will be prepared to document the findings.

Appendix C

Health and Safety Plan

AECOM

Submitted to:
Consolidated Edison
Astoria, New York

Submitted by:
AECOM
Chestnut Ridge, NY
60431677/60431690
July 24, 2017

Site Specific Health and Safety Plan

Project:	Remedial Investigation Brownfields Cleanup Program (BCP) Third Avenue Yard Service Center
General Contractor:	AECOM Environment
HASP Preparer:	AECOM Environment
HASP Date:	February 23, 2016
Accepted By:	Con Edison Construction EHS&P;
Accepted on:	

AECOM

Submitted to:
Consolidated Edison
Astoria, New York

Submitted by:
AECOM
Chestnut Ridge, NY
60431677/60431690
July 24, 2017

HEALTH AND SAFETY PLAN

Remedial Investigation, Brownfields Cleanup Program

3rd Avenue Service Center - Brooklyn, New York

AECOM

Submitted to:
Consolidated Edison
Astoria, New York

Submitted by:
AECOM
Chestnut Ridge, NY
60431677/60431690
July 24, 2017

HEALTH AND SAFETY PLAN APPROVAL

This Health and Safety Plan (HASP) was prepared for employees performing a specific, limited scope of work. It was prepared based on the best available information regarding the physical and chemical hazards known or suspected to be present on the project site. While it is not possible to discover, evaluate, and protect in advance against all possible hazards, which may be encountered during the completion of this project, adherence to the requirements of the HASP will significantly reduce the potential for occupational injury.

By signing below, I acknowledge that I have reviewed and hereby approve the HASP for this project. This HASP has been written for the exclusive use of AECOM employees. The plan is written for specified site conditions, dates, and personnel, and must be amended if these conditions change.

_____

Modified By Date
Celeste Foster
Environmental Scientist

_____

Reviewed By Date
Claire Hunt, PG
Project Manager

_____

Reviewed By Date
Peter Gregory
NY Metro Area SH&E Manager

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Attachment G Con Edison-Corporate Environmental, Health and Safety Procedures

1.0 Introduction

1.1 Health and Safety Plan Applicability

This site specific Health and Safety Plan (HASP) has been developed by AECOM. It establishes the health and safety procedures required to minimize potential risk to AECOM personnel and subcontractor personnel involved with implementing the Remedial Investigation (RI) of groundwater impacts, soil impacts and light nonaqueous phase liquid (LNAPL) associated with the 3rd Avenue Service Center located at 222 1st Street Brooklyn, New York, owned and operated by the Consolidated Edison Company of New York (Con Edison). AECOM is performing these activities on behalf of Con Edison.

The provisions of this plan apply to AECOM personnel and contractor personnel who may potentially be exposed to safety and/or health hazards related to activities described in Section 3.0 of this document.

This HASP has been written to comply with the requirements of the Occupational Safety and Health Administration's (OSHA) Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120). All activities covered by this HASP must be conducted in compliance with this HASP and with all applicable federal, state, and local occupational health and safety regulations as well as Con Edison's contractor safety requirements. Personnel covered by this HASP who cannot or will not comply will be excluded from site activities.

In addition to this HASP, AECOM will comply with Con Edison procedures and policies. The following documents provided by Con Edison are attached to this HASP for reference as Attachments in Attachment G:

- Con Edison – Work Area Protection and Traffic Control Field Manual
- Con Edison – Corporate Environmental, Health and Safety Procedures, as applicable and included in the Attachments. This includes the three-document *Rules We Live By*, CEHSP A32.00 as well as CEHSP E08.02, CEHSP S05.03, CEHSP S12.00, CEHSP S17.01, and CEHSP A28.00.

AECOM direct hire contractor/subcontractor employees performing work that potentially exposes them to the chemical and physical hazards at the site shall comply with the OSHA safety requirements, and the requirements of this HASP. In addition, client and subcontractor employees are responsible to comply with health and safety procedures required by their employer and to work under their own HASP. Where such safety and health requirements are more stringent than the procedures specified herein, the subcontractors will comply with the more stringent requirements.

While on this project, AECOM will acknowledge Con Edison's "Rules We Live By" (CEHSP A32.00). AECOM employees and subcontractor workforce personnel will be trained on the applicable Rules We Live By, reporting procedure, and consequences. The "Rules We Live By" must be reinforced, when applicable, in job briefings. The "Rules We Live By" must be incorporated into the scope of safety field observations and inspections.

AECOM personnel, visitors, and contract employees are required to be present at a verbal full HASP review given by AECOM. The AECOM workforce (employees and subcontractors) will acknowledge this HASP as a recognition of the SH&E requirements that AECOM expects outside to uphold.

This plan will be distributed to each employee, including all subcontractor employees, involved with the proposed activities at the site. Each employee must sign a copy of the attached HASP Receipt and Acceptance Form (Attachment A).

1.2 Site Expectations – Calling A Time Out

The safety and health of on-site personnel and the general public, and the protection of the environment will take precedence over cost and schedule considerations for all project work. All AECOM personnel and contractor personnel have the authority to STOP WORK if they see a potential or actual hazard that may threaten the safety of people or the environment.

Similar to AECOM's requirements to STOP WORK, Con Edison has a specific program called "Time Out." The program encourages Con Edison's contractor employees to call a "Time Out" if they are unsure of how to proceed on a job because of a safety, health, and/or environmental (SH&E) concern and there is disagreement with site supervision as how to proceed.

Commitment to SH&E excellence requires that all work proceed only after it is safe and environmentally sound. The responsibility for ensuring that this takes place rests with every worker performing on Con Edison projects. Effectively meeting these responsibilities depends upon open communication between individuals and their supervisors prior to work beginning, and – in certain cases – after safety, health, and/or environmental issues are identified.

Upon calling a "Time Out," the Site Safety Officer (SSO) must be immediately notified and provided with information regarding the nature of the safety, health, or environmental concern. When a "Time Out" is called, work stops.

The SSO shall contact or meet with the worker with the intent of resolving the worker's concerns. If the concerns are resolved to the satisfaction of the worker and the supervisor, the "Time Out" is over and work proceeds. When a "Time Out" has been called, and the worker and supervisor resolve the issue themselves and the work proceeds, the SSO shall notify the Con Edison site representative. In all "Time Out" situations, the Con Edison project Environmental, Health and Safety (EH&S) representative will review the incident in a timely manner, determine if the "Time Out" has implications outside the specific project, and take steps, as appropriate, to communicate and work to prevent its reoccurrence.

If the concerns are not resolved to the satisfaction of the worker and/or the SSO, work does not proceed, and the following process shall be followed to resolve the concerns:

- The AECOM Area SH&E Manager (AASH&EM) and the Con Edison site representative are to be contacted to obtain assistance in resolving the concerns. Using his/her expertise, SH&E rules, regulations, and procedures, the AECOM ASH&EM and Con Edison site representative will attempt to resolve the matter. The Con Edison site representative may call upon his/her project EH&S representative and/or subject matter experts from other areas of the Company as necessary, including, but not limited to Engineering, Corporate EH&S, the work rules committee, or operations (see Con Edison CEHSP A28.00 – Calling a Time Out Attachment G).
- In emergency and other situations where extensive job and procedural reviews are necessary to resolve the concerns, an alternate work plan, where practical, will be implemented to complete the job pending resolution of the "Time Out." In this instance, before proceeding with any work prior to the resolution of this "Time Out," it is the responsibility of the AECOM Project Manager, the Con Edison site representative, and his/her project EH&S representative to ensure that the work will be performed in full accord with SH&E procedures, that all rules and regulations are followed and that the work also satisfactorily minimizes SH&E risks.

1.3 Organization/Responsibility

The implementation of health and safety at this project location will be the shared responsibility of the AECOM Project Manager (PM), the AECOM ASH&EM, the AECOM Project Site Safety Officer (SSO), and other AECOM and contractor personnel implementing the proposed scope of work.

1.3.1 AECOM Project Manager

The AECOM PM (Claire Hunt, P.E.) is responsible for ensuring that the requirements of this HASP are implemented. Some of the PM's specific responsibilities include:

- Assuring that all personnel to whom this HASP applies have received a copy of it;
- Providing the ASH&EM with updated information regarding conditions at the site and the scope of site work;
- Providing adequate authority and resources to the on-site SSO to allow for the successful implementation of all necessary safety procedures;
- Supporting the decisions made by the SSO and ASH&EM;
- Conducting incident investigations and preparing incident investigation reports; and,
- Maintaining regular communications with the SSO and, if necessary, the ASH&EM; and,
- Coordinating the activities of all AECOM subcontractors and ensuring that they are aware of the pertinent health and safety requirements for this project.

1.3.2 AECOM Area Safety, Health and Environment Manager

The AECOM ASH&EM (Peter Gregory) is the individual responsible for the interpretation and modification of this HASP. Modifications to this HASP which may result in less stringent precautions cannot be undertaken by the PM or the SSO without the approval of the ASH&EM. Specific duties of the ASH&EM include:

- Approving and amending the HASP for this project;
- Advising the PM and SSO on matters relating to health and safety on this site;
- Recommending appropriate personal protective equipment (PPE) and safety equipment to protect personnel from potential site hazards;
- Support incident investigations; and,
- Maintaining regular contact with the PM and SSO to evaluate site conditions and new information which might require modifications to the HASP.

1.3.3 AECOM Site Safety Officer

All AECOM field technicians are responsible for implementing the safety requirements specified in this HASP. However, one field technician will serve as the SSO. The SSO is responsible for enforcing the requirements of this HASP once work begins. The SSO has the authority to immediately correct all situations where noncompliance with this HASP is noted and to immediately stop work in cases where an immediate danger is perceived. Some of the SSO's specific responsibilities include:

- Interfacing with Con Edison's PM for this site, as well as 3rd Avenue Service Center representatives, when necessary;
- Securing daily work permits from Con Edison, if necessary;

- Assuring that all personnel to whom this HASP applies, including all subcontractors, have submitted a completed copy of the HASP receipt and acceptance form;
- Conducting the pre-entry briefing prior to beginning work and subsequent safety meetings as necessary and assuring that all personnel to whom this HASP applies, including all subcontractors, have attended and actively participate in this briefing and any subsequent safety meetings that are conducted during the implementation of the program;
- Maintaining a high level of health and safety consciousness among employees implementing the proposed activities;
- Performing the required air monitoring as described in Section 7.0 of this HASP;
- Procuring and distributing the PPE and safety equipment needed for this project for AECOM employees;
- Verifying that all PPE and health and safety equipment used by AECOM is in good working order;
- Verifying that the contractor has an adequate supply of PPE and safety equipment for the duration of the field effort;
- Notifying the PM of all noncompliance situations and stopping work in the event that an immediate danger situation is perceived;
- Monitoring and controlling the safety performance of all personnel to ensure that required safety and health procedures are being followed;
- Notifying the Con Edison PM in the event of a spill or the discovery of significant contamination during field activities;
- Notifying the Con Edison PM of any "Time Outs" that are called during the implementation of this program;
- Support incident investigations; and,
- Initiating emergency response procedures in accordance with Section 12.0 of this HASP.

1.3.4 On-Site Project Team Members

All members of the on-site project team are responsible for following the health and safety procedures specified in this HASP and for performing their work in a safe and responsible manner. Some of the specific responsibilities of the field personnel are as follows:

- Reading the HASP in its entirety prior to the start of on-site work;
- Submitting a completed HASP Acceptance Form (Attachment A) to the AECOM SSO prior to the start of work;
- Attending and actively participating in the required pre-entry briefing prior to beginning on-site work and any subsequent safety meetings that are conducted during the implementation of the program;
- Bringing forth any questions or concerns regarding the content of the HASP to the PM or the SSO prior to the start of work;
- Exercising Stop Work Authority and calling a "Time Out" when SH&E issues are identified;
- Notifying Con Edison PM in the event a "Time Out" is called;

- Reporting all incidents, injuries and illnesses, regardless of their severity, to the AECOM SSO and Con Edison PM; and,
- Complying with the requirements of this HASP and the requests of the SSO.

1.3.5 Contractors

Additionally, the contractors selected for this scope of work are responsible for:

- Preparing their own HASP to address the SH&E risks associated with their scope of work, and providing a copy of the HASP to the AECOM PM.
- Reading this HASP in its entirety prior to the start of on-site work;
- Attending and actively participating in the required pre-entry briefing prior to beginning on-site work and any subsequent safety meetings that are conducted during the implementation of the program;
- Ensuring, via daily inspections, that their equipment is in good working order;
- Operating their equipment in a safe manner;
- Providing AECOM with copies of safety data sheets (SDS) for all hazardous materials before they are brought on-site; and,
- Ensuring that all PPE, supplies, and materials needed to maintain compliance with the requirements of this HASP, as well as any reasonably anticipated changes to site conditions are available.

1.4 Management of Change/Modification of the HASP

1.4.1 Management of Change

The procedures in this HASP have been developed based on previous investigations conducted at the Site and the proposed investigation activities. Every effort has been made to address the chemical and physical hazards that may be encountered during the implementation of the proposed activities. However, unanticipated site-specific conditions or situations may occur during the implementation of this project. Also, AECOM and their subcontractor may elect to perform certain tasks in a manner that is different from what was originally intended due to a change in field conditions. As such, this HASP must be considered a working document that is subject to change to meet the needs of this dynamic project.

AECOM and their subcontractor will complete a Task Hazard Analysis (THA) when new tasks or different investigative techniques not addressed in the HASP are proposed. The use of new techniques will be reviewed and if new hazards are associated with the proposed changes, they will be documented on the THA form. An effective control measure must also be identified for each new hazard. THA forms will be reviewed by the SSO prior to being implemented. Once accepted by Con Edison, the completed forms will be reviewed with all field staff during the daily safety meeting.

1.4.2 HASP Modification

Should significant information become available regarding potential on-site hazards, it may be necessary to modify this HASP. All proposed modifications to this HASP must be reviewed and approved by the AECOM ASH&EM and accepted by Con Edison before such modifications are implemented. Any significant modifications must be incorporated into the written document as addenda and the HASP must be reissued. The AECOM PM will ensure that all personnel covered by this HASP receive copies of all issued addenda. Sign-off forms will accompany each addendum and must be signed by all personnel covered by the addendum. Sign-off forms will be submitted to the AECOM SSO, with a copy given to

the Con Edison representative on site. The HASP addenda should be distributed during the daily safety meeting so that they can be reviewed and discussed. Attendance forms will be collected during the meeting.

2.0 Site Description and History

2.1 Site Location and Description

The Con Edison 3rd Avenue Service Center is located at 222 1st Street Brooklyn, New York. The Site is located in a commercial and industrial area in Brooklyn, New York. The 3rd Avenue Service Center Site occupies approximately 5.5 acres, and is bounded to the north by First Street, to the south by Third Street, to the west by Third Avenue, and to the east by Fourth Avenue. The Site is situated approximately 900 feet east of the Gowanus Canal.

2.2 Previous Investigations

Extensive environmental investigation has been conducted at the Property, including an Underground Storage Tank (UST) closure assessment in 1998 and a recent Site-wide Investigation (SI) in 2015. More than a 100 soil borings were advanced and more than 40 groundwater monitoring wells were installed during the various site investigation phases. During these activities, over 140 soil samples and at least 80 groundwater samples were collected and sent to an analytical laboratory for analysis.

Based on analytical data for soil and groundwater samples collected from 1998 to present contaminants in include: VOCs, SVOCs, PCBs, metals and TPH. Summaries of the major investigation activities are described in the following sections. The location of the investigation areas is shown in Figure 2-3 of the Remedial Investigation Work Plan.

2.2.1 Underground Storage Tank (UST) Related Activities

In 1998 four USTs in the Former North UST and South UST areas and 535 tons of petroleum impacted soils were excavated and post-excavation samples were collected and analyzed for Toxicity characteristic leaching procedure (TCLP) VOCs and Resource Conservation and Recovery Act (RCRA) list of SVOCs to complete the UST closure process. Elevated VOCs were observed in post-excavation soil samples and groundwater samples which warranted further soil excavation and the collection of supplemental post-excavation samples. Site characterization activities were conducted in December 2000 in the vicinity of the Former North UST Area and the South UST Area. A total of 17 soil borings and 13 groundwater monitoring wells were installed in these areas. Samples were analyzed for VOCs, SVOCs, and metals. Based on the findings of this Site Characterization, it was recommended that a formal groundwater monitoring program and a corrective action plan be implemented. Routine groundwater sampling began in 2004.

In 2002 and 2003 fourteen USTs were removed and three PCB areas were excavated within the Former Employee Parking Lot. Fifteen test pits were excavated as part of pre-construction activities to further characterize historic, low-level PCB concentrations in subsurface soil at the south side of the former employee parking lot. Approximately 7,155 cubic yards (cy) of soil were excavated and disposed of as non-hazardous waste and 860 cy as hazardous waste. The waste classification as hazardous was based on elevated concentrations of PCBs or lead, and/or benzene. Based on the analytical results for endpoint soil samples the NYSDEC issued Con Edison a No Further Action letter in 2004 with respect to PCBs in soil and groundwater in this area.

In March 2005, Vacuum Enhanced Fluid Recovery (VEFR) was implemented as a corrective action at monitoring wells where free product or sheen had been detected including a well in the South UST Area (MW-14S) and wells in the Former Employee Parking Lot. Thirty-one VEFR events (monthly and quarterly, post June 2008) were performed at the site. The VEFR activities were concluded in June 2011 in response to the absence of recoverable products.

Soil and groundwater delineation and groundwater monitoring (monthly gauging and quarterly sampling) has been conducted since 2004 within the Former North UST and South UST Areas. To date, nine monitoring wells including three off-site wells have been installed in these areas. These wells have been subjected to periodic groundwater sampling events with the latest rounds in September 2015 and May 2016. The results of these sampling events will be finalized and provided to the Department.
Three subsequent supplemental site investigation work plans were developed and implemented between 2010 and 2012. In accordance with the August 2010 Soil Delineation Work Plan Addendum, a total of eight soil borings in the South UST Area were advanced to delineate the extent of free-phase petroleum product and impacted soils around monitoring well MW-14S. Soil analytical results indicated the need for further delineation. Subsequently, a Remedial Alternative Evaluation and Remedial Action Work Plan, (RAWP) was developed in February 2012, and a Pre-Design Investigation (PDI) was conducted to complete delineation. The results of the PDI were reported to NYSDEC in February 2013 and the implementation of the RAWP is pending.

2.2.2 Demolition Area Work and Associated Investigations

In 2010 as part of Con Edison's redevelopment activities, three buildings located on the western side of the Property were demolished. During demolition, petroleum-impacted soil and free product were detected. An investigation to delineate and characterize the soil and groundwater was initiated in January 2011. Subsequent Remedial Investigation field activities were performed in 2012. The investigation was conducted in two areas referred to as the Open Excavation Area and the Drywell Area. Potential impacts to soil and groundwater were evaluated by excavating three test pits, advancing twelve soil borings and installing three monitoring wells. The soil and groundwater samples were analyzed for VOCs, SVOCs and PCBs. The results of the investigation revealed volatile organic VOCs and SVOCs in soil and groundwater above their applicable NYSDEC remediation standards.

2.2.3 2015 Site-Wide Investigation

A Site-Wide Investigation (SI) was performed from 2013 through 2015. The SI was conducted to further evaluate the extent of impacts previously identified in the Demolition Area and the South UST Area, as well as along segments of the perimeter of the property. The initial SI (SI - Phase 1) was conducted from May through August 2013 and December 2013 through February 2014. A supplemental site investigation (SI - Phase 2) designed to augment the existing information and fill in data gaps was conducted from July through October 2015. During both phases twelve shallow grab soil samples were collected from the 0 to 0.5 and 0.5 to 1 ft bgs intervals. These samples were analyzed for VOCs, SVOCs, PCBs, and metals. Additionally, 31 subsurface soil borings were advanced with continuous sampling beginning at 5 ft bgs. Groundwater monitoring wells were installed at 31 locations. The wells were completed as twelve shallow and deep pairs and seven lone deep wells. The findings from this investigation were summarized in the 2016 Site Wide Investigation Report that was submitted to the NYSDEC

2.2.4 2015 Re-Paving Project

In 2015 Con Edison began a project to re-pave the main parking lot of the Property. The re-paving activities included stripping the asphalt and 8 inches to 16 inches of underlying soils, before re-paving the surface. To minimize disruption to the parking lot activities, the re-paving had five phases. During routine waste disposal testing PCBs were detected in the soils. Thereafter all the excavated material was handled as hazardous waste according to protocols regulated by the Toxic Substance Control Act (TSCA).Samples collected from excavated materials prior to the confirmation of PCBs were collected as composite samples (i.e., the Phase 1, 2 and 3 areas). To the extent soil excavation was conducted in other phase areas (as opposed to just asphalt milling and re-paving), samples were collected as discrete grab samples. The endpoint sampling results indicated that soil containing elevated concentrations of PCBs was left in place. The surface has since been re-paved.

3.0 Scope of Work

The scope of the proposed Remedial Investigation is to:

- Collect soil samples down to 35 feet bgs.
- Install temporary monitoring wells.
- Restore damaged wells.
- Collect groundwater elevation readings and samples.
- Collect light non-aqueous phase liquid (LNAPL) samples

3.1 Field Tasks

The proposed investigative work includes the following field tasks:

- Locating underground utilities in the new investigation areas by a utility locator subcontractor;
- Advancement of soil borings by a drilling subcontractor
- Installation of monitoring wells be a drilling subcontractor.
- Collection of soil samples.
- Collection of groundwater samples and gauging data.
- Surveying of the site, including new boring/sample locations; and
- Management of Investigation-Derived Waste (IDW).

4.0 Chemical Hazard Assessment and Control

4.1 Chemical Hazards Associated with USTs

The former USTs contained gasoline and lead. Based on previous investigations in the former UST areas, it appears that soils and groundwater are impacted with petroleum hydrocarbons (gasoline), including benzene, toluene, ethylbenzene and xylene (BTEX) compounds.

4.1.1 Petroleum hydrocarbons

Petroleum hydrocarbons such as gasoline and diesel fuel may include a wide range of substances, some of which may pose substantive human health hazards. The aromatic volatile petroleum hydrocarbons including BTEX compounds are generally of greater concern, particularly because they are more likely to exist in the worker's breathing zone. In moderate exposures, BTEX compounds all produce similar effects including headache, narcosis, and anesthesia. Among the aromatic volatile petroleum hydrocarbons, benzene is the primary substance of concern because of its status as a known carcinogen and association with leukemia and aplastic anemia in chronic exposure situations.

4.1.2 Metals

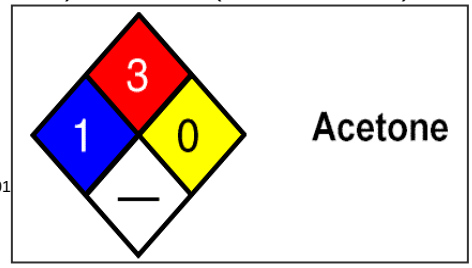
Lead is a common component of urban fill and soils present at industrial sites, such as former UST sites. In general, the inhalation of metal dusts is irritating to the upper respiratory tract and nasal mucous membranes. Most metal dusts may cause dermatitis and/or eye irritation. The early symptoms of lead poisoning, as a result of overexposure (either through ingestion or inhalation) include fatigue, sleep disturbance, headache, aching bones and muscles, digestive irregularities, abdominal pains, and decreased appetite. Chronic overexposures to lead affect the CNS and male and female reproductive systems. Lead has also been identified as a fetotoxin. The OSHA PEL for inorganic lead is 50 micrograms per cubic meter (ug/m^3).

4.2 Polychlorinated Biphenyl (PCB)

Polychlorinated biphenyls are a series of technical mixtures consisting of many isomers and compounds that vary from mobile oily liquids, to white crystalline solids, to hard non-crystalline resins. PCB oils are typically used in heat transfer applications, hydraulic fluids and lubricants. Technical products vary in composition and in the degrees of chlorination. Toxicity increases with the degree of chlorination. Dermal contact with liquid PCBs may produce skin irritation or rash. Prolonged or repeated skin contact may cause dermatitis or "chlorance."

4.3 Hazardous Substances Brought On-Site by AECOM and Contractors

A safety data sheet (SDS) must be available for each hazardous substance that AECOM and its contractors bring on the property. A SDS for each substance that AECOM or its subcontractors bring on the property must be provided to Con Edison at least 14 days prior to start of field work and shall be on site during field work. This includes solutions/chemicals that will be used to decontaminate sampling equipment and calibration gases for the screening instrumentation. The SDS for Alconox, which is one of the decontamination solutions that AECOM will use for this program, is provided in Attachment C. The SDS for the isobutylene-in-air calibration gas is also presented in Attachment C. Also included in Attachment C are the SDS's for Simple Green (decontamination solution), diesel fuel (fuel for vehicles), gasoline (for saw cutter and vehicles), sand, bentonite, and grout (for borehole completion).



In addition, all containers of hazardous materials must be labeled in accordance with OSHA's Hazard Communication Standard and Globally Harmonized System (GHS). Either the original manufacturer's label, NFPA 704M label specific for the material (as shown at the right) or GHS label is considered to be an acceptable label.

4.4 Other Chemical Hazards

4.4.1 Exhaust Gases Associated with Indoor Drilling

Soil borings are being advanced within the operations and transportation building. As such, the build-up of exhaust gases from gasoline or diesel-powered internal combustion engines is a concern. Carbon monoxide is the most toxic of the exhaust gases. Carbon monoxide is an asphyxiant in that it prevents hemoglobin from binding with oxygen. Symptoms of acute carbon monoxide poisoning include intense headache, dizziness, nausea, and collapse. Initially, the victim is pale; later the skin and mucous membranes may turn cherry-red in color. The OSHA PEL for carbon monoxide is 35 ppm, as an 8-hour, TWA, with a ceiling value of 200 ppm. The ACGIH recommends a TLV of 25 ppm, as an 8-hr TWA. The ACGIH recommendation will be applied for this site work.

The driller will utilize a scrubber attachment during indoor drilling.

4.4.2 Painted Surfaces

The floor of the operations and transportation building is painted. Con Edison assumes that all paint is lead-based paint. To avoid the potential for generating lead dusts, the paint over each proposed boring location will be removed prior to drilling through the floor. Where present, the paint will be removed by Con Edison prior to commencement of the drilling activities.

If paint has not been removed from the floor prior to work, dust generated by drilling through the surface will be mitigated by utilizing poly sheeting and/or duct tape in conjunction with a coring bit and application of water. Additionally, air samples will be collected using personal air pumps drawing in air at 2.5 – 5 Liters per minute. The samples will be analyzed for lead. 3 samples will be collected in total.

- A personal air sample will be collected from AECOM personnel performing oversight of the aforementioned activities.
- A sample will be collected from the work area.
- A sample will be collected from outside of the work area.

4.5 Chemical Exposure and Control

The proposed investigation locations were selected to target areas most likely to contain gasoline residuals or delineate the extent of previously identified soil impacts. As such, the field team should be prepared to encounter contamination during the proposed investigation of the property. The most likely routes of potential chemical exposure during the implementation of this field program include the following:

- Inhalation of VOC vapors and impacted dusts during hand clearing and soil boring advancement;
- Direct dermal contact with potentially contaminated soils and groundwater during sampling; and
- Direct dermal contact with LNAPL (if encountered) during well gauging prior to decommissioning, the collection of LNAPL samples and/or LNAPL-saturated soil samples.

4.5.1 Chemical Exposure Control

The potential chemical hazards associated with the proposed activities can be controlled in several ways, including:

- Direct-reading air monitoring instrumentation will be used, as described in Section 7.0 of this HASP, to determine the concentration of VOC vapors that may be present in the work area and in the employee's breathing zone during intrusive site activities as described above. If necessary, respiratory protection, as defined in Section 8.1 of this HASP, may be donned to control employee exposure to the vapors of VOCs.
- Dusts from contaminated soils may be generated during intrusive site activities. If necessary, a light mist of water can be applied to the borehole or excavation to suppress dust generation. A MIE Data-Ram total dust monitor, or its equivalent (TSI Dustrak), will be used to monitor the effectiveness of these engineering controls and to determine if respiratory protection is required.
- Polyethylene sheeting will be placed over any soil stockpiles to prevent vapor release as well as dust generation.
- To avoid direct dermal contact with contaminated media, protective clothing, as described in Table 8-1, will be required when handling and collecting samples.
- Although highly unlikely, exposure to all of the contaminants of concern may occur via ingestion (hand-to-mouth transfer). The decontamination procedures described in Section 10.0 address personal hygiene issues that will limit the potential for contaminant ingestion.

5.0 Biological/ Environmental Hazards and Controls

During the course of work project personnel are at risk of being exposed to poisonous plants, insects, spiders and snakes. No vegetation or tick habitat was observed on site.

5.1 Wasp and Bees

Wasps (hornets and yellow-jackets) and bees (honeybees and bumblebees) are common insects that may pose a potential hazard to the field team if work is performed during spring, summer, or fall. Bees normally build their nests in the soil. However, they use other natural holes such as abandoned rodent nests or tree hollows. Wasps make a football-shaped, paper-like nest either below or above the ground. Yellow-jackets tend to build their nests in the ground but hornets tend to build their nests in trees and shrubbery. To avoid bees and wasps:

- Continually survey the work area to monitor for the presence of bees, wasps and hornets. If a congregation of bees, wasps or hornets are observed employees will maintain a safe distance from the area and look for signs that a nest is nearby. If a nest is suspected the area will be avoided, and work zones will be adjusted as necessary.
- If you are going to be in an area where disturbing a nest is likely, wear long pants and a long sleeved shirt. Insect repellent applied to your skin or clothing will not deter these stinging insects.
- Wear light colored clothing.
- Remain as calm as possible if a bee or wasp lands on your skin.
- If you don't want to wait for it to leave, gently and slowly brush it away.
- It is best not to wear perfume, cologne, or other scented soaps or scented shampoos as this attracts bees and wasps.
- Never swing, strike, or run rapidly away since quick movement often provokes attack and painful stings.
- Restrain from throwing rocks or spraying nests with water.
- Avoid creating loud noises and disturbance near the nest.
- When a wasp or a bee stings a person, it injects a venomous fluid under the skin. The venom causes a painful swelling that may last for several days.
- Gently scrape the area of the bite using a blunt object like a fingernail or a credit card to remove the stinger. If removed within 15 seconds of the sting, the severity of the sting is reduced.
- Try not to rub or scratch the sting site after the stinger is removed.
- Wash the sting site with soap and water.
- Apply a cold or ice pack wrapped in cloth for a few minutes.
- If you develop hives, difficulty breathing or swallowing, wheezing, or similar symptoms of allergic reaction, SEEK MEDICAL ATTENTION IMMEDIATELY. People with known allergies to insect stings should NEVER work alone.
- A person with a history of severe allergic reaction to an insect sting may be advised by their physician to carry an insect sting allergy kit to counteract the allergic reaction whenever they

may encounter stinging insects. Also they should consider wearing a medical ID bracelet and notify others on the field team.

5.2 Sun Exposure

Employees are encouraged to liberally apply sunscreen, with a minimum sun protection factor (SPF) of 15, when working outdoors to avoid sunburn and potential skin cancer, which is associated with excessive sun exposure to unprotected skin. Additionally, employees should wear hats with brims to provide shade to the head and neck as well as ANSI-rated safety glasses that offer protection from UVA/UVB rays.

5.3 Thermal Stress

Heat and cold stress may vary based upon work activities, PPE/clothing selection, geographical locations, and weather conditions. To reduce the potential of developing heat/cold stress, be aware of the signs and symptoms of heat/cold stress and watch fellow employees for signs of heat/cold stress.

5.3.1 Heat Stress

Types of Heat Stress

Heat related problems include heat rash, fainting, heat cramps, heat exhaustion, and heat stroke. Heat rash can occur when sweat isn't allowed to evaporate; leaving the skin wet most of the time and making it subject to irritation. Fainting may occur when blood pools to lower parts of the body and, as a result, does not return to the heart to be pumped to the brain. Heat-related fainting often occurs during activities that require standing erect and immobile in the heat for long periods of time. Heat cramps are painful spasms of the muscles due to excessive salt loss associated with profuse sweating.

Heat exhaustion results from losing large amounts of fluid, and from losing excessive amounts of salt through profuse sweating. The skin will be clammy and moist, and the affected individual may exhibit giddiness, nausea, and headache.

Heat stroke occurs when the body's temperature regulatory system has failed. The skin is hot, dry, red, and spotted. The affected person may be mentally confused and delirious. Convulsions could occur. Early recognition and treatment of heat stroke are the only means of preventing brain damage or death. A person exhibiting signs of heat stroke should be removed from the work area to a shaded area. The person should be soaked with water to promote evaporation. Fan the person's body to increase cooling.

Increased body temperature and physical discomfort also promote irritability and a decreased attention to the performance of hazardous tasks.

Early Symptoms of Heat-Related Health Problems:

- Decline in task performance;
- Lack of coordination;
- Decline in alertness;
- Unsteady walk;
- Excessive fatigue;
- Reduced vigilance;

- Muscle cramps; and
- Dizziness.

Susceptibility to Heat Stress Increases Due To:

- Lack of physical fitness;
- Lack of acclimation;
- Increased age;
- Dehydration;
- Obesity;
- Drug or alcohol use;
- Sunburn; and
- Infection.

People unaccustomed to heat are particularly susceptible to heat fatigue. First timers in PPE need to gradually adjust to the heat.

The Effect of Personal Protective Equipment

Sweating normally cools the body as moisture is removed from the skin by evaporation. However, wearing certain personal protective equipment (PPE), particularly chemical protective coveralls (e.g., Tyvek), reduces the body's ability to evaporate sweat and thereby regulate heat buildup. The body's efforts to maintain an acceptable temperature can, therefore, become significantly impaired by the wearing of PPE.

Measures to Avoid Heat Stress

The following guidelines should be adhered to when working in hot environments:

- Review signs and systems of heat stress with site personnel;
- Establish work-rest cycles (short and frequent are more beneficial than long and seldom);
- Identify a shaded, cool rest area;
- Rotate personnel and alternate job functions;
- Have available water and sports drinks;
- Water intake should be equal to the sweat produced. Most workers exposed to hot conditions drink fewer fluids than needed because of an insufficient thirst. Do not depend on thirst to signal when and how much to drink. For an 8-hour work day, drink 50 ounces of fluids;
- Replenish lost electrolytes through sport drinks and similar products.
- Save the most strenuous tasks for non-peak heat hours, such as the early morning or night;
- Avoid alcohol during prolonged periods of heat. Alcohol will cause additional dehydration; and
- Avoid double shifts and/or overtime.

The implementation and enforcement of the above-mentioned measures will be the joint responsibility of the AECOM project manager, SSO, and field personnel. Potable water and fruit juices should be made available each day for the field team.

5.3.2 Cold Stress

Types of Cold Stress

Cold injury is classified as either localized, as in frostbite, frostnip or chilblain, or generalized, as in hypothermia. The main factors contributing to cold injury are exposure to humidity and high winds, contact with wetness, and inadequate clothing.

The likelihood of developing frostbite occurs when the face or extremities are exposed to a cold wind in addition to cold temperatures. The freezing point of the skin is about 30° F. The fluids around the cells of the body tissue freeze, causing the skin to turn white. This freezing is due to exposure to extremely low temperatures. As wind velocity increases, heat loss is greater and frostbite will occur more rapidly.

Symptoms of Cold Stress

The first symptom of frostbite is usually an uncomfortable sensation of coldness, followed by numbness. There may be a tingling, stinging, or aching feeling in the affected area. The most vulnerable parts of the body are the nose, cheeks, ears, fingers, and toes.

Symptoms of hypothermia, a condition of abnormally-low body temperature, include uncontrollable shivering and sensations of cold. The heartbeat slows and may become irregular, the pulse weakens, and the blood pressure changes. Pain in the extremities and severe shivering can be the first warning of dangerous exposure to cold.

Maximum severe shivering develops when the body temperature has fallen to 95° F. This must be taken as a sign of danger, and exposure to cold must be immediately terminated. Productive physical and mental work is limited when severe shivering occurs.

Methods to Prevent Cold Stress

When the ambient temperature, or a wind chill equivalent, falls to below 40° F (American Conference of Governmental Industrial Hygienists recommendation), site personnel who must remain outdoors should wear insulated coveralls, insulated boot liners, hard hat helmet liners, and insulated hand protection. Wool mittens are more efficient insulators than gloves. Keeping the head covered is very important, since 40% of body heat can be lost when the head is exposed. If it is not necessary to wear a hard hat, a wool knit cap provides the best head protection. A facemask may also be worn.

Persons should dress in several layers rather than one single heavy outer garment. The outer piece of clothing should ideally be windproof and waterproof. Clothing made of thin cotton fabric or synthetic fabrics, such as polypropylene, is ideal, since it helps to evaporate sweat. Polypropylene is best at wicking away moisture while still retaining its insulating properties. Loose-fitting clothing also aids in sweat evaporation. Denim is not a good protective fabric. It is loosely woven, which allows moisture to penetrate. Socks with high wool content are best. If two pairs of socks are worn, the inner sock should be smaller and made of polypropylene, or a similar type of synthetic material that wicks away moisture. If clothing becomes wet, it should be taken off immediately and a dry set of clothing put on.

If wind conditions become severe, it may become necessary to shield the work area temporarily. The SSO and the PM will determine if this type of action is necessary. Heated break trailers or a designated

area that is heated should be available if work is performed continuously in the cold at temperatures, or equivalent wind chill temperatures, of 20° F.

Dehydration occurs in a cold environment and may increase the susceptibility of the worker to cold injury, due to significant change in blood flow to the extremities. Drink plenty of fluids, and limit the intake of caffeine.

5.4 Weather

5.4.1 Severe Weather

Prior to mobilization the project manager or field team personnel should be cognizant of the long range and short range weather forecast for the region in which they will be working. If severe weather is forecasted, work should be temporarily postponed until the weather is more favorable. Daily, field team members should check the weather forecast for inclement or severe weather. A weather radio or radio set on an AM channel is the best sources for weather information and weather alerts. Smartphones may also be set to provide severe weather alerts and notify project personnel of the need to Stop Work. On the internet the Storm Prediction Center's web page can be check for alerts and warnings. http://www.spc.noaa.gov/products/wwa/.

All four seasons can bring about severe weather to the region, ranging from extremely cold temperatures to high winds and thunder and lightning storms. Hurricanes have been known to hit the northeast and, while rare, tornados do occur in the northeast.

In the event of severe weather is forecast the following steps should be taken:

- Temporarily stopped and secured the site.
- Seek shelter in a vehicle or indoor location.
- Stop all work and seek a safe area when lightning is within range of the site (by the time you hear thunder, you are ALREADY within lightning range). Safe areas include low areas (NOT subject to flash floods), grounded metal structures, or vehicles. Stay indoors for 30 minutes after hearing the last clap of thunder and/or seeing the last flash of lightning.
- Shut down generators and all electrical motors in an orderly manner to protect the equipment from electrical surges and abrupt power loss.
- Move all personnel off crawler-type equipment and boom equipment. Lower booms.
- When working in low areas, be alert for the potential of flash flooding and plan a route to higher ground.

6.0 Physical Hazards and Controls

The general procedures in this HASP have been developed based on the work plan prepared for the proposed activities. While every effort has been made to address the potential physical hazards that may be encountered during the implementation of the proposed site characterization, unanticipated site-specific conditions or situations may occur. Also, the contractor may elect to perform certain tasks in a manner that is different from what was originally intended due to a change in field conditions. As such, the contractor will complete a THA when new tasks or different techniques not addressed in the HASP are proposed. The use of new techniques will be reviewed and if new hazards are associated with the proposed changes, they will be documented on the THA form.

6.1 Back Safety

Using the proper techniques to lift and move heavy pieces of equipment is important to reduce the potential for back injury. The following precautions should be implemented when lifting or moving heavy objects (over 42 pounds):

- Bend at the knees, not the waist. Let your legs do the lifting;
- Do not twist while lifting;
- Bring the load as close to you as possible before lifting;
- Be sure the path you are taking while carrying a heavy object is free of obstructions and slip, trip, and fall hazards;
- Use mechanical devices to move objects that are too heavy to be moved manually; and,
- If mechanical devices are not available, ask another person to assist you.

6.2 Concrete and Asphalt Cutting

Cutting and coring concrete and asphalt can involve numerous hazards, including the noise generated as a result of the tools used. Adequate hearing protection is necessary when conditions outlined in Section 6.9 and below are encountered. Tools used, which can include drills and saws, must be appropriately guarded to prevent hands, PPE, and other objects from being caught-up in the moving parts and drawing employees in. (Silica) Dust may also be generated while cutting concrete and either respiratory protection or dust suppression will need to be utilized to prevent exposure. Additional consideration must be given to chemical hazard concerns that may exist in the materials underlying the concrete. Concrete cutting precautions are as follows:

- Saw cutting is prohibited directly over any oil filled cable piping or their oil return piping (also known as “oil-o-static” pipes/feeders);
- Inspect the saw to ensure all guards are in place and that the correct blade is attached to the saw;
- Use the following PPE: hard hat, safety glasses with side shield under a full face shield, hearing protection, steel toed footwear with metatarsal guards, and gloves;
- Start saw on the ground;
- Clear work area of unnecessary personnel and objects;

- Stand to the side of the saw, while maintaining an upwind position;
- Maintain a water stream to reduce dust and extend the life of the saw blade; and
- Leave saw blade in the cut until it comes to a complete stop. Then lift it out.

6.2.1 Pavement Breakers

Pavement breakers can be pneumatic, electric, or hydraulic powered. Whatever the power source of the pavement breaker, they require a point (bit) to break pavement with great force. The common hazards associated with pavement breakers are: trips over hoses/cords, vibration, noise, flying objects, and struck by the point. Pavement breaking precautions are as follows:

- Inspect pavement breaker and power source before use;
- Ground Fault Current Interrupter (GFCI) is required for electric pavement breakers;
- Inspect bit to ensure that it is the correct bit for the job and that it is secured in the tool;
- Ensure that hoses are connected and that compressed air hose connections are pinned and whip checks are used. Hose whip prevention chains are to be attached from power-pack to hose, hose to hose, and hose to tool;
- Use the proper point for the material to be broken. Remember to use rock point for rock, spade point for asphalt, and chisel point for concrete. Never use a broken or cracked point;
- Use the following PPE: hard hat, safety glasses with side shield, hearing protection, steel toed footwear with metatarsal guards, and gloves;
- If the jack hammer bit is extended into soil, then the operator must wear 1 kV dielectric gloves, currently tested and stamped, with leather protective gauntlets over the gloves;
- Clear work area of unnecessary personnel and objects;
- To avoid back strain or injury lift the tool (jackhammer) properly by using the legs;
- Operate the tool at a slight angle with it leaning back towards you, to prevent the point from getting stuck in the material and the tool from getting out of control; and
- Shut off the power supply and relieve pressure from the supply hose before changing tool points. Do the same when leaving the jackhammer unattended.

6.3 Construction Equipment

The use of construction equipment, such as loaders, excavators, dump trucks, compactors, drill rigs, etc. pose the potential hazard of employees being struck by the equipment or caught between the equipment and a fixed object such as a wall.

Use of construction equipment requires all personnel to wear steel-toed boots, hard hat, high visibility reflective garment, and safety eyewear. Personnel shall not remain in the vicinity of construction equipment unless it is required for their work responsibilities. AECOM personnel are to remain clear of operating heavy equipment to the extent feasible. When employees must work near construction

equipment, eye contact and clear communication must be maintained. When working around construction equipment, employees must:

- Make sure that the operator/driver is aware of your presence/activities;
- Stay in the operator's line of sight, don't work in his/her blind spot;
- Approach areas where equipment is operating from a direction visible to the operator;
- Be aware of the swing radius of the excavator and sudden movement of equipment;
- Do not walk or work underneath loads handled by digging equipment;
- Stand away from trucks being loaded or unloaded to avoid being struck by any spillage or falling materials; and
- Cell phones, text messaging, and/or the use of personal headsets are prohibited when working near construction equipment.

Additionally, when samples are collected from an excavator bucket, the collector must follow a communication and work protocol to ensure that the equipment operator is aware of their presence. The bucket shall be lowered to the ground while samples are collected and during sample collection the equipment operator will remove their hands from the controls. It is preferred that the equipment be completely turned off and de-energized while sample collection occurs. The operator will not re-engage the equipment until the sample collector has left the area.

6.4 Drill Rigs

The hazards associated with drill rigs are caught by or between moving or rotating parts, struck by the movement of the drill rig or material being handled, contact with above ground and below ground utilities, and slips, trips, and falls on slippery surfaces, hose lines, and drilling material.

AECOM employees are not authorized to operate any type of mobile drill rig, and shall stay out of the path of travel of a drill rig and away from rotating and moving parts of a drill rig when it is operating.

Prior to drilling, it is important, and the law, that underground utilities be identified by calling Dig Safely NY 800-272-4480 to have buried utilities identified and located on public property; Public Utility Locate Services typically delineate underground utilities on public property. Ground disturbance activities on private property should utilize private utility locate services or work site knowledge (As-Built Diagrams) soft digging techniques, etc., to identify buried utilities. It is also important to identify aboveground utilities, such as electrical lines, cable television or telephone wires that may be in the vicinity of the proposed bore hole or path of travel of the drill rig. The minimum safe clearance distance from above ground utilities such as electrical wires is 20 feet. Drill rig precautions are as follows:

- The drill rig and components shall be inspected daily by the drill rig operator;
- Wheels of all drill rigs and other heavy vehicles or machinery will be chocked when these vehicles are not in motion;
- Except for the driller and helper, all personnel will stay away (e.g., 15+ ft) from the rig when it is operating unless it is necessary to be near it;
- If required to approach the drill rig for the collection of samples or down-hole observations the drill rig must be taken out of gear to stop movement of boring tools. Only then can you approach the rig;

- Loose fitting clothing must be secured when in the vicinity of drilling operations;
- The drill rig operator shall perform a visual safety check of the drill rig daily and after it has been moved to a new location;
- Cell phones, text messaging, and/or the use of personal headsets is prohibited when working on or near a drill rig;
- Borehole will be immediately backfilled upon completion of work;
- If a borehole is to be left open, the opening will be marked with "Caution-Open Trench" tape. If necessary, metal plates will be placed over the borehole to permit vehicular crossing;
- As necessary, hearing protection shall be used when near drilling operations; and
- Personnel should avoid walk through drilling mud and crossing over hoses and other drilling material.
- All drill rigs and other machinery with exposed moving parts must be equipped with an operational emergency stop device. Drillers and geologists must be aware of the location of this device. This device must be tested prior to job initiation and periodically thereafter;
- No person shall climb the drill mast while tools are rotating;
- No person shall climb the drill mast without the use of ANSI-approved fall protection (approved harness, lanyards and a fall protection slide rail) or portable ladder which meets the requirements of OSHA standards.

6.4.1 Geoprobe™ Hazards

Use of the Geoprobe™ System to collect soil samples will require all personnel in the vicinity of the operating unit to wear steel-toed boots, hardhats, hearing protection and safety eyewear. Personnel shall not remain in the vicinity of operating equipment unless it is required for their work responsibilities. Additionally, the following safety requirements must be adhered to:

- A remote vehicle ignition is located on the control panel of the Geoprobe™ unit. This allows the operator to start and stop the vehicle engine from the rear. This device must be tested prior to job initiation and periodically thereafter. All employees should be aware of how to access and operate the rear ignition.
- The driller must never leave the controls while the probe is being driven
- Drillers, helpers and geologists must secure all loose clothing when in the vicinity of drilling operations
- The Geoprobe™ vehicle shall not be moved any distance with the probe in the extended position.
- Check for clearance at roof of the vehicle before folding the Geoprobe™ out of the carrier vehicle.
- Be sure the parking brake is set before probing.
- Never allow the derrick foot to be lifted more than 6" off of the ground surface.
- Deactivate hydraulics when adding or removing probe rods, anvils or any tool in the hammer.
- Verify that all threaded parts are completely threaded together before probing.

6.5 Driving Safety

Drivers must be licensed to drive the class of vehicle they are operating and trained in defensive driving. Only AECOM personnel may drive AECOM vehicles or vehicles rented for AECOM business; client, subcontractor, or other work-related personnel may ride. Drivers and passengers must comply with all traffic laws and posted signs, and will not operate a vehicle if under the influence of impairing medication, alcohol, or any other substance.

Make sure that the following basic safe driving practices are followed at all times while working on this project:

- Always wear a seat belt while operating a motor vehicle or while traveling as a passenger;
- Obey speed limits and local traffic laws at all times;
- Obtain proper directions to the site in advance and take the route that is most likely to be free of known traffic hazards (e.g., congestion, construction, etc.) and that avoids travel through potentially dangerous neighborhoods;
- The use of all mobile communication devices (MCDs) while driving is strictly prohibited. MCDs include all hand-held or hands-free devices, including all mobile phones and other portable electronic devices that cause driver distraction such as tablets (e.g., iPads), PDAs, pagers, iPods, MP3s, DVD players, laptops, etc. Employees shall not use a personal or company MCD while driving a company vehicle; use a company MCD while driving a personal vehicle; or use a personal MCD while driving a personal vehicle on company business. Driving includes the time spent in traffic or while stopped at red lights or stop signs.
- GPS units and GPS units on smart phones may only be used if factory installed or secured to the vehicle with a bracket that allows the driver to view the image without having to take their eyes off the road. Electronic devices shall be setup for operation prior to commencing driving activities.;
- Prior to moving a vehicle conduct a walk-around inspection to verify there are no nearby objects that may be collided with.
- Do not move your vehicle unless all equipment and supplies are secured. Items and material that may roll, slide, or move about in your vehicle while traveling are a major hazard. Secure the load; and
- All unattended personnel transport vehicles will not be allowed to idle. As with all vehicles and equipment, engines must be turned off when not in use after three minutes time.

6.6 Electrical Hazards

Potential electrical hazards include electric shock, electrocution, burns, fires, explosion, underground utilities, and electrical storms. Electrical cords used to carry electrical power pose a trip and fall hazards. The use of portable generators poses an electrical hazard as well as the hazard associated with exposure to carbon monoxide, specifically when these generators are used indoors. Indoor work is not anticipated at this site.

AECOM employees are not authorized to work on electrical equipment or near any part of an electrical circuit unless they are protected against shock by guarding or by de-energizing and grounding the circuit.

To prevent potential electrical incidents the following basic electrical practices must be followed at all times while working on this project.

- All mechanical equipment that enters the ground, including drill rigs, jackhammers, and backhoes, must be electrically grounded with a 4-AWG cable. All electrical connections must be free of corrosion (i.e., bare metal to bare metal). If a grounding rod is required, utility clearance "keyholing" will need to occur first. AECOM, Subcontractor, and Con Edison Facilities personnel will together determine where to ground to.
- Temporary electrical cords must be rated for extra hard usage or hard usage and must be of the three-wire type with a grounding pin and a grounding receptacle. Look for the following letters on the cord: S, SJ, ST, or SO markings on the cord.
- Temporary electrical cords must be protected or elevated a minimum of 8 feet. If the cord is elevated, it must be flagged for easy visibility. They must be kept clear of walkways and other location where they may be exposed to damage or create a trip hazard. Do not hang extension cords with bare wire, nails, staples or objects that will cut/damage cords.
- Visually inspect all electrical equipment before use. Remove from service any equipment with frayed cords, missing ground prongs, cracked tool casings, etc.
- Electrical tools and equipment must be grounded, of the double insulated or cordless type.
- All 120 volt 15 and 20 amp receptacles must be protected by a Ground Fault Circuit Interrupter (GFCI). Follow manufacturers' recommended testing procedure to insure GFCI is working correctly.
- When clearing for underground utilities, non-conductive tools and dielectric gloves will be used. In the event that non-conductive tools are not available, suitable protectors shall be used.

6.6.1 Generator Safety

A generator will be used to power the equipment used during the investigation. When using a generator, follow these safety guidelines:

- Fuel generators before use and re-fuel only after the engine has been shut down and allowed to cool (10-minutes). In addition, fueling shall be done on poly-sheeting.
- Never use a portal generator indoors. Locate a generator so that the exhaust is downwind from your position or locations where carbon monoxide can enter (e.g. confined spaces, indoor locations, etc.).
- Properly ground the generator. AECOM, Subcontractor, and Con Edison Facilities personnel will together determine where to ground to.
- Use a heavy-duty, three-prong, grounded extension cord that is rated for outdoor use.

If using portable tools that are electrically powered, follow the safety precautions listed below:

- If work is to be performed on electrical equipment, lockout procedures Con Edison's CEHSP S12.00 Attachment G) are required to ensure that the equipment is de-energized and isolated.

6.7 Falls – Same Level

Falls from slips and trips are common workplace occurrences that can result in serious injuries and disabilities. The most common falls are those at the same level. Fall hazards of this type exist in most workplaces including offices, manufacturing, and construction. Slips and trips can be prevented by following these guidelines:

- Regularly inspect the job site for slip/trip/fall hazards and mitigate the hazards when identified.
- Personnel shall be vigilant in providing clear footing, clearly identifying obstructions, holes, stick ups, or other tripping hazards, and maintaining an awareness of uneven terrain and slippery surfaces.
- Walking and working surfaces shall be kept free of materials, obstructions, and substances that could cause a surface to become slick or otherwise hazardous.
- Makeshift substitute ladders such as toolboxes, buckets, and coolers shall not be used.
- The use of cellular telephones (testing, making, or receiving calls) for personal use is prohibited in the work area.
- Walk around, not over or on, debris or equipment that might have been stored in the work area.
- Don't jump from platforms or truck beds.
- When carrying equipment, identify a path that is clear of any obstructions. It might be necessary to remove obstacles to create a smooth, unobstructed access point to the work areas on site.
- During the winter months, make sure work boots have soles that provide good traction. When walking on ice traction aids should be used as necessary.

6.8 Hand Tools

Hazards associated with hand tools are cuts, lacerations, electrocution, and struck by flying objects. Frequent and prolonged use of hand tools can cause soreness, aches, pains, and fatigue, which, when ignored, can lead to chronic musculoskeletal injuries (MSIs).

Many injuries have been caused by the use of fixed open blade knives such as a jack knife or box cutter. Cutting tools that can be used by AECOM employees for cutting include shears, snips, tubing cutters, ratchet type pipe cutters, side cutters, and retractable blade utility knife or concealed blade knife. The use of fixed opened blade knives is prohibited unless it is the specified tool for the job i.e dual blade made for opening macrocores.

Basic safety rules can help prevent hazards associated with the use of hand tools:

- Use the right tool for particular work activity being conducted (e.g., don't use a file or a screwdriver as a pry bar);
- Examine each tool for damage before use (e.g., worn, splintered handles, etc.) and do not use damaged tools;
- Properly use the appropriate personal protection equipment (e.g. eye protection, gloves, hearing protection, etc.);
- Hold work in a clamp or vise, not in your hand;
- Position your body securely while working with the tool;
- Safety knife cuts should be made AWAY from the body;
- Plastic covered tool handles are for comfort only, they do not provide protection from electrical currents;
- Claw hammers are for driving and removing finishing and common, unhardened nails. Don't strike other steel tools such as chisels, punches, or masonry nails with a claw hammer;

- Ballpeen hammers (of appropriate size) and/or hand-drilling hammers should be used to strike chisels, punches, and star drills;
- When working with a wrench, always pull, NEVER PUSH, the wrench;
- Hand sockets should never be used on power or impact wrenches. Hand sockets usually have bright finish but may have black finish;
- Discard any chisel or punch that is chipped or mushroomed;
- Do not use a screwdriver for prying, punching, chiseling, scoring, or scraping. Screwdrivers should only be used to drive or remove screws;
- Never use an extension bar such as a length of pipe to increase leverage on a wrench. This could result in breakage of the wrench and personal injury;
- Select a wrench whose opening exactly fits the nut. Too large an opening can spread the jaws of a wrench. Too large a box or socket wrench can mar or turn the corners of the nut. Exercise care in selecting inch wrenches for inch fasteners and metric wrenches for metric fasteners;
- Only spark-resistant tools made from brass, plastic, aluminum, or wood to should be used around flammable substances; and
- For continuous work, use comfort grips or gloves, take frequent breaks, avoiding awkward positions, and consider using a power tool.

6.9 Noise

Use of heavy machinery may expose the field team to noise levels that exceed the OSHA PEL of 90 dBA for an 8-hour day. Exposure to noise can result in the following:

- Temporary hearing losses where normal hearing returns after a rest period;
- Interference with speech communication and the perception of auditory signals;
- Interference with the performance of complicated tasks; and
- Permanent hearing loss due to repeated exposure, resulting in nerve destruction in the hearing organ.

Employees would follow this general rule of thumb: If the noise levels are so loud that you must shout at someone who is two feet away from you, you need to be wearing hearing protection. AECOM employees can wear either disposable earplugs or earmuffs, but all hearing protection must have a minimum noise reduction of 33 dB.

As per Con Edison's CEHSP E08.02 – Noise construction (Attachment G) a noise mitigation plan can be found in Appendix E for the RI Workplan. If work will need to be completed "off hours," AECOM will secure either a rider on the DOB permit for after-hours noise, or get an "after-hours noise permit" directly from the NYCDEP. The noise mitigation plan will be updated for the remedial action, which is not covered by this HASP.

6.10 Utility Hazards

If manholes, vaults, etc. will be entered they will be considered Electric Enclosed Spaces and specific Con Edison training will be required prior to making entry. Stray voltage testing will be performed by either Con Edison Electric Operations or Construction Services personnel, with advance notice from AECOM to Con Edison Construction Management.

6.10.1 Underground Utility Hazards

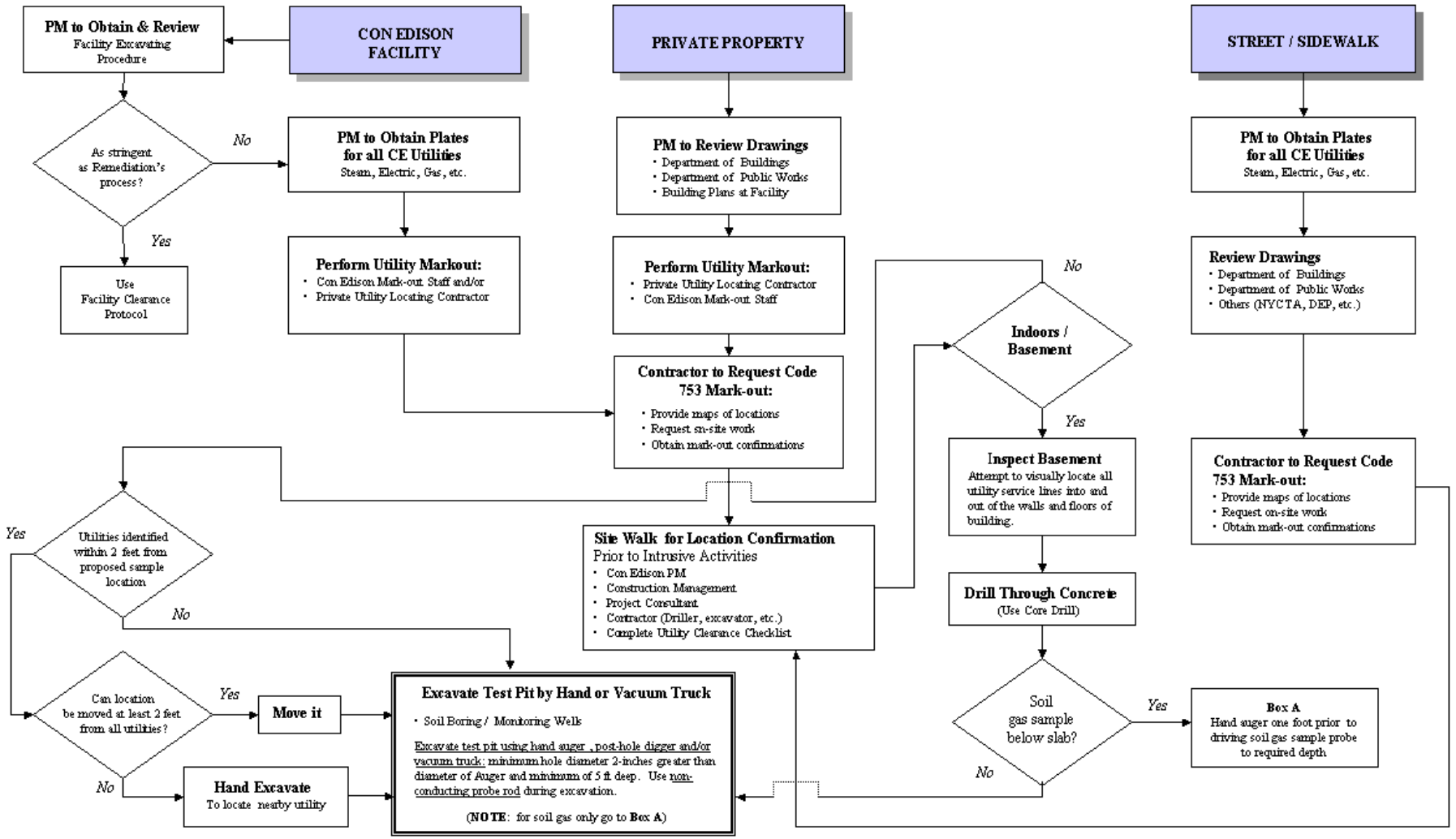
AECOM will follow the Con Edison Utility Clearance Process for Intrusive Activities which is provided on the following page.

The presence of overhead and subsurface utilities, many of which contain extremely high voltage, is the most critical potential hazard at the Site. New York law requires that a utility clearance be performed at least two (2) days prior to initiation of any subsurface work. The contractor must contact Dig Safely New York, (1-800-272-4480); to request a mark-out of natural gas, electric, telephone, cable television, water and sewer lines in the proposed drilling locations. Work must not begin until the required utility clearances have been performed. Public utility clearance organizations typically do not mark-out underground utility lines that are located on private property. As such, contractors must exercise due diligence and identify the location of any private utilities on the properties being investigated with a geophysical investigation of the areas to be disturbed.

For this project, the following actions must be performed, which comply with regulatory, Con Edison and AECOM requirements:

- Review subsurface utility drawings for the areas being investigated, using drawings provided by Con Edison;
- Pre-mark proposed investigation locations and contact the Dig Safely New York, (1-800-272-4480);
- Visually inspect the proposed investigation areas with a Con Edison representative to identify any visual hazards;
- Perform a geophysical survey (e.g., m-scope survey) to locate utilities. Additionally, as the site is on Con Edison property, the Con Edison Survey Group must perform a geophysical investigation of the area(s) to be disturbed;
- Clearly identify and mark no-work zones;
- A minimum of five feet below the ground surface is the required depth for hand-digging using tools with non-conductive handles. It may be appropriate to vacuum-excavate;
- The tolerance zone for critical facilities (transmission electric feeders [69kV, 138kV, and 345kV] and high pressure transmission gas mains) is extended from two-feet plus one-half the diameter of the facility to seven-feet plus one-half the diameter of the facility; and
- Intrusive work within that tolerance zone must first expose the facility by manual/vacuum excavation. Heat emergency situations will impact this allowance.

Utility Clearance Process During Intrusive Activities
E H & S – Remediation Group



6.10.2 Overhead Utilities

Accidental contact with an energized line or arcing between a high power line and grounded equipment can cause electrocution of equipment operators or nearby ground personnel, and damage to power transmission and operating equipment. While maintaining a safe distance from all energized lines is the preferred means for control of this hazard, site conditions may not always accommodate this.

Work may occur within 50 feet of an energized line. Safe working distance is the minimum distance which must be maintained between any energized electrical line and any part of the operating equipment to maintain adequate safety margins, and is based on the line voltage of the power line. The following safe working distance criteria will be applied for all AECOM operations:

- Determine the voltage of the power line by contacting the utility company or owner;
- Unless verified, it will be assumed that all lines are energized;
- Line Voltage (kilovolts [kV]) Minimum Safe Working Distance:

Line Voltage (kV)	Minimum Safe Working Distance
0 – 50	20 feet
>50 – 200	20 feet
>200 – 350	20 feet
>350 – 500	25 feet
>500 – 750	35 feet
>750 – 1000	45 feet
Source: American National Standards Institute, Publication B30.5	

- Operating or erecting any machinery within 20 feet of high-voltage lines is a prohibited activity, as defined in 12 NYCRR Part 57 (high voltage proximity); and
- The drill rig mast must be lowered before moving.

6.11 Vacuum Trucks and Trailers

AECOM personnel will oversee the use of vacuum truck to remove material from a tank, excavation, or during air-knife operations. AECOM employees must stand clear of this operation while it is being performed and must wear the appropriate PPE such as hard hat, protective eye wear, hearing protection, etc.

If the vacuum is used to remove flammable materials, an explosive atmosphere can be created in the vacuum tank. Vacuum systems used for flammable materials must be rated for flammable materials. Truck engines are an ignition source; they must be operated upwind of any source of vapor including the vacuum pump vent and the work area containing the flammable material. With nonconductive hose, any exposed metal, such as a hose flange, can accumulate static electricity and act as an ignition source if the metal touches or comes close to ground. If nonconductive hoses are used vacuum or discharge a flammable liquid, the metal parts shall be bonded, the hose and the tank or receiving vessel shall be bonded, and the bonding system shall be grounded.

It is possible for the operator to get stuck on the suction end of the hose. If the suction isn't broken quickly, the skin can rupture under the high vacuum and fluids can be sucked from the body. Vacuum trucks should have either a suction breaking device or an additional operator near the intake valve. Workers at the site must know where the intake valve and suction breaking device are located and how to operate them in event of an emergency.

- Vacuum equipment and appliances shall be inspected daily by the operator in accordance with the manufacturers' recommendations.
- Wheels on towable vacuum units shall be chocked when in operation.
- The brakes on truck-mounted units must be set and, if on an incline, wheels must be chocked.
- All vacuum truck operations must be performed with at least two operators.
- Operators must wear the appropriate PPE (hard hat, eye protection, protective footwear, glove, hearing protection, 1 kV dielectric gloves, currently tested and stamped, with leather protective gauntlets over the gloves, etc.).
- Stay clear of the vacuum hose openings. The suction is high enough to suck in a limb and cause serious bodily injury.
- The pendant should be with the operator at all times during operation so that in an emergency, the vacuum can be released.
- The in-line vacuum relief valve must be tested before each use. This vacuum relief valve is not intended to eliminate the need to shut down the vacuum system when assembling or moving the piping system.
- Vacuum units shall be grounded to prevent static electricity buildup.
- Hose, pipe, or accessories shall be attached before the unit is turned on.
- Keep hands and body parts away from the end of the air or water nozzle, for example, by affixing a rigid handle to the end of the hose, etc.
- Never point the wand at another individual.

6.12 Traffic Hazards

The 3rd Avenue Service Center is used by Con Edison for the maintenance and dispatching of their fleet of service vehicles. Therefore, vehicular traffic associated with these activities is anticipated. When AECOM employees and/or their subcontractors are working at any location where vehicular traffic is a concern, the following precautions shall be followed. All are designed to draw attention to the field personnel to warn other people of your presence:

- Notify Con Edison of your work location, dates of work, and the anticipated work times. Suggest the possibility of a detour around the work area.
- Wear an ANSI-approved Class II safety vest.
- Set up traffic cones 50 feet in front of the work area. "Men at Work" signs shall also be placed in conspicuous areas to warn others of your presence and the Con Edison *Work Area Protection and Traffic Control Field Manual* (February, 2011) will be followed.

7.0 Air Monitoring

7.1 Work Zone Monitoring

The inhalation of metal-impacted dusts is a concern as the potential for dust generation may occur during drilling and excavation, especially if site soils are dry. The VOCs associated with UST wastes are volatile enough to pose a potential vapor hazard to those working in the immediate drilling areas. Therefore, monitoring in the worker's breathing zone will be conducted to ensure that the concentrations of total VOC vapors and airborne dusts, if any, are maintained at safe levels during all subsurface field investigations.

7.1.1 VOC Monitoring

A photoionization detector (PID), such as a Rae Systems MiniRae 5-gas PID equipped with a 10.6 eV lamp or equivalent, will be used to screen the breathing zone of employees during all subsurface investigations as site conditions warrant but no less than at least once every hour. If breathing zone concentrations of total VOCs are sustained (15 minutes) at 1 unit above background, colorimetric detector tubes will be sampled to determine if respiratory protection is needed. If readings exceed 5 ppm, sustained, Level C respiratory protection, as described in Section 8.2, will be donned. These action limits are based on the PEL of benzene and its reported response to the selected instrument.

7.1.2 Oxygen Meter

An oxygen meter will be used to monitor all atmospheres requiring an explosive gas meter or when an excavation will be entered. The oxygen level will be determined prior to the explosive gas level to assure that there is sufficient oxygen to support both human life and to allow the explosive gas meter to operate properly.

7.1.3 Explosive Gas Meter

An explosive gas meter will be used to confirm that work area atmospheres contain less than 10% LEL before any cutting, welding, or other hot work is initiated and to monitor those areas during the activities as well as any excavations intended to be entered.

An explosive gas meter will be used to determine and monitor the air quality in any confined space entered.

If the PID reading indicates a sustained (1 minute) concentration at any location in excess of 500 ppm as isobutylene or the instrument reads an off scale high concentration, a combustible gas meter will be obtained and used to verify that no concentrations exceed ten percent (10%) of the Lower Explosive Limit (LEL). If concentrations exceed 10% of LEL, all spark and heat producing equipment will be shut down until the concentration can be reduced below 10% of LEL.

7.1.4 Dust Monitoring

Dust control measures, as described in this HASP, will be implemented to prevent and/or control the concentration of airborne dust levels during the subsurface activities. A MIE Data-Ram total dust monitor, or its equivalent (TSI Dustrak), will be used to monitor the effectiveness of these engineering controls and to determine if measures to mitigate the dust are effective and/or if respiratory protection is required.

An action level of 1.0 mg/m^3 has been established for total dust (sustained within the breathing zone for 15-minutes) and is based on the PEL for PAHs. The total dust monitor will be used to determine that total dust levels within the established restricted areas are maintained below this action level. The

readings will be taken at the locations within the restricted area, and during the time periods, which are likely to represent worst case conditions. The determination of worst case will be made by the AECOM SSO and will be dependent upon such variables as the type of work being performed and number of personnel or level of activity in the zone.

If the maximum soil concentration on site of CTPV is 32,500 mg/m^3, and 3.0 mg/m^3 of respirable dust is present in the breathing zone, exposure levels will still be below the applicable OSHA PEL of 0.2 mg/m^3 for CTPV.

7.1.5 Colorimertric Detector Tubes/Draeger Chip System

If a properly calibrated PID reads 1 ppm as isobutylene sustained for 15 minutes, colorimetric detector tubes, e.g. Draeger or Sensydine, or a Draeger Chip system equipped with the appropriate constituent monitoring chip, shall be used to confirm the presence and concentration of site-specific chemicals of concern, e.g. benzene. If a site-specific chemical of concern is detected at concentration of half its PEL then respiratory protection shall be used as described in Section 8.2 of this document.

Task	Instrument	Action Limit and Action
All tasks involving potential exposure to contaminated soils and/or groundwater	Photoionization Detector	**1 ppm as isobutylene**; sample with Draeger Tube **5 ppm as isobutylene**; Don respiratory protection as discussed in Section 8
All tasks involving potential flammable vapor concentrations above 10% of LEL or entry into confined spaces and excavations	Oxygen Meter	**Oxygen <19.5%**; Will not support human breathing, will not support LEL meter operation, **STOP WORK** and evacuate work area. **Oxygen >23.5%**; Oxygen enriched environment which increases the likelihood of an explosive atmosphere, **STOP WORK** and evacuate the work area.
All tasks involving potential flammable vapor concentrations or entry into confined spaces and excavations	Explosive gas meter	**10% of LEL**; Shutdown all ignition sources until vapor level is controlled, **STOP WORK** and evacuate.
All tasks involving exposure to site chemicals of concern with 1 ppm sustained on PID	Colorimetric detector tubes or Draeger Chip System	**0.5 ppm Benzene;** Don respiratory protection described in section8.1
All indoor tasks where hydrocarbon fuels are used for heating or powering equipment.	Carbon Monoxide Meter	**10 ppm carbon monoxide**; Begin ventilating area **25 ppm carbon monoxide**; **STOP WORK** and evacuate.
All tasks with the potential to generate dust.	Particulate meter	**>1.0 mg/m^3**; Apply dust suppression controls and don respiratory protection **>1.5 mg/m^3**; **STOP WORK** until levels are reduced below1.0 mg/m^3

7.2 Personal Exposure Monitoring

The need for personal air sampling is not anticipated by AECOM during the activities covered by this HASP. The AECOM Project Manager, or the AECOM ASH&EM can prescribe personal air sampling based on observations or concerns recognized during the project.

7.3 Calibration and Recordkeeping

Equipment used by AECOM will be calibrated in accordance with the quality assurance plan and AECOM's standard operating procedures. The PID will be calibrated to an isobutylene-in-air mixture. The dust monitor will be factory calibrated to Arizona road dust by the equipment rental vendor. In accordance with the manufacturer's instructions, a zero value update will be performed every 8 hours if the unit is operated in high particle concentration (>5 mg/m^3) environments. At aerosol concentrations below 1.0 mg/m^3, this update will be performed on a weekly basis. If at any time the zero value exceeds 2.5 mg/m^3, the sensor will be cleaned. If the zero value still exceeds 1.0 mg/m^3, the unit will be sent out for factory calibration (manufacturers suggested maintenance). A new unit will be made immediately available.

All calibrations will be recorded in a field notebook or separate equipment calibration sheets.

8.0 PERSONAL PROTECTIVE EQUIPMENT

The purpose of personal protective equipment (PPE) is to provide a barrier, which will shield or isolate individuals from the chemical and/or physical hazards that may be encountered during work activities. PPE, beyond AECOM's minimum of safety-toed boots, high visibility vests, hard hats and eye protection, will be used when Engineering and/or Administrative Controls cannot feasibly be implemented or are not successful in reducing unacceptable exposures to workers.

PPE will be worn during these activities to prevent on-site personnel from being injured by the safety hazards posed by the site and/or the activities being performed. In addition, chemical protective clothing will be worn to prevent direct dermal contact with the site's chemical contaminants. The table below indicates the PPE and chemical protective clothing to be worn for general site activities and for certain specific tasks.

Per Con Edison's policy, hard hats are to be worn at all times by all field personnel while performing work at the site. **Contractors working on site are not permitted to wear white or blue hard hats. AECOM employees will be issued hard hats other than white or blue for this program.**

8.1 Respiratory Protection

Respiratory protection will be used where air monitoring will be performed in the worker's breathing zone indicates sustained (15-minute) breathing zone vapor concentrations in excess of 5 ppm as isobutylene in areas where fuel oil has been documented. In addition, respiratory protection should also be donned if odors become objectionable at any time or if respiratory tract irritation is noticed.

Contaminant	Action Limit (Sustained for 15 minutes in WBZ)	Respirator Selection
Total VOCs (as benzene)	>1 unit on PID 5-50 units on PID >50 units on PID	Sample with Draeger tubes Half-mask air-purifying respirator (APR) with organic vapor cartridges STOP WORK
Detector tube	>0.5 ppm Benzene >10 ppm Benzene	Half-mask air-purifying respirator (APR) with organic vapor cartridges STOP WORK
Visible Dust	1.0 mg/m^3 1.5 mg/m^3	Apply light mist of water to borehole. If engineering controls are not sufficient, don half-mask APR with P-100 filters STOP WORK

Respiratory protection specification is as follows:

- Half-mask air-purifying respirator with combination organic vapor cartridges P-100 dust filter
- Cartridge change out after daily use or immediately, if breakthrough is perceived.

AECOM has developed a Respiratory Protection Program in accordance with the requirements of 29 CFR 1910.134. The Respiratory Protection Program is found in AECOM SOP S3NA-519-PR.

If Level C respiratory protection is required, documentation of being fit to wear an air purifying respirator, as well as documentation of passing a respirator fit test within the last 12 months, will be given to the Con Edison Construction representative on site.

Users of an air-purifying respirator shall perform a seal check (positive and negative check) to ensure that an adequate seal is achieved each time the respirator is put on. Instructions for performing a seal check are found in AECOM Work Instruction S3NA 519 WI1-Fit Testing Protocol and WI 2-User Seal Check.

If worn, respirators will be cleaned after each use with respirator wipe pads and will be stored in plastic bags after cleaning. Respirators will be thoroughly cleaned using disinfectant material within one week following use. Refer to the cleaning instructions provided with the respirator or specified S3NA 519-WI3-Respiratory Cleaning Protocol.

8.2 Inspection of PPE

It is the responsibility of each employee to inspect their PPE for defects prior to field activities. Defective PPE must be replaced. Prior to donning PPE, it must be inspected, for damage or defects. Promptly remove any protective clothing that becomes ripped or torn during a particular task.

8.3 PPE Donning and Doffing Information

The following information is to provide field personnel with helpful hints that, when applied, make donning and doffing of PPE a more safe and manageable task:

- Never cut disposable booties from your feet with basic utility knives. This has resulted in workers cutting through the booty and the underlying sturdy leather work boot, resulting in significant cuts to the legs/ankles. Recommend using a pair of scissors or a package/letter opener (cut above and parallel with the work boot) to start a cut in the edge of the booty, then proceed by manually tearing the material down to the sole of the booty for easy removal.
- When applying duct tape to PPE interfaces (wrist, lower leg, around respirator, etc.) and zippers, leave approximately one inch at the end of the tape to fold over onto itself. This will make it much easier to remove the tape by providing a small handle to grab while still wearing gloves. Without this fold, trying to pull up the tape end with multiple gloves on may be difficult and result in premature tearing of the PPE.
- Have a “buddy” check your ensemble to ensure proper donning before entering controlled work areas. Without mirrors, the most obvious discrepancies can go unnoticed and may result in a potential exposure situation.
- Never perform personal decontamination with a pressure washer.

Table 8-1 PPE Requirements

PPE Item	Pavement Cutting/Braking	Vacuum Excavating	Drilling/Soil Sampling	Water Level Measurements	Equipment Decontamination
Hard Hat (not white or blue)	✓	✓	✓	✓	✓
Traffic Vests (ANSI Class 2 or 3)	✓	✓	✓	✓	✓
Steel Toed Safety Shoes	✓	✓	✓	✓	✓
Metatarsal Guards	✓	If foot-crushing hazards are identified			If pressure washer is used
Rubber over boots		Wet conditions	Wet conditions	Wet conditions	If pressure washer is used
Safety Glasses w/attached side shields	✓	✓	✓	✓	✓
Face shield	✓	✓			If pressure washer is used
Hearing Protection	✓	✓	✓		If pressure washer is used
Tyvek Coveralls (dust)	As needed based on visual inspection	As needed based on visual inspection	As needed based on visual inspection		
1 kV dielectric gloves, (currently tested) leather protective gauntlets over the gloves .	✓	✓			
Nitrile Gloves(disposable)			✓	✓	✓
Heavy Duty Work Gloves	✓	✓	✓		
Respiratory Protection	As needed based on monitoring	As needed based on monitoring	As needed based on monitoring	As needed based on monitoring	As needed based on monitoring
Tyvek QC coveralls with hood, double Nitrile gloves, rubber boots, and taped transitions.					Rain suit-if pressure washer is used

8.4 Other Safety Equipment

The following additional safety equipment will be brought to the site:

- First aid kit (16-unit) with CPR barrier. First aid kits will be inspected weekly;
- Bloodborne Pathogen Kit;
- Eye wash bottles are not permitted. An eye wash station will be installed at the site. This station will be able to deliver a 15 minute uninterrupted stream; a portable eyewash station will be procured. The eyewash station will deliver 0.4 GPM for 15 minutes minimum.
- Cellular telephone;
- Type A-B-C fire extinguisher (it is sufficient to have such an extinguisher on the back of the drill rig and other machinery). Fire extinguishers must be inspected monthly;
- Emergency air horn;
- Drinking water,
- Traffic cones (28-36”), cone-toppers with lower rod (for sight-challenged customers),or barricades with lower rail (for sight-challenged customers);
- Caution tape;
- Flashlight/lantern; and
- Spill containment kit containing the following items;
  - Sock booms
  - Sorbent pads (10x 16”x18)
  - Granular absorbent
  - Heavy duty plastic bags
  - Additional supplies include 55-gallon DOT drum, shovel, protective clothing, and chemical resistant gloves.

9.0 SITE CONTROL

To prevent exposure to unprotected personnel and migration of contamination due to tracking by personnel or equipment, work areas, along with PPE requirements, will be clearly defined and verbally communicated to site personnel.

9.1 Designation of Zones

The following zones will be established in order to maintain site control:

- Exclusion or "Hot" Zone;
- Contamination Reduction Zone (CRZ); and
- Support Zone.

The zones may be designated with flagging tape as follows:

- Red tape: “Hot Zone”;
- Yellow tape: CRZ; and
- Green tape: start of support zone.

9.1.1 Exclusion Zone

An exclusion zone will be established around each subsurface activity location as well as around each sampling location. This zone will serve to protect AECOM employees from facility traffic and will protect Con Edison employees from any chemical or physical hazards that are associated with the proposed activities. Since the locations may be located in traffic areas, these same zones will be established during groundwater sampling. The perimeter of the exclusion zone will be marked with flagging tape or indicated by traffic cones, as determined by Work Area Protection needs. All personnel entering these areas must wear the prescribed level of protective equipment.

9.1.2 Contamination Reduction Zone

A mini-contamination reduction zone (CRZ) will be established immediately adjacent to each exclusion zone to facilitate prompt removal of contaminated PPE. This is where personnel will begin the sequential decontamination process (see Section 10 of this HASP) when exiting the exclusion zone. If necessary, contaminated PPE, such as boots, will be rinsed free of gross contamination, scrubbed clean in a detergent solution, and then rinsed clean. To facilitate this sort of decontamination process, it may be necessary to establish a three-basin wash system on site. To prevent cross-contamination and for accountability purposes, all personnel will enter and leave the exclusion zone through the contamination reduction zone.

9.1.3 Support Zone

The support zone will consist of those areas around the exclusion zone where equipment is staged.

9.2 Safety Measures/Precautions

The following measures are designed to augment the specific health and safety guidelines provided in this plan:

- The "buddy system" will be used at all times by all field personnel. Each team member must be intimately familiar with the procedures for initiating an emergency response;
- Avoidance of contamination is of the utmost importance. Whenever possible, avoid contact with contaminated (or potentially contaminated) surfaces or materials. Walk around (not through) puddles and discolored surfaces. Do not kneel on the ground or set equipment on the ground. Protect air monitoring equipment from water by bagging;
- Eating, drinking, chewing gum or tobacco, smoking, or any practice that increases the probability of hand-to-mouth transfer and ingestion of materials is prohibited in the immediate work area and the decontamination zone;
- There will be no smoking permitted anywhere on site, INCLUDING in the Support Zone;
- Hands and face must be thoroughly washed, using pre-moisten towels upon leaving the work area and before eating, drinking, or any other activities;
- Beards or other facial hair that interfere with respirator fit are prohibited;
- The use of alcohol or illicit drugs is prohibited during the conduct of field operations;
- All equipment must be decontaminated or properly discarded before leaving the site, in accordance with the Workplan; and
- Safety equipment described in Section 8.0 of this HASP will be required for all field personnel, unless otherwise approved by the ASH&EM.

9.3 Communications

During the investigation, AECOM employees will direct all questions from on-site employees and visitors to the appointed Con Edison representative. A communications link with Con Edison safety personnel will be established prior to field work.

A cell phone will also be used by the AECOM field crews to communicate with each other and with Con Edison, and to report any emergencies, spills, etc. However, all incidents, including Close Calls, will be communicated to the on-site Con Edison Construction Inspector immediately upon their occurrence.

10.0 DECONTAMINATION

Proper decontamination is required of all personnel and equipment before leaving the site. The extent of decontamination will depend on the amount of contamination encountered. Site personnel will follow the decontamination procedures implemented on the site by the SSO.

10.1 Personnel Decontamination

All personnel leaving the exclusion zone (EZ) shall be appropriately decontaminated in the CRZ. In the CRZ, personnel will remove for disposal their outer protective garments and other consumable items. Non-disposable items such as rubber over boot, and hard hats should be decontaminated by washing them with a soap and water solution and allowed to air dry before bringing them out to the CRZ. If worn, the outside of respirators should be initially wiped down with a clean pre-moisten (non alcohol) wipe pads and then stored upright in plastic bags. Respirators will be thoroughly cleaned using disinfectant material within one week following any respirator use.

Pre-moistened towels designed for the skin will be available so that employees can wash their hands and face before: eating, drinking, applying sun screen, as necessary, and before leaving for the day. Personnel are encouraged to immediately shower upon arriving home.

10.1.1 Decontamination Steps

The supplies required to conduct decontamination consists of:

- Poly sheeting, which will be placed on the ground in the CRZ;
- Long handle brush;
- Garden sprayer with Alconox (or equivalent) solution and rinse water;
- Wash tub or equivalent to stand in;
- Chair or bench to sit on;
- Trash bags; and
- Pre-moisten wipe pads (Simple Green Safety Towels, Gojo Fast Wipe, or equivalent).

Steps to perform a simple personal decontamination are as follows:

1. Remove gross contamination from footwear and outer garments;
2. Stand in tub to wash footwear with Alconox (or equivalent) solution;
3. Rinse with water;
4. Remove and dispose consumable footwear- place rubber boots to air dry;
5. Remove outer protective garment using the inside out method, dispose of garment;
6. Use a pre-moisten wipe pad to wipe of outer glove or wash in step 2;
7. Remove and dispose of outer gloves;
8. Use pre-moisten wipe pad to clean hardhat/eye face protection (Simple Green Safety Towels, Gojo Fast Wipe; or equivalent);
9. Remove respirator. Using a new pre-moisten wipe pad wipe outside of respirator. Dispose of cartridges/filter elements; and
10. Remove and dispose of inner gloves.

PPE shall be appropriately disposed. Water used for decontamination will be collected and will be tested and appropriately disposed of or treated on site.

10.2 Equipment Decontamination

10.2.1 Sampling Equipment

AECOM will use an Alconox solution to decontaminate sampling equipment. If other detergents are used the SDS must be provided at least two weeks ahead of time for review and acceptance by Con Edison. Visibly contaminated equipment cannot enter or leave the work area property prior to being properly decontaminated. Sample equipment decontamination will be set up as follows:

- Poly sheeting will be placed on the ground in the CRZ;
- Buckets (at least 5-gallons) will be used to contain decontaminate fluids;
- Gross decontamination of mud or caked on soil will be removed in the EZ;
- A low volume mister (garden sprayer or spray bottle) will be used to dispense Alconox solution and rinse water;
- Item will be scrubbed with a soft bristle brush;
- Rinsed with tap water or deionizing water;
- Sampling equipment will be allowed to air dry;
- Bagged in a clear ploy-bag for future use or disposal; and
- Rinse water will be placed into 55-gallon drums for subsequent disposal.

10.2.2 Drilling Equipment

Drill rig augers and spilt spoons will be rinsed on site. Alconox or a similar non-phosphate detergent will be used, if necessary, based on visual contamination. Pressure washing may also be used, if necessary, based on visual contamination. If other heavy machinery is used during the proposed subsurface investigation, it too will be pressured washed. Pressured washing will take place over a temporary decon pad that is constructed by the contractor (i.e., plastic sheeting that is bermed on all sides) to sufficiently contain the rinse water. Rinse water will then be pumped into 55-gallon drums for subsequent disposal.

10.3 Management of Investigation-Derived Wastes

Investigation-derived wastes (IDW) will include soil cuttings and water used for the decontaminating of heavy equipment, PPE, disposable sampling equipment, poly sheeting, as well as well purge water. All drums of IDW will be labeled as such. AECOM will coordinate with Con Edison's Project Manager to determine where the drums of IDW should be staged and stored until final disposition is determined. AECOM will be responsible for management and disposal of the drums. AECOM will collect IDW characterization samples per Con Edison's direction, and arrange for a Con Edison-approved transporter/waste hauler to bring the waste to a Con Edison-approved facility.

10.3.1 Decontamination Fluids

Steam-cleaning and decontamination fluids will be collected in 55-gallon drums. The drums will be labeled as IDW wastewater and subsequently characterized and disposed. AECOM will collect waste characterization samples. Upon receipt of results, AECOM will arrange for transport and disposal of drums via Con Edison-approved transporter to a Con Edison-approved facility.

10.3.2 Drill Cuttings

Visibly impacted drill cuttings will be contained in 55-gallon drums. The drums will be labeled as IDW soils and subsequently characterized and properly disposed. AECOM will collect waste characterization samples. Upon receipt of results, AECOM will arrange for transport and disposal of drums via Con Edison-approved transported to a Con Edison-approved facility.

10.3.3 Development and Purge Water

All development and purge water will be contained in 55-gallon drums. The drums will be labeled as IDW wastewater and subsequently characterized and properly disposed. AECOM will collect waste characterization samples. Upon receipt of results, AECOM will arrange for transport and disposal of drums via Con Edison-approved transporter to a Con Edison-approved facility.

10.3.4 Personal Protective Equipment

All personal protective equipment (PPE) will be placed in 55-gallon drums for proper disposal.

All drums of IDW will be labeled as such. AECOM will coordinate with the Con Edison environmental manager at the Service Center to determine where the drums of IDW should be staged and stored until final disposition is determined. The selected contractor will be a Con Edison-approved waste hauler/disposal firm.

10.3.5 Construction & Demolition (C&D) Debris

All C&D contained in 55-gallon drums or stored in a roll off. The drums or roll off will be labeled as C&D and properly disposed. AECOM will arrange for transport and disposal of drums or roll off via Con Edison-approved transporter to a Con Edison-approved facility.

10.4 Spill Prevention

All stationary vehicles and fluid-containing equipment involved on this project site will be parked over polyethylene sheeting for the full width and length of the vehicle and equipment. All nearby storm sewers, catch basins, drains, and related structures will be protected from being impacted from investigation-related runoff and/or releases to the environment. Prevention methods, such as booms, berms, or other effective materials, will be used as necessary to ensure proper mitigation.

To prevent exposure to unprotected personnel and migration of contamination due to tracking by personnel or equipment, work areas along with PPE requirements will be clearly defined.

11.0 MEDICAL/TRAINING REQUIREMENTS

11.1 Medical Surveillance

All personnel performing activities covered by this HASP must be active participants in AECOM's medical monitoring program or in a similar program that complies with 29 CFR 1910.120(f). Each individual must have completed an annual surveillance examination and/or an initial baseline examination within the last year prior to performing any work covered by this HASP.

11.2 Training

11.2.1 HAZWOPER

All personnel performing activities covered by this HASP must have completed the appropriate training requirements specified in 29 CFR 1910.120(E). Each individual must have completed an annual 8-hour refresher-training course and/or initial 40-hour training course within the last year prior to performing any work covered by this HASP. Also, on-site managers and supervisors directly responsible for supervising individuals engaged in hazardous waste operations must have completed the specified 8-hour manager's training course. (Note that AECOM corporate policy requires that, whenever three or more AECOM employees are performing work on the same site, at least one of these individuals must have completed the manager's training course.) The Con Edison Construction Inspector shall receive copies of the training documents for each person working on site.

11.2.1 First Aid/CPR

At least one AECOM employee working on site must be currently trained and certified to provide First Aid and CPR. All AECOM staff that are currently certified to provide First Aid and CPR have been trained in the provisions of AECOM's Exposure Control Plan for Blood borne Pathogens and will be prepared to implement those provisions in the event of an on-site emergency.

11.2.2 Project Orientation/Pre-Entry Briefing

Prior to the first work shift or first time visit all personnel shall receive verbal site specific safety orientation given by the AECOM SSO. The orientation shall be relevant to the work being undertaken. Personnel shall have access to the Project HASP. Orientation shall include but not limited to:

- Full contents of the HASP;
- Chemical and physical hazards;
- Location of SDS;
- Emergency notification and location of emergency equipment (i.e., fire extinguisher, first aid kit, eye wash station, etc.);
- Personal protective equipment and project dress wear;
- Rule to attend the daily safety meetings;
- Incident reporting; and
- Basic project rules.

Each person participating in the orientation shall acknowledge receipt of these instructions by filling out the Safety and Health Orientation Sign Off Sheet located in Attachment A. A copy of this

acknowledgement shall be retained on site to document that the person has been orientated. All documentation shall be maintained on site and available for review by Con Edison.

11.3 Daily Safety Meetings

Tailgate safety meetings will held daily and according to the various circumstances involved or when necessary to clear working procedures. Attendance at the daily tailgate meeting is mandatory for site personnel and must be documented on the attendance form.

Meetings will cover relevant SH&E issues, site activities, changes in site conditions, and a review of topics covered in the pre-entry briefing as they apply to daily activities. As part of the tailgate safety meeting, employee feedback (comments, questions, health or safety concerns) are welcomed. Issues addressed in the safety meetings will be documented and shall include the date, attendees, subjects discussed and names of individual(s) who conducted the meeting. All documentation shall be maintained on site and available for review by Con Edison.

12.0 Emergency Response

OSHA defines emergency response as any "response effort by employees from outside the immediate release area or by other designated responders (i.e., mutual-aid groups, local fire departments, etc.) to an occurrence which results, or is likely to result in an uncontrolled release of a hazardous substance." According to AECOM policy, AECOM personnel (and their subcontractors) shall not participate in any emergency response where there are potential safety or health hazards (i.e., fire, explosion, or chemical exposure). AECOM response actions will be limited to evacuation and medical/first aid as described within this section below. As such this section is written to comply with the requirements of 29 CFR 1910.38 (a).

The basic elements of an emergency evacuation plan include:

- employee training;
- alarm systems;
- escape routes;
- escape procedures;
- critical operations or equipment;
- rescue and medical duty assignments;
- designation of responsible parties;
- emergency reporting procedures; and
- methods to account for all employees after evacuation.

12.1 Employee Training

Employees must be instructed in the site-specific aspects of emergency evacuation. On-site refresher or update training is required anytime escape routes or procedures are modified or personnel assignments are changed.

12.2 Alarm System/Emergency Signals

An emergency communication system must be in effect at all sites. The most simple and effective emergency communication system in many situations will be direct verbal communications. Each site must be assessed at the time of initial site activity and periodically as the work progresses. Verbal communications must be supplemented anytime voices cannot be clearly perceived above ambient noise levels (i.e., noise from heavy equipment, drilling rigs, backhoes, etc.) and anytime a clear line-of-sight cannot be easily maintained amongst all AECOM personnel because of distance, terrain, or other obstructions.

Verbal communications will be adequate to warn employees of hazards associated with the immediate work area. Although the facility is occupied, AECOM may not have access to facility phones. Therefore, AECOM will bring a portable phone to the site to ensure that communications with local emergency responders is maintained, if necessary.

12.3 Escape Routes and Procedures

The following information pertaining to escape routes and procedures will be communicated to the work force during morning tailgate meetings and when moving to a new location. In the event of an

emergency, AECOM employees and subcontractors will leave the site via First Street. In case that the First Street exit is not available, AECOM will follow the 3rd Avenue Service Center's Emergency Action Plan for appropriate escape routes.

12.4 Rescue and Medical Duty Assignments

The phone numbers of the police and fire departments, ambulance service, local hospital, and AECOM representatives are provided in the emergency reference sheet. This sheet will be posted in the AECOM and contractor site vehicle.

In the event an injury or illness requires more than first aid treatment, the SSO will accompany the injured person to the medical facility and will remain with the person until release or admittance is determined. The escort will relay all appropriate medical information to the on-site project manager and the ASH&EM.

If the injured employee can be moved from the incident area, he or she will be brought to the CRZ where their PPE will be removed. If the person is suffering from a back or neck injury the person will not be moved and the requirements for decontamination do not apply. The SSO must familiarize the responding emergency personnel about the nature of the site and the injury. If the responder feels that the PPE can be cut away from the injured person's body, this will be done on-site. If this not feasible, decontamination will be performed after the injured person has been stabilized.

12.5 Designation of responsible parties

The SSO is responsible for initiating emergency response. In the event the SSO cannot fulfill this duty, the alternate SSO will take charge.

12.6 Employee Accounting Method

The SSO is responsible for identifying all AECOM personnel and Subcontractor personnel on-site at all times. On small, short duration jobs this can be done informally as long as accurate accounting is possible.

12.7 Incident Reporting and Investigation

Con Edison must be notified immediately of any incident. AECOM must provide Con Edison with an incident report within one business day. Con Edison has also requested that AECOM complete the Con Edison Contractor Injury Report form (Attachment E) and provide it to the Con Edison PM within 24 hours of the incident occurring. Within 72 hours, AECOM will submit an investigation report that identifies the root cause of the incident and preventative actions that will be taken. **NO WORK** can proceed on the task where the incident occurred until Con Edison considers AECOM's RCIR/PAP acceptable.

In addition, any incident resulting in injury, illness, vehicle/equipment incident, significant Close Call (or "Near Miss"), fire/explosion, or property damage requires an AECOM Root Cause Investigation Report and Preventative Action Plan (RCIR / PAP). The investigation should be conducted as soon as emergency conditions are under control. The purpose of the investigation is not to attribute blame but to determine the pertinent facts so that repeat or similar occurrences can be avoided. An AECOM Supervisor's Report of Incident investigation form is presented in Attachment F of this HASP. The injured AECOM or subcontractor employee's supervisor and the ASH&EM should be notified immediately of the injury. Work will NOT be permitted to be performed on the activity where the AECOM and/or subcontractor incident occurred until Con Edison's Construction EHS&P Representative has reviewed the RCIR/PAP and considered it acceptable.

If a subcontractor employee is injured, they are required to notify the AECOM SSO. Once the incident is under control, the subcontractor will submit a copy of their company's incident investigation report to the AECOM SSO.

12.8 Near Miss Reporting

A Near Miss Incident is defined as any undesired event that, under slightly different circumstances (e.g., timing, distance, chance, etc.) could have resulted in personal harm, property damage, an environmental release or any undesired loss of resources. In other words, a Near Miss Incident is a situation in which an incident almost occurred. The purpose of reporting, investigating, and following up on, Near Miss Incidents is the same as that for incidents that result in injuries, illnesses, property damage or environmental releases: to prevent their reoccurrence. By reporting and following up on Near Miss Incidents, thereby theoretically reducing their frequency, corporations can reduce the frequency of more serious incidents and incidents.

All Near Miss incidents that occur during the implementation of this program must be reported to Con Edison representative as soon as possible after their occurrence.

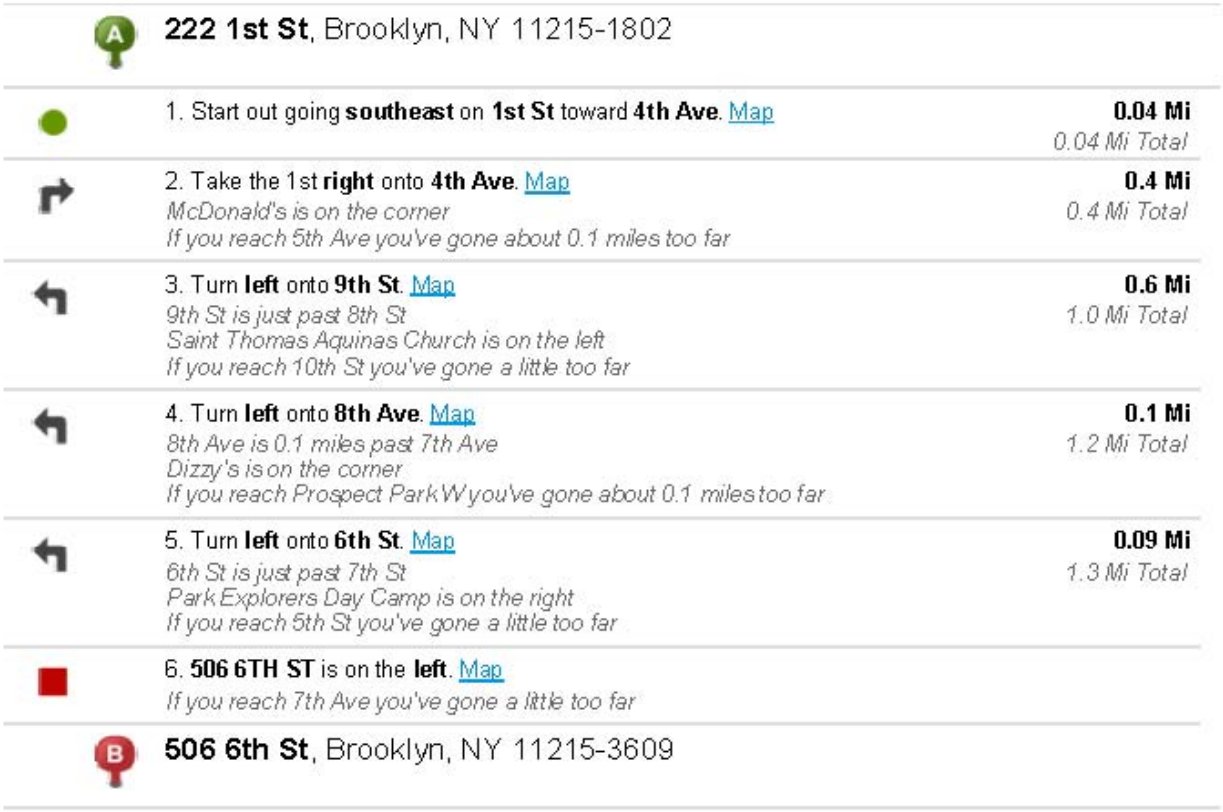
12.9 Emergency Contacts

Emergency Coordinators / Key Personnel			
Name	**Title**	**Telephone Number**	**Cellular Phone**
Claire Hunt	Project Manager	845-425-4980 Ex 21	
John Cole	Con Edison (PM)	(718) 204 4252	(917) 748 5688
Peter Gregory	NY Metro Area SH&E Manager		201-602-3511
Incident Reporting	**Corporate Safety Administrator**	**800-348-5046**	

Organization / Agency	
Name	**Telephone Number**
Police Department	911
Fire Department	911
State Police	911
Ambulance Service ***(EMT will determine appropriate hospital for treatment)***	911
WorkCare (Consulting Physicians)	877-878-9525
Poison Control Center	800-222-1222
Underground Utilities –	811
NY DEC Spill Hot Line	800-457-7362

12.10 Medical Services

NY Methodist Hospital
506 6th street
Brooklyn y 11215
718 780 3148



222 1st St, Brooklyn, NY 11215-1802

1. Start out going **southeast** on **1st St** toward **4th Ave**. Map	**0.04 Mi** *0.04 Mi Total*
2. Take the 1st **right** onto **4th Ave**. Map *McDonald's is on the corner* *If you reach 5th Ave you've gone about 0.1 miles too far*	**0.4 Mi** *0.4 Mi Total*
3. Turn **left** onto **9th St**. Map *9th St is just past 8th St* *Saint Thomas Aquinas Church is on the left* *If you reach 10th St you've gone a little too far*	**0.6 Mi** *1.0 Mi Total*
4. Turn **left** onto **8th Ave**. Map *8th Ave is 0.1 miles past 7th Ave* *Dizzy's is on the corner* *If you reach Prospect Park W you've gone about 0.1 miles too far*	**0.1 Mi** *1.2 Mi Total*
5. Turn **left** onto **6th St**. Map *6th St is just past 7th St* *Park Explorers Day Camp is on the right* *If you reach 5th St you've gone a little too far*	**0.09 Mi** *1.3 Mi Total*
6. **506 6TH ST** is on the **left**. Map *If you reach 7th Ave you've gone a little too far*	

506 6th St, Brooklyn, NY 11215-3609

mapquest

Trip to:

506 6th St

Brooklyn, NY 11215-3609

1.26 miles / 4 minutes

Notes



©2012 MapQuest, Inc. Use of directions and maps is subject to the MapQuest Terms of Use. We make no guarantee of the accuracy of their content, road conditions or route usability. You assume all risk of use. View Terms of Use

Attachment A

Health and Safety Plan Receipt and Acceptance Form

Health and Safety Plan Receipt and Acceptance Form

Remedial Investigation, Brownfields Cleanup Program

Third Avenue Yard Service Center
Brooklyn, New York

I have received a copy of the Health and Safety Plan prepared for the above referenced site, I have been given a full Health and Safety Plan Review by AECOM, read and understand its content and I agree that I will abide by its requirements.

Name	Signature	Company	Date

Attachment B

Task Hazard Analysis Form

Job Safety Analysis

Project Name	Third Ave Service Center RI BCP	Project Number	60522584
Client	CON EDISION	Location	Brooklyn, NY
Start Date	6/1/2017	End Date	
Field Supervisor	Foster, Celeste	Project Manager	Hunt, Claire
Region	New York City Metro (10)	Business Line	Environment
Task Name	Drilling (Soil Boring and Monitoring Well Installation)	Task Frequency	One Time

Associated Safe Work Plan, Health and Safety Plan or other project safety plan:
Remedial Investigation, Brownfields Cleanup Program HASP

Job Events

Travel

Drive vehicle to site

Hazards

1. Driving, vehicle

Drive vehicle to site

Risk: medium

Site Specific Primary Controls:

Complete a pre-use visual inspection. The use of portable electronic devices that may distract the driver is prohobited. Be aware of road conditions and drive only to your comfort level.

Required Trainings:

Driver Safety (AECOM University) - for general drivers Alert Driving - if assigned an AECOM owned, leased or rented vehicle for a significant period of time

Key SOPs:

S3AM-005-PR1 Driving

PPE:

Have a radio, cell phone or other communication device for emergency use

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

Existing Site Hazards

Hazards

1. Traffic (working around moving traffic; non-roadways/highways)

Work is being performed in a parking lot and in right of way.

Risk: medium

Site Specific Primary Controls:

Maintain a safe distance from moving vehicles/equipment, visual contact with drivers and operators. Stage activities away from vehicles and paths of travel.

Required Trainings:

Traffic Safety Awareness Training (AECOM)

Key SOPs:

S3AM-306-PR1 Highway and Road Work

PPE:

High visibility vests, traffic control and warning devices as needed.

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

2. Slip, trip, fall

Risk: medium

Site Specific Primary Controls:

Take inventory of your surroundings noting any conditions which may pose a slip, trip or fall hazard. Clear and walk your pathway prior to work beginning. Make any corrective actions to eliminate hazards, erect barricades or place warning signs and cones to raise awareness to hazards that can't be engineered out. Evaluate work area and access routes for locations where fall prevention may be beneficial to field staff. Install low or zero-impact fall protection (e.g., stake-supported railings, cable, or ropes) as appropriate to provide handholds. Maintain strong housekeeping habits. Keep worksites clean and free from debris, spills or other slip/trip hazards.

Key SOPs:

S3AM-013-PR1 Housekeeping

PPE:

Footwear appropriate to the site

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

4. Heat or sun exposure

Risk: medium

Site Specific Primary Controls:

Buddy system; heat stress monitoring; heat stress control plan (including shelters, work rotation, methods of cooling)

Required Trainings:

Heat Stress Awareness Training

Key SOPs:

S3AM-113-PR1 Heat Stress

PPE:

Hat; sunglasses; extra water; sunscreen

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

5. Exposure, Cold or Snow

Risk: low

Site Specific Primary Controls:

Work in pairs; review prevention, symptoms and treatment guidelines for hypothermia and frost bite; plan work in accordance with ACGIH work-warming schedules

Required Trainings:

Cold Stress Prevention Awareness Training

Key SOPs:

S3AM-112-PR1 Cold Stress

PPE:

Layers of clothing; thermal hand, face, body and foot protection

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

AECOM Activities and Hazards

Air Monitoring, Soil Classification, Soil Sampling

Hazards

1. Drill rigs (other onsite operators)

Risk: high

Site Specific Primary Controls:

All equipment/rigs will have undergone a daily inspection. Contractors have direct control over the application and operation of all equipment. Maintain good housekeeping.

Required Trainings:

All staff shall be provided with on-site orientation to the rig, emergency shut-off location,and its operator.

Key SOPs:
S3AM-321-PR1 Drilling, Boring and Direct Push Probing S3AM-306-PR1 Highway and Road Work

PPE:
Hard hat; safety boots; reflective vest; eye protection/safety glasses and/or goggles
All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

2. Underground Utilities / Ground Disturbance

Risk: high
Site Specific Primary Controls:
Do not dig until all underground lines (within 100 feet of work area) have been located and marked. Expose all lines (within 15 feet) by hand before excavating.

Required Trainings:
Underground Utility Avoidance Awareness Training

Key SOPs:
S3AM-331-PR1 Underground Utilities S3AM-303-PR1 Excavation

PPE:
Hard hat; safety boots; reflective vest
All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

3. Power tools

Risk: medium
Site Specific Primary Controls:
All tools must be inspected prior to each use. Any tool that is defective or has missing parts must not be used. Every broken or defective tool must be tagged or identified as such. Operate tools according to the manufacturers' instructions.

Required Trainings:
Hand and Power Tool Safety Awareness Training

Key SOPs:
S3AM-305-PR1 Hand and Power Tools S3AM-306-PR1 Highway and Road Work

PPE:
Safety boots; hearing protection; safety glasses
All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

4. Storing or Staging Materials and Supplies

Risk: medium
Site Specific Primary Controls:
Secure against tipping/falling. Store heavy items low, clearly identify materials. Store items out of travel paths to prevent trip creation of trip hazards.

Required Trainings:
Workplace Housekeeping Awareness Training

Key SOPs:
S3AM-013-PR1 Housekeeping

PPE:
Leather work glove, safety glasses, hard hat when overhead hazards exist.
All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

5. Pinch points

Risk: medium
Site Specific Primary Controls:
Take extra caution when handling tools, working with machinery, or lifting loads.

Key SOPs:
S3AM-209-PR Risk Assessment and Management S3AM-306-PR1 Highway and Road Work S3AM-016-PR1 Ergonomics S3AM-326-PR1 Machine Guarding Safe Work Practice

PPE:
Work gloves
All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

Client Requirements and other Controls

Client Requirements

See Attachment G of the HASP for Con Edison Health and Safety Requirements.

Approval Log

Name	Outcome/Comments	Timestamp	
Hunt, Claire	Approved	4/25/2017	1:31:39 PM
Foster, Celeste	Approved	4/25/2017	1:21:23 PM
Gregory, Peter	Approved	4/25/2017	11:03:18 PM

Sign Off Log

Name	Outcome/Comments	Timestamp

Field Team Conducting this Task

(sign here on hardcopy if names are not included in log above)

Name	Signature	Company	Date

The THA is your field visit tool:

- All crew members need to review, understand, and sign the THA prior to work commencing.
- Keep the THA in a central location on site (e.g. the truck) to review daily during your tailgate meeting and update as required.

Emergency Response Plan

Refer to On-site Emergency Response Procedures

Do you need to add additional information or file attachments to this approved JSA? Click the button below to view the Amendments page.

Open Amendments page

If you wish to use this JSA for another task, you can make a copy by clicking below. The copy will appear in the "Saved but not Submitted" library.

Copy this JSA

Job Safety Analysis

Project Name	Third Ave Service Center RI BCP	Project Number	60522584
Client	CON EDISION	Location	Brooklyn, NY
Start Date	6/1/2017	End Date	
Field Supervisor	Foster, Celeste	Project Manager	Hunt, Claire
Region	New York City Metro (10)	Business Line	Environment
Task Name	Groundwater/LNAPL Gauging and Sampling	Task Frequency	One Time

Associated Safe Work Plan, Health and Safety Plan or other project safety plan:
Remedial Investigation, Brownfields Cleanup Program HASP

Job Events

Travel

Drive vehicle to site

Hazards

1. Driving, vehicle

Risk: medium

Site Specific Primary Controls:

Complete a pre-use visual inspection. The use of portable electronic devices that may distract the driver is prohibited. Be aware of road conditions and drive only to your comfort level.

Required Trainings:

Driver Safety (AECOM University) - for general drivers Alert Driving - if assigned an AECOM owned, leased or rented vehicle for a significant period of time

Key SOPs:

S3AM-005-PR1 Driving

PPE:

Have a radio, cell phone or other communication device for emergency use

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

2. Inclement Weather

Risk: low

Site Specific Primary Controls:

Evaluate weather conditions prior to beginning the travel to determine if travel should proceed. Verify your vehicle is equipped to travel in poor weather. Have supplies on hand in the event that you become stranded, including a communication device to call for help.

Required Trainings:

Driver and Vehicle Safety Awareness

Key SOPs:

S3AM-005-PR1 Driving

PPE:

May include gloves, cold weather clothing and footwear depending on the location and season.

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

Existing Site Hazards

Weather related exposure, traffic, slips trips and falls

Hazards

1. Traffic (working around live traffic; roadways/highways)

Risk: medium

Site Specific Primary Controls:

Pull vehicles as far off the road as possible. Activate four-way hazard lights Avoid turning your back on traffic. Do not enter the roadway except to cross the road. Road crossings shall be made at ninety degree angles to traffic flow.

Required Trainings:

Traffic Safety Awareness Training (AECOM)

Key SOPs:

S3AM-306-PR1 Highway and Road Work

PPE:

High visibility vests;; Retro-reflective stripes (for night work);

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

2. Slip, trip, fall

Risk: medium

Site Specific Primary Controls:

Take inventory of your surroundings noting any conditions which may pose a slip, trip or fall hazard. Clear and walk your pathway prior to work beginning. Make any corrective actions to eliminate hazards, erect barricades or place warning signs and cones to raise awareness to hazards that can't be engineered out. Evaluate work area and access routes for locations where fall prevention may be beneficial to field staff. Install low or zero-impact fall protection (e.g., stake-supported railings, cable, or ropes) as appropriate to provide handholds. Maintain strong housekeeping habits. Keep worksites clean and free from debris, spills or other slip/trip hazards.

Key SOPs:

S3AM-013-PR1 Housekeeping

PPE:

Footwear appropriate to the site

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

3. Exposure, Cold or Snow

Risk: low

Site Specific Primary Controls:

Work in pairs; review prevention, symptoms and treatment guidelines for hypothermia and frost bite; plan work in accordance with ACGIH work-warming schedules

Required Trainings:

Cold Stress Prevention Awareness Training

Key SOPs:

S3AM-112-PR1 Cold Stress

PPE:

Layers of clothing; thermal hand, face, body and foot protection

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

4. Heat or sun exposure

Risk: medium

Site Specific Primary Controls:

Buddy system; heat stress monitoring; heat stress control plan (including shelters, work rotation, methods of cooling)

Required Trainings:

Heat Stress Awareness Training

Key SOPs:

S3AM-113-PR1 Heat Stress

PPE:

Hat; sunglasses; extra water; sunscreen

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

AECOM Activities and Hazards

Groundwater gauging and sampling

Hazards

1. Contaminated Materials Handling (debris, soils, liquids, etc.)

Risk: medium

Site Specific Primary Controls:

Avoid direct contact, use tools whenever possible. Decontaminate and dispose of contaminated tools/equipment. Stand upwind of contaminated materials.

Required Trainings:

HAZWOPER 40hr, 8hr Respiratory Protection Fit Test Respiratory/Asbestos Medical Clearance

Key SOPs:

S3AM-123-PR1 Respiratory Protection S3AM-127-PR1 Exposure Monitoring S3AM-128-PR1 Medical Screening and Surveillance

PPE:

Chemical resistant gloves (per HASP requirements), chemical resistant clothing, respiratory protection.

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

2. Ergonomics - Manual Handling

Risk: low

Site Specific Primary Controls:

Use dollies, carts, come-alongs, or rollers whenever possible rather than the employee physically moving materials. Use appropriate lifting techniques if required to manually lift an object. Seek assistance when needed.

Required Trainings:

Ergonomics

Key SOPs:

S3AM-016-PR1 Ergonomics

PPE:

Work gloves

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

3. Hand tools (non-powered)

Risk: low

Site Specific Primary Controls:

All tools must be inspected prior to each use. Any tool that is defective or has missing parts must not be used. Every broken or defective tool must be tagged or identified as such.

Required Trainings:

Hand and Power Tool Safety Awareness Training; Staff shall receive hands-on training with an experienced individual.

Key SOPs:

S3AM-305-PR1 Hand and Power Tools

PPE:

Safety boots; safety glasses, gloves, eye protection

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

4. Eye Exposure to Chemicals (Splashes or Vapors)

During LNAPL sampling

Risk: medium

Site Specific Primary Controls:

Employees requiring corrective lenses will obtain prescription safety eyewear that conforms with applicable standards (ANSI Z87.1/CSA Z94.3); ventilate work space to prevent the accumulation of fumes, minimize the amount of chemicals handled to reduced splash potential.

Required Trainings:

PPE Awareness

Key SOPs:

S3AM-208-PR1 Personal Protective Equipment

PPE:

(Rx) Safety Glasses or Goggles (over Rx glasses); add Face Shield; no Contact Lenses permitted

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

Client Requirements and other Controls

Client Requirements

See Attachment G of the HASP for Con Edison Health and Safety Requirements.

Approval Log

Name	Outcome/Comments	Timestamp	
Hunt, Claire	Approved	4/25/2017	2:24:46 PM
Foster, Celeste	Approved	4/25/2017	1:43:46 PM

Sign Off Log

Name	Outcome/Comments	Timestamp

Test:

Field Team Conducting this Task

(sign here on hardcopy if names are not included in log above)

Name	Signature	Company	Date

The THA is your field visit tool:

- All crew members need to review, understand, and sign the THA prior to work commencing.
- Keep the THA in a central location on site (e.g. the truck) to review daily during your tailgate meeting and update as required.

Emergency Response Plan

Refer to On-site Emergency Response Procedures

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Open Amendments page

If you wish to use this JSA for another task, you can make a copy by clicking below. The copy will appear in the "Saved but not Submitted" library.

Attachment C

Safety Data Sheet

SPI Supplies Division
Structure Probe, Inc.
P.O. Box 656 West Chester, PA 19381-0656 USA
Phone: *1-(610)-436-5400* ***Fax:*** *1-(610)-436-5755*
E-mail:*mailto:spi3spi@2spi.com*
WWW: http://www.2spi.com/
Manufacturer's CAGE: 1P573

Material Safety Data Sheet

SPI #01200-AB and #01200A-AB Alconox® Powdered Detergent

Section 1: Identification
Date Effective..... November 14, 2005
(most recent revision)

Chemical Name/Synonyms... On Label: Alconox®

Chemical Family..... Anionic powdered detergent

Emergencies
Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...
Worldwide phone: 1-(703)-527-3887
Worldwide FAX: 1-(703)-741-6090
Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.... SPI #01200-AB and #01200A-AB
Alconox® Powdered Detergent

CAS #..... Not applicable

Chemical Formula..... Not applicable

Section 2 Composition

Component Name	CAS #	OSHA	OSHA	ACGIH	ACGIH

No hazardous ingredients in Alconox Powdered Detergent as defined by
the OSHA Standard and Hazardous Substance List 29 CFR 1910 Subpart Z.

Hazardous Material Information System USA	**Health**	**0**	**National Fire Protection Association USA**	
	Fire Hazard	**0**		
	Reactivity	**0**		
	Personal Protection			

NFPA (National Fire Protection Association) Rating (Scale 0-4):
HEALTH=0 FLAMMABILITY=0 REACTIVITY=0 OTHER=0 Not known

Section 3: Hazard Identification
Routes of entry
Inhalation? Yes
Skin? No
Ingestion? Yes

Health Hazards (Acute and chronic):
Inhalation of powder may prove locally irritating to mucous membranes. Ingestion may cause discomfort and/or diarrhea. Eye contact may prove irritating.

Carcinogenicity:
NTP? No
IARC Monographs? No
OSHA Regulated? No

Section 4: First Aid Measures
Signs and Symptoms of Exposure:
Exposure may irritate mucous membranes. May cause sneezing.

Medical conditions generally aggravated by exposure:
Not established. Unnecessary exposure to this product or any industrial chemical should be avoided. Respiratory conditions may be aggravated by powder if air borne.

Emergency and First Aid Procedures:

Eyes: Immediately flush eyes with copious amounts of water for minimum 15 minutes. Call physician.

Skin: Flush with plenty of water.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. If vomiting occurs re-administer fluids. See a physician for discomfort.

Section 5: Fire Fighting Measures
NFPA Rating: Not known

Extinguishing Media

Suitable/Not suitable:

SMALL FIRE: Use DRY chemical powder, water, foam, carbon dioxide

LARGE FIRE: Use extinguishing media suitable for the surrounding materials.

Special firefighting procedures:
Self-contained positive pressure breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.

Unusual Fire/Explosion Hazards: None

Hazardous thermal decomposition products: None known.

Protection of fire fighters: No special measures are required.

Flammable Limits:
LEL: No data
UEL: No data

Section 6: Accidental Release Measures
Personal precautions: No special precautions

Environmental Precautions and Clean Up Methods:
Material foams profusely. Recover as much as possible and flush remainder to sewer. Material is biodegradable.

Section 7: Handling and Storage
Material should be stored in a dry area to prevent caking.

Section 8: Exposure Controls and Personal Protection
Engineering controls: Normal ventilation is normally required when handling or using this product. Avoid conditions that could produce dusting.

Personal Protective Equipment

Respiratory system: Dust mask recommended but not required.

Skin and body: Laboratory coat recommended but not required.

Hands: Impervious gloves recommended

Eyes: Goggles are recommended, especially when handling solutions irrespective of what they might be.

Other: Wash hands before eating, drinking, or smoking.

Section 9: Physical and Chemical Properties
Physical State and Appearance: White powder interspersed with cream colored flakes.

Odor: None

Boiling Point: Not applicable

Melting Point: Not applicable

Density (water = 1): Not applicable

Solubility: Appreciable, to 10% at ambient conditions.

Octanol/water partition coefficient: Not available

pH: Not known

Flash Point: None

Flammability: Non-flammable

Autoignition temperature: Not applicable

Section 10: Stability and Reactivity
Chemical Stability: The product is stable

Hazardous polymerization: Will not occur

Conditions to Avoid: None

Hazardous Products of Deposition: May release CO_2 on burning.

Reactions with Air and Water:
Does not react with air, water or other common materials.

Section 11: Toxicological Information
Summary: Not considered to be toxic to humans or animals.

Skin Effects: Can be locally irritating

Eye Irritation: Can be irritating to the eyes

Inhalation: Dust can be irritating to mucous membranes

Sensitization: Not known

Chronic toxicity: There is no known effect from the chronic exposure to this product.

Section 12: Ecological Information
Exotoxicity: Not know but it is expected to be low because the material is biodegradable.

Environmental Fate: It is biodegradable.

Bioaccumulation: Not expected to occur (because the material is biodegradable).

Section 13: Disposal Considerations
This material is NOT classified as a hazardous material by RCRA. Use only licensed transporters and permitted disposal facilities and conform

to all laws.

Recycle to process, if possible.

Germany water class: VCI WGK: No products were found.

Methods of disposal; waste of residues; contaminated packaging:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Proper Shipping Name: Non-Regulated, No dangerous cargo

DOT Hazard Class: Non-Regulated, No dangerous cargo

UN/NA ID: Non-Regulated, No dangerous cargo

Packing Group: Not Applicable

Labels: Not Regulated

Marine Pollutant: No

NAER Guidebook: Not Regulated

DOT Status: Not Regulated

Land-Road/Railway:

ADR/RID Class: No dangerous cargo

Sea:

IMDG Class: No dangerous cargo

Air:

IATA-DGR Class: No dangerous cargo

Section 15: Regulatory Information
TSCA: All components of this product are listed on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification Rule, they will be listed below.

TSCA 12(b) Component Listed under TSCA Section

SARA Title 3: Section 313 Information/Emissions Reporting (**40 CFR 372**):

Component Reporting Threshold

SARA-Section 311/312:

No components present in this product are subject to the reporting requirements of this statute.

CERCLA Hazardous Substances and their Reportable Quantities:

Component Reportable Quantity

EU Regulations: Risk Phrases: This product is not classified according to the EU regulations.

Safety Phrases: Not applicable

Contains: Not applicable

California Prop. 65:
Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

None found

Section 16: Other Information
Disclaimer of Liability:
Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not

provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

Section 1 - Material Identification

Supplier:

REGENESIS
1011 Calle Sombra
San Clemente, CA 92673

Phone:	**949.366.8000**
Fax:	**949.366.8090**
E-mail:	**info@regenesis.com**
Chemical Description:	A mixture of Calcium OxyHydroxide [$CaO(OH)_2$] and Calcium Hydroxide [$Ca(OH)_2$].
Chemical Family:	Inorganic Chemical
Trade Name:	Advanced Formula Oxygen Release Compound (ORC Advanced™)
Chemical Synonyms	Calcium Hydroxide Oxide; Calcium Oxide Peroxide
Product Use:	Used to remediate contaminated soil and groundwater (environmental applications)

Section 2 – Composition

CAS No.	Chemical
682334-66-3	**Calcium Hydroxide Oxide [$CaO(OH)_2$]**
1305-62-0	**Calcium Hydroxide [$Ca(OH)_2$]**
7758-11-4	**Dipotassium Phosphate (HK_2O_4P)**
7778-77-0	**Monopotassium Phosphate (H_2KO_4P)**

Section 3 – Physical Data

Form:	Powder
Color:	White to Pale Yellow
Odor:	Odorless
Melting Point:	527 °F (275 °C) – Decomposes
Boiling Point:	Not Applicable (NA)
Flammability/Flash Point:	NA
Auto- Flammability:	NA
Vapor Pressure:	NA

Self-Ignition Temperature:	NA
Thermal Decomposition:	527 °F (275 °C) – Decomposes
Bulk Density:	0.5 – 0.65 g/ml (Loose Method)
Solubility:	1.65 g/L @ 68° F (20° C) for calcium hydroxide
Viscosity:	NA
pH:	11-13 (saturated solution)
Explosion Limits % by Volume:	Non-explosive
Hazardous Decomposition Products:	Oxygen, Hydrogen Peroxide, Steam, and Heat
Hazardous Reactions:	None

Section 4 – Reactivity Data

Stability:	Stable under certain conditions (see below)
Conditions to Avoid:	Heat and moisture.
Incompatibility:	Acids, bases, salts of heavy metals, reducing agents, and flammable substances.
Hazardous Polymerization:	Does not occur.

Section 5 – Regulations

TSCA Inventory List:	Listed
CERCLA Hazardous Substance (40 CFR Part 302)	
Listed Substance:	No
Unlisted Substance:	Yes
Reportable Quantity (RQ):	100 pounds
Characteristic(s):	Ignitibility
RCRA Waste Number:	D001
SARA, Title III, Sections 302/303 (40 CFR Part 355 – Emergency Planning and Notification)	
Extremely Hazardous Substance:	No
SARA, Title III, Sections 311/312 (40 CFR Part 370 – Hazardous Chemical Reporting: Community Right-To-Know	
Hazard Category:	Immediate Health Hazard Fire Hazard
Threshold Planning Quantity:	10,000 pounds
Respiratory Protection:	For many conditions, no respiratory protection may be needed; however, in dusty or unknown atmospheres use a NIOSH approved dust respirator.
Hand Protection:	Impervious protective gloves made of nitrile, natural rubber or neoprene.

Eye Protection:	Use chemical safety goggles (dust proof).
Skin Protection:	For brief contact, few precautions other than clean clothing are needed. Full body clothing impervious to this material should be used during prolonged exposure.
Other:	Safety shower and eyewash stations should be present. Consultation with an industrial hygienist or safety manager for the selection of PPE suitable for working conditions is suggested.
Industrial Hygiene:	Avoid contact with skin and eyes.
Protection Against Fire & Explosion:	NA

Section 7 – Hazards Identification

Emergency Overview:	Oxidizer – Contact with combustibles may cause a fire. This material decomposes and releases oxygen in a fire. The additional oxygen may intensify the fire.
Potential Health Effects:	Irritating to the mucous membrane and eyes. If the product splashes in ones face and eyes, treat the eyes first. Do not dry soiled clothing close to an open flame or heat source. Any clothing that has been contaminated with this product should be submerged in water prior to drying.
Inhalation:	High concentrations may cause slight nose and throat irritation with a cough. There is risk of sore throat and nose bleeds if one is exposed to this material for an extended period of time.
Eye Contact:	Severe eye irritation with watering and redness. There is also the risk of serious and/or permanent eye lesions.
Skin Contact:	Irritation may occur if one is exposed to this material for extended periods.
Ingestion:	Irritation of the mouth and throat with nausea and vomiting.

Section 8 – Measures in Case of Accidents and Fire

After Spillage/Leakage/Gas Leakage:	Collect in suitable containers. Wash remainder with copious quantities of water.
Extinguishing Media:	See next.
Suitable:	Large quantities of water or water spray. In case of fire in close proximity, all means of extinguishing are acceptable.
Further Information:	Self contained breathing apparatus or approved gas mask should be worn due to small particle size. Use extinguishing media appropriate for

	surrounding fire. Apply cooling water to sides of transport or storage vessels that are exposed to flames until the fire is extinguished. Do not approach hot vessels that contain this product.
First Aid:	After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. Consult an opthalmologist in all cases.

Section 8 – Measures in Case of Accidents and Fire

Eye Contact:	Flush eyes with running water for 15 minutes, while keeping the eyelids wide open. Consult with an ophthalmologist in all cases.
Inhalation:	Remove subject from dusty environment. Consult with a physician in case of respiratory symptoms.
Ingestion:	If the victim is conscious, rinse mouth and administer fresh water. DO NOT induce vomiting. Consult a physician in all cases.
Skin Contact:	Wash affected skin with running water. Remove and clean clothing. Consult with a physician in case of persistent pain or redness.
Special Precautions:	Evacuate all non-essential personnel. Intervention should only be done by capable personnel that are trained and aware of the hazards associated with this product. When it is safe, unaffected product should be moved to safe area.
Specific Hazards:	Oxidizing substance. Oxygen released on exothermic decomposition may support combustion. Confined spaces and/or containers may be subject to increased pressure. If product comes into contact with flammables, fire or explosion may occur.

Section 9 – Accidental Release Measures

Precautions:	Observe the protection methods cited in Section 3. Avoid materials and products that are incompatible with product. Immediately notify the appropriate authorities in case of reportable discharge (> 100 lbs).
Cleanup Methods:	Collect the product with a suitable means of avoiding dust formation. All receiving equipment should be clean, vented, dry, labeled and made of material that this product is compatible with. Because of the contamination risk, the collected material should be kept in a safe isolated place.

	Use large quantities of water to clean the impacted area. See Section 12 for disposal methods.

Section 10 – Information on Toxicology

Toxicity Data

Acute Toxicity:	Oral Route, LD_{50}, rat, > 2,000 mg/kg (powder 50%) Dermal Route, LD_{50}, rat, > 2,000 mg/kg (powder 50%) Inhalation, LD_{50}, rat, > 5,000 mg/m^3 (powder 35%)
Irritation:	Rabbit (eyes), severe irritant
Sensitization:	No data
Chronic Toxicity:	In vitro, no mutagenic effect (Powder 50%)
Target Organ Effects:	Eyes and respiratory passages.

Section 11 – Information on Ecology

Ecology Data

Acute Exotoxicity:	10 mg $Ca(OH)_2$/L: pH = 9.0 100 mg $Ca(OH)_2$/L: pH = 10.6 Fishes, Cyprinus carpio, LC_{50}, 48 hrs, 160 mg/L Crustaceans, Daphnia sp., EC_{50}, 24 hours, 25.6 mg/L (Powder 16%)
Mobility:	Low Solubility and Mobility
Abiotic Degradation:	Water – Slow Hydrolysis. Degradation Products: Calcium Hydroxide Water/soil – complexation/precipitation. Carbonates/sulfates present at environmental concentrations. Degradation products: carbonates/sulfates sparingly soluble
Biotic Degradation:	NA (inorganic compound)
Potential for Bioaccumulation:	NA (ionizable inorganic compound)

Section 11 – Information on Ecology (cont)

Comments:	Observed effects are related to alkaline properties of the product. Hazard for the environment is limited due to the product properties of:

• No bioaccumulation
• Weak solubility and precipitation as carbonate or sulfate in an aquatic environment.

Diluted product is rapidly neutralized at environmental pH.

Further Information:	NA

Section 12 – Disposal Considerations

Waste Disposal Method:	Consult current federal, state and local regulations regarding the proper disposal of this material and its emptied containers.

Section 13 – Shipping/Transport Information

D.O.T Shipping Name:	Oxidizing Solid, N.O.S [A mixture of Calcium OxyHydroxide [$CaO(OH)_2$] and Calcium Hydroxide [$Ca(OH)_2$].
UN Number:	1479
Hazard Class:	5.1
Label(s):	5.1 (Oxidizer)
Packaging Group:	II
STCC Number:	4918717

Section 14 – Other Information

HMIS® Rating	Health – 2 Flammability – 0	Reactivity – 1 PPE - Required

HMIS® is a registered trademark of the National Painting and Coating Association.

NFPA® Rating	Health – 2 Flammability – 0	Reactivity – 1 OX

NFPA® is a registered trademark of the National Fire Protection Association.

Reason for Issue: Update toxicological and ecological data

Section 15 – Further Information

The information contained in this document is the best available to the supplier at the time of writing, but is provided without warranty of any kind. Some possible hazards have been determined by analogy to similar classes of material. The items in this document are subject to change and clarification as more information become available.

GASCO

MATERIAL SAFETY DATA SHEET - CALIBRATION CHECK GAS

PRODUCT NAME: ISOBUTYLENE (1 PPM – 0.9%) IN AIR

INGESTION EFFECTS:
Ingestion unlikely. Gas at room temperature.

INHALATION EFFECTS:
Due to the small size of this cylinder, no unusual health effects from over-exposure are anticipated under normal routine use.

NFPA HAZARD CODES		HMIS HAZARD CODES		RATING SYSTEM
Health:	1	Health:	1	0= No Hazard
Flammability:	0	Flammability:	0	1= Slight Hazard
Reactivity:	0	Reactivity:	0	2= Moderate Hazard
				3= Serious Hazard
				4= Severe Hazard

4. FIRST AID MEASURES

EYES:
N/A

SKIN:
N/A

INGESTION:
Not required

INHALATION:
PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASED OF OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED THE SELF-CONTAINED BREATHING APPARATUS. Victims should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. If breathing has stopped administer artificial resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

These containers hold gas under pressure, with no liquid phase. If involved in a major fire, they should be sprayed with water to avoid pressure increases, otherwise pressures will rise and ultimately they may distort or burst to release the contents. The gases will not add significantly to the fire, but containers or fragments may be projected considerable distances - thereby hampering fire fighting efforts.

6. ACCIDENTAL RELEASE MEASURES

In terms of weight, these containers hold very little contents, such that any accidental release by puncturing etc. will be of no practical concern.

7. HANDLING AND STORAGE

Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Use only in well-ventilated areas. Do not heat cylinder by any means to increase rate of product from the cylinder. Do not allow the temperature where cylinders are stored to exceed 130°F (54°C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use adequate ventilation for extended use of gas.

GASCO

MATERIAL SAFETY DATA SHEET - CALIBRATION CHECK GAS

PRODUCT NAME: ISOBUTYLENE (1 PPM – 0.9%) IN AIR

INGESTION EFFECTS:
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Flammability:	0	Flammability:	0	1= Slight Hazard
Reactivity:	0	Reactivity:	0	2= Moderate Hazard
				3= Serious Hazard
				4= Severe Hazard

4. FIRST AID MEASURES

EYES:
N/A

SKIN:
N/A

INGESTION:
Not required

INHALATION:
PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASED OF OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED THE SELF-CONTAINED BREATHING APPARATUS. Victims should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. If breathing has stopped administer artificial resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use adequate ventilation for extended use of gas.

Mobil® The energy to make a difference™

159004-01 LOW SULFUR #1 DIESEL
MATERIAL SAFETY DATA BULLETIN

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LOW SULFUR #1 DIESEL
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037
24 - Hour Emergency (call collect): 609-737-4411
Product and SDS Information: 800-662-4525 856-224-4644
CHEMTREC: 800-424-9300 202-483-7616

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: HYDROCARBONS AND ADDITIVES
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

Substance Name	Wt%
DIESEL FUEL (68334-30-5)	100

See Section 15 for European Label Information.
See Section 8 for exposure limits (if applicable).

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3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.
EFFECTS OF OVEREXPOSURE: Respiratory irritation, dizziness, nausea, loss of consciousness. Prolonged, repeated skin contact may result in skin irritation or more serious skin disorders. Low viscosity material-if swallowed may enter the lungs and cause lung damage. Note: This product contains polycyclic aromatic hydrocarbons, some of which have been reported to cause skin cancer in humans under conditions of poor personal hygiene, prolonged repeated contact, and exposure to sunlight. Toxic

effects are unlikely to occur if good personal hygiene is
practiced.
EMERGENCY RESPONSE DATA: Clear (May Be Dyed) Liquid. Material is
combustible. DOT ERG No. : 128

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4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call
a physician.
SKIN CONTACT: Remove contaminated clothing. Dry wipe exposed skin and
cleanse yourself with waterless hand cleaner and follow by
washing thoroughly with soap and water. For those providing
assistance, avoid further contact to yourself or others. Wear
impervious gloves. Launder contaminated clothing separately
before reuse. Discard contaminated articles that cannot be
laundered.
INHALATION: Remove from further exposure. If respiratory irritation,
dizziness, nausea, or unconsciousness occurs, seek immediate
medical assistance. If breathing has stopped, assist ventilation
with bag-valve-mask device or use mouth-to-mouth resuscitation.
INGESTION: Seek immediate medical attention. Do not induce vomiting.
NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause
chemical pneumonitis. Treat appropriately.

---

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire exposed
containers cool. If a leak or spill has not ignited, use water
spray to disperse the vapors and to protect personnel attempting
to stop leak. Water spray may be used to flush spills away from
exposures. Prevent runoff from fire control or dilution from
entering streams, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire
fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Material is combustible. Flash
Point C(F): > 52(125) (ASTM D-93). Flammable limits - LEL:
0.6%, UEL: 7.0%.
NFPA HAZARD ID: Health: 1, Flammability: 2, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

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6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.
PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.
ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.
PERSONAL PRECAUTIONS: See Section 8

---

7. HANDLING AND STORAGE

HANDLING: Harmful in contact with or if absorbed through the skin. Avoid inhalation of vapors or mists. PORTABLE CONTAINERS approved for storing fuel must be placed on the ground and the nozzle must stay in contact with the container when filling to prevent build up and discharge of static electricity.
STORAGE: Store in a cool area. A flammable atmosphere can be produced in storage tank headspaces even when stored at a temperature below the flashpoint. Monitor and maintain headspace gas concentrations below flammable limits. Ensure that there are no ignition sources in the area immediately surrounding filling and venting operations. Avoid sparking conditions. Ground and bond all transfer equipment. Store in a cool area.

---

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use in well ventilated area. Ventilation desirable and equipment should be explosion proof.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: If splash with liquid is possible, chemical type goggles should be worn.
SKIN PROTECTION: Impervious gloves must be worn. If contact is likely oil impervious clothing must be worn.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.
APPEARANCE: Liquid
COLOR: Clear (May Be Dyed)
ODOR: Hydrocarbon
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): > 149(300)
MELTING POINT C(F): NA
FLASH POINT C(F): > 52(125) (ASTM D-93)
FLAMMABILITY: NE
AUTO FLAMMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: 0.5
VAPOR DENSITY: > 2.0
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.82-0.87
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: NE
VISCOSITY AT 40 C, cSt: > 1.0
VISCOSITY AT 100 C, cSt: NE
POUR POINT C(F): < -7(20)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

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10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Heat, sparks, flame and build up of static electricity.
INCOMPATIBILITY (MATERIALS TO AVOID): Halogens, strong acids, alkalies, and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.
HAZARDOUS POLYMERIZATION: Will not occur.

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11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---
ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.
---SUBCHRONIC TOXICOLOGY (SUMMARY)---
Repeated dermal application to rats for 13 weeks was carried out with aromatic oils similar to some of the components of this product. Resulting effects included increased mortality and decreased body and thymus weights. Severe skin irritation was also observed at the site of application.
---REPRODUCTIVE TOXICOLOGY (SUMMARY)---
Repeated dermal application to pregnant rats was carried out using aromatic oils similar to some of the components used in this product. Results included maternal toxicity, decreased fetal body weights and decreased fetal survival in some cases. No fetal malformations were observed.
---CHRONIC TOXICOLOGY (SUMMARY)---
Expected to be carcinogenic in lifetime mouse skin painting bioassays.
---OTHER TOXICOLOGY DATA---
Skin cleansing studies with aromatic oils show that toxic effects are not likely to occur in humans if good personal hygiene practices are used. Overexposure to diesel exhaust fumes may result in eye irritation, headaches, nausea, and respiratory irritation.
Animal studies invoCon Edisonng lifetime exposure to high levels of diesel exhaust have produced variable results, with some studies indicating a potential for lung cancer. Limited evidence from epidemiological studies suggest an association between long-term occupational exposure to diesel engine emissions and lung cancer. Diesel engine exhaust typically consists of gases and particulates, including carbon dioxide, carbon monoxide, nitrogen compounds, oxides of sulfur, and hydrocarbons. Diesel exhaust

composition will vary with fuel, engine type, load cycle, engine maintenance, tuning and exhaust gas treatment. Use of adequate ventilation and/or respiratory protection in the presence of diesel exhaust is recommended to minimize exposures.

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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning for fuel value in compliance with applicable laws and regulations.
RCRA INFORMATION: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP).
FLASH: > 52(125) C(F)

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14. TRANSPORT INFORMATION

NOTE: The flash point of this material is > 125F. Regulatory classifications vary as follows:
DOT: Flammable Liquid OR Combustible Liquid - (49CFR 173.120(b)(2))
OSHA: Combustible Liquid
IATA/IMO: Flammable Liquid
USA DOT:
SHIPPING NAME: Diesel Fuel
HAZARD CLASS & DIV: COMBUSTIBLE LIQUID
ID NUMBER: NA1993
ERG NUMBER: 128
PACKING GROUP: PG III
STCC: NE
DANGEROUS WHEN WET: No
POISON: No
LABEL(s): NA
PLACARD(s): Combustible
PRODUCT RQ: NA
MARPOL III STATUS: NA

In accordance with 49 CFR 173.150(f)(2), non-bulk quantities of this material (<119 gallons per container) may be shipped as non regulated for USA domestic shipments.
RID/ADR:
HAZARD CLASS: 3
HAZARD SUB-CLASS: 31(c)
LABEL: 3
DANGER NUMBER: 30
UN NUMBER: 1202
SHIPPING NAME: Gas Oil
REMARKS: NA
IMO:
HAZARD CLASS & DIV: 3.3
UN NUMBER: 1202
PACKING GROUP: PG III
SHIPPING NAME: Gas Oil
LABEL(s): Flammable Liquid
MARPOL III STATUS: NA
ICAO/IATA:
HAZARD CLASS & DIV: 3
ID/UN Number: 1202
PACKING GROUP: PG III
SHIPPING NAME: Gas Oil
SUBSIDIARY RISK: NA
LABEL(s): Flammable Liquid

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15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, and EINECS/ELINCS.
EU Labeling:
Symbol: Xn Harmful.
Risk Phrase(s): R10-40-65.
Flammable. Possible risks of irreversible effects. Harmful: may cause lung damage if swallowed.
Safety Phrase(s): S24-2-36/37-61-62.
Avoid contact with skin. Keep out of the reach of children. Wear suitable protective clothing and gloves. Avoid release to the environment. Refer to special instructions/Safety data sheets. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Contains: Gas oil - unspecified.
U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".
SARA (311/312) REPORTABLE HAZARD CATEGORIES:
FIRE CHRONIC ACUTE

This product contains the following SARA (313) Toxic Release Chemicals:

CHEMICAL NAME	CAS NUMBER	CONC.
POLYNUCLEAR AROMATIC HYDROCARBONS(COMPONENT ANALYSIS)		0.1%

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
DIESEL OIL..C9-20	68334-30-5	21, 26

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL 6=IARC 1 11=TSCA 4 16=CA P65 CARC 21=LA RTK
2=ACGIH A1 7=IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=MI 293
3=ACGIH A2 8=IARC 2B 13=TSCA 5e 18=CA RTK 23=MN RTK
4=NTP CARC 9=OSHA CARC 14=TSCA 6 19=FL RTK 24=NJ RTK
5=NTP SUS 10=OSHA Z 15=TSCA 12b 20=IL RTK 25=PA RTK
26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

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16. OTHER INFORMATION

Precautionary Label Text:
CONTAINS DIESEL OIL.. C9-20
WARNING!
COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE NOSE, THROAT AND LUNG IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL
LUNG DAMAGE.
MAY CAUSE SKIN CANCER ON PROLONGED, REPEATED SKIN CONTACT. ANIMAL SKIN
ABSORPTION STUDIES RESULTED IN INCREASED MORTALITY, EFFECTS ON BODY WEIGHT, THE IMMUNE SYSTEM AND THE UNBORN CHILD. PROLONGED, REPEATED SKIN
CONTACT MAY CAUSE IRRITATION. DIESEL EXHAUST IS SUSPECT OF CAUSING LUNG
CANCER.
Keep away from heat and flame. Avoid prolonged or repeated overexposure by skin contact or inhalation. Use with adequate ventilation. Keep container closed. Keep out of reach of children. Approved portable containers must be properly grounded when transferring fuel.
FIRST AID: If inhaled, remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a bag-valve-mask device or use mouth-to-mouth resuscitation. In case of contact, remove contaminated clothing. Dry wipe the exposed skin and

cleanse with waterless hand cleaner and follow by washing thoroughly with soap and water. For those providing assistance, avoid further skin contact to yourself and others. Wear impervious gloves. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.
Empty container may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container.
All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.
Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm are created by the combustion of this product. Refer to product Material Safety Data Bulletin for further safety and health information.

USE: DIESEL FUEL
NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES
ARE NOT FORMULATED TO CONTAIN PCBS.

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
DIESEL OIL..C9-20	100	68334-30-5

****
For Internal Use Only: MHC: 1* 1* 1* 1* 1*, MPPEC: C, TRN: 159004-01, CMCS97: 979485, REQ: US - MARKETING, SAFE USE: C
EHS Approval Date: 12MAY1999
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Legally required information is given in accordance with applicable
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Mobil® The energy to make a difference™

33126-00 MOBIL REGULAR UNLEADED GASOLINE
MATERIAL SAFETY DATA BULLETIN

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL REGULAR UNLEADED GASOLINE
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037
24 - Hour Emergency (call collect): 609-737-4411
Product and SDS Information: 800-662-4525 856-224-4644
CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: HYDROCARBONS AND ADDITIVES
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

Substance Name	Wt%
GASOLINE (8006-61-9)	100

COMPONENT(S) OF PRODUCT INGREDIENTS INCLUDE:

METHYL T-BUTYL ETHER (1634-04-4)	15
ETHANOL (64-17-5)	11
XYLENE (1330-20-7)	10
ISOPENTANE (78-78-4)	9
TRIMETHYL BENZENE (25551-13-7)	8
TOLUENE (108-88-3)	5
BUTANE (106-97-8)	4
2-METHYLPENTANE (107-83-5)	4
PENTANE (109-66-0)	4
3-METHYLPENTANE (96-14-0)	2
BENZENE (71-43-2)	2
2,3-DIMETHYLBUTANE (79-29-8)	2
N-HEXANE (110-54-3)	2
ETHYL BENZENE (100-41-4)	2
3- METHYLHEXANE (589-34-4)	2
2- METHYLHEXANE (591-76-4)	1

METHYLCYCLOHEXANE (108-87-2) 1
NOTE: THIS MSDB ALSO COVERS REFORMULATED AND CARB PHASE 2 GASOLINE. The
concentration of the components shown above may vary substantially. Because of volatility considerations, gasoline vapor may have concentrations of components very different from those of liquid gasoline. The major components of gasoline vapor are: butane, isobutane, pentane and isopentane. Federal RFG (reformulated) and Carb Phase 2 gasoline will contain oxygenates such as MTBE or ethanol at a concentration to provide a minimum oxygen content of 1.5 Wt%. The reportable component percentages, shown in the Regulatory Information section, are based on API's evaluation of a typical gasoline mixture.
See Section 15 for European Label Information.
See Section 8 for exposure limits (if applicable).

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3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.
EFFECTS OF OVEREXPOSURE: Eye irritation, respiratory irritation, dizziness, nausea, loss of consciousness. Skin irritation.
Studies (sponsored by API) conducted in the U.S. examining the mortality experience (causes of death) of distribution workers with long-term exposure to gasoline have not found any gasoline-related health effects. Case reports of chronic gasoline abuse (such as gasoline sniffing) and chronic misuse of gasoline as a solvent or as a cleaning agent have reported a range of neurological effects (nervous system effects), sudden deaths from cardiac arrest (heart attacks), hematologic changes (blood effects) and leukemia. These effects are not expected to occur at exposure levels encountered in the distribution and use of gasoline as a motor fuel. Low viscosity material-if swallowed may enter the lungs and cause lung damage.
EMERGENCY RESPONSE DATA: Clear (May Be Dyed) Liquid. Extremely flammable. Vapor accumulation could flash and/or explode if in contact with open flame. DOT ERG No. : 128

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4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
SKIN CONTACT: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before

reuse.
INHALATION: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with bag-valve-mask device or use mouth-to-mouth resuscitation.
INGESTION: Seek immediate medical attention. Do not induce vomiting.
NOTE TO PHYSICIANS: Material if ingested may be aspirated into the lungs and can cause chemical pneumonitis. Treat appropriately.

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5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon Dioxide, Foam, Dry Chemical, Water Fog.
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area. For large spills, fire fighting foam is the preferred agent and should be applied in sufficient quantities to blanket the gasoline surface. Water spray may be used to flush spill away from exposures, but good judgment should be practiced to prevent spreading of the gasoline into sewers, streams or drinking water supplies. If a leak or spill has not ignited, apply a foam blanket to suppress the release of vapors. If foam is not available, a water spray curtain can be used to disperse vapors and to protect personnel attempting to stop the leak.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable. Vapor accumulation could flash and/or explode if in contact with open flame. Flash Point C(F): < -40(-40) (ASTM D-56). Flammable limits - LEL: 1.4%, UEL: 7.6%.
NFPA HAZARD ID: Health: 1, Flammability: 3, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

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6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.
PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Runoff may create fire or explosion hazard in sewer system. Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste

disposal facility in accordance with current applicable laws and
regulations, and product characteristics at time of disposal.
ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers
or drains and contact with soil.
PERSONAL PRECAUTIONS: See Section 8

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7. HANDLING AND STORAGE

HANDLING: NEVER SIPHON GASOLINE BY MOUTH. GASOLINE SHOULD NOT BE
USED
AS A SOLVENT OR AS A CLEANING AGENT. Use non-sparking tools and
explosion-proof equipment. Avoid contact with skin. Avoid
inhalation of vapors or mists. Use in well ventilated area away
from all ignition sources. PORTABLE CONTAINERS approved for
storing fuel must be placed on the ground and the nozzle must
stay in contact with the container when filling to prevent build
up and discharge of static electricity.
STORAGE: Drums must be grounded and bonded and equipped with
self-closing valves, pressure vacuum bungs and flame arresters.
Store away from all ignition sources in a cool area equipped with
an automatic sprinkling system. Outside or detached storage
preferred. Storage containers should be grounded and bonded.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use in well ventilated area with local exhaust
ventilation. Ventilation required and equipment must be
explosion proof. Use away from all ignition sources.
RESPIRATORY PROTECTION: Approved respiratory equipment must be used
when airborne concentrations are unknown or exceed the TLV.
EYE PROTECTION: If splash with liquid is possible, safety glasses with
side shields or chemical goggles should be worn.
SKIN PROTECTION: Impervious gloves should be worn. Good personal
hygiene practices should always be followed.

		---TWA---		----STEL---		NOTE
Substance Name (CAS-No.)	Source	ppm	mg/m3	ppm	mg/m3	
GASOLINE (8006-61-9)	OSHA	300	900	500	1500	
	ACGIH	300	890	500	1480	
METHYL T-BUTYL ETHER (1634-04-4)	ACGIH	40	144			

ETHANOL (64-17-5)
OSHA 1000 1900
ACGIH 1000 1880
XYLENE (1330-20-7)
O, M, P, -Isomers OSHA 100 435 150 655
O, M, P, -Isomers ACGIH 100 434 150 651
ISOPENTANE (78-78-4)
All Isomers ACGIH 600 1770
TRIMETHYL BENZENE
(25551-13-7)
OSHA 25 125
ACGIH 25 123
TOLUENE (108-88-3)
OSHA 100 375 150 560
Skin ACGIH 50 188
BUTANE (106-97-8)
OSHA 800 1900
ACGIH 800 1900
2-METHYLPENTANE (107-83-5)
Isomer of N-Hexane ACGIH 500 1760 1000 3500
PENTANE (109-66-0)
OSHA 600 1800 750 2250
All Isomers ACGIH 600 1770
3-METHYLPENTANE (96-14-0)
Isomer of N-Hexane ACGIH 500 1760 1000 3500
BENZENE (71-43-2)
OSHA 1 5
Skin ACGIH 0.5 1.6 2.5 8
2,3-DIMETHYLBUTANE
(79-29-8)
Isomer of N-Hexane ACGIH 500 1760 1000 3500
N-HEXANE (110-54-3)
OSHA 50 180
N-Hexane Skin ACGIH 50 176
Other Isomers ACGIH 500 1760 1000 3500
ETHYL BENZENE (100-41-4)
OSHA 100 435 125 545
ACGIH 100 434 125 543
3- METHYLHEXANE (589-34-4)
MOBIL 400 1640
2- METHYLHEXANE (591-76-4)
MOBIL 400 1640
METHYLCYCLOHEXANE
(108-87-2)
OSHA 400 1600
ACGIH 400 1610
NOTE: Limits shown for guidance only. Follow applicable regulations.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.
APPEARANCE: Liquid
COLOR: Clear (May Be Dyed)
ODOR: Gasoline
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): > 35(95)
MELTING POINT C(F): NA
FLASH POINT C(F): < -40(-40) (ASTM D-56)
FLAMMABILITY: NE
AUTO FLAMMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: > 400.0
VAPOR DENSITY: 3.0
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.79
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: NE
VISCOSITY AT 40 C, cSt: < 1.0
VISCOSITY AT 100 C, cSt: NA
POUR POINT C(F): NA
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

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10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Heat, sparks, flame and build up of static electricity.
INCOMPATIBILITY (MATERIALS TO AVOID): Halogens, strong acids, alkalies, and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.
HAZARDOUS POLYMERIZATION: Will not occur.

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11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---
ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
SKIN IRRITATION (RABBITS): Irritant. (Primary Irritation Index: 3 or greater but less than 5). ---Based on testing of similar products and/or the components.
OTHER ACUTE TOXICITY DATA: Inhalation of vapors/mists may cause respiratory system irritation. HAZARDS OF COMBUSTION PRODUCTS: Exposure to high concentrations of carbon monoxide can cause loss of consciousness, heart damage, brain damage and death. Exposure to high concentrations of carbon dioxide can cause simple asphyxiation by displacing oxygen. May be harmful or fatal if swallowed due to aspiration pneumonitis.
---OTHER TOXICOLOGY DATA---
Gasoline and Refinery Streams: Studies conducted by the American Petroleum Institute examined a reference unleaded gasoline for mutagenic, teratogenic and sensitization potential; no evidence of these hazards was found. However, isolated constituents of gasoline may display these or other potential hazards in laboratory tests. There were no significant adverse effects in three-month subchronic inhalation studies in rats or monkeys, or in a two-year skin cancer study in mice. Studies with laboratory animals have shown that gasoline vapors administered at high concentrations over a prolonged period of time caused kidney damage and kidney cancer in male rats and liver cancer in female mice. The kidney tumors resulted from formation of a compound unique to male rats and is not considered relevant to humans. The relationship of liver cancer in mice to humans is not known. Studies carried out by Mobil's Environmental and Health Sciences Laboratory on some of the major refinery streams from which gasoline is formulated support the results of the API studies. There was no evidence of significant adverse systemic or reproductive effects for light catalytic cracked naphthas and reformed naphthas. Components: Gasoline consists of a complex blend of petroleum/processing derived paraffinic, olefinic, naphthenic and aromatic hydrocarbons which include up to 5% benzene (with 1-2% typical in the U.S.), n-hexane, mixed xylenes,

toluene, ethylbenzene and trimethyl benzene. Repeated exposures to low levels of benzene have been reported to result in blood abnormalities including anemia and, in rare cases, leukemia in both animals and humans. Prolonged exposure to n-hexane may result in nervous system damage, including numbness of the extremities and, in extreme cases, paralysis. The adverse effects associated with these components have not been observed in studies with gasoline or the refinery streams from which it is formulated. Generally, human exposures to gasoline vapors are considerably less than those used in the animal toxicity studies. As far as scientists know, low level or infrequent exposures to gasoline vapor are unlikely to be associated with cancer or other serious diseases in humans. Methyl Tertiary Butyl Ether (MTBE) was tested for carcinogenicity, neurotoxicity, chronic, reproductive, and developmental toxicity. The NOAEL for all end points evaluated in three animal species was 400 ppm or greater. An increase in kidney tumors/damage and liver tumors was observed in animals exposed to high concentrations of MTBE. Some embryo/fetal toxicity and birth defects were observed in the offspring of pregnant mice exposed to maternally toxic doses of MTBE, however the offspring of exposed pregnant rabbits were unaffected. The significance of the animal findings at high exposures are not believed to be directly related to potential human health hazards in the workplace.

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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning for fuel value in compliance with applicable laws and regulations.
RCRA INFORMATION: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP).

BENZENE: 2.3200 PCT (TCLP)
FLASH: < -40(-40) C(F)

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14. TRANSPORT INFORMATION

USA DOT:
SHIPPING NAME: Gasoline
HAZARD CLASS & DIV: 3
ID NUMBER: UN1203
ERG NUMBER: 128
PACKING GROUP: PG II
STCC: NE
DANGEROUS WHEN WET: No
POISON: No
LABEL(s): Flammable Liquid
PLACARD(s): Flammable
PRODUCT RQ: NA
MARPOL III STATUS: NA
RID/ADR:
HAZARD CLASS: 3
HAZARD SUB-CLASS: 3(b)
LABEL: 3
DANGER NUMBER: 33
UN NUMBER: 1203
SHIPPING NAME: Hydrocarbons, liquid having a flash point below 21deg C
REMARKS: NA
IMO:
HAZARD CLASS & DIV: 3.1
UN NUMBER: 1203
PACKING GROUP: PG II
SHIPPING NAME: Gasoline
LABEL(s): Flammable Liquid
MARPOL III STATUS: NA
ICAO/IATA:
HAZARD CLASS & DIV: 3
ID/UN Number: 1203
PACKING GROUP: PG II
SHIPPING NAME: Gasoline
SUBSIDIARY RISK: NA
LABEL(s): Flammable Liquid

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15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, and EINECS/ELINCS.
EU Labeling:
Symbol: F+ T Extremely flammable, Toxic.

Risk Phrase(s): R12-45-38-65.
Extremely flammable. May cause cancer. Irritating to skin.
Harmful: may cause lung damage if swallowed.
Safety Phrase(s): S53-45-2-23-24-29-43-62.
Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Keep out of the reach of children. Do not breathe vapor. Avoid contact with skin. Do not empty into drains. In case of fire use carbon dioxide, foam, dry chemical or water fog. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Contains: Low Boiling Point Naphtha.
U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".
SARA (311/312) REPORTABLE HAZARD CATEGORIES:
FIRE CHRONIC ACUTE

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16. OTHER INFORMATION

Precautionary Label Text:
CONTAINS GASOLINE
DANGER!
EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY
CAUSE SKIN, NOSE, THROAT, AND LUNG IRRITATION, DIZZINESS, NAUSEA, AND LOSS OF CONSCIOUSNESS. LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL LUNG DAMAGE.
LONG-TERM EXPOSURE TO GASOLINE VAPOR HAS CAUSED KIDNEY AND LIVER CANCER
IN LABORATORY ANIMIALS.
Keep away from heat, sparks, and flame. Avoid all personal contact. Avoid prolonged breathing of vapor. Use with adequate ventilation. Keep container closed. Approved portable containers must be properly grounded when transferring fuel. For use as a motor fuel only. Misuse of gasoline may cause serious injury or illness. Never siphon by mouth. Not to be used as a solvent or skin cleaning agent.
FIRST AID: In case of contact, wash skin with soap and water. Remove contaminated clothing. Destroy or wash clothing before reuse. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.
Empty container may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container. All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.
This warning is given to comply with California Health and Safety Code 25249.6 and does not constitute an admission or a waiver of rights. This

product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm are created by the combustion of this product. Refer to product Material Safety Data Bulletin for further safety and health information.

USE: UNLEADED MOTOR FUEL
NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES
ARE NOT FORMULATED TO CONTAIN PCBS.

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
GASOLINE	100	8006-61-9

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For Internal Use Only: MHC: 1* 1* 1* 1* 2*, MPPEC: CF, TRN: 33126-00, CMCS97: 97C112, REQ: US - MARKETING, SAFE USE: S
EHS Approval Date: 17MAY2000

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Material Safety Data Sheet

Bentonite SDS

Section 1: Chemical Product and Company Identification
Product Name: Bentonite
Catalog Codes: SLB1441, SLB2935, SLB4435

CAS#: 1302-78-9
RTECS: CT9450000
TSCA: TSCA 8(b) inventory: Bentonite
CI#: Not applicable.
Synonym: Montmorillonite;
Chemical Name: Not available.
Chemical Formula:
(Al,Fe1.67Mg.33)Si10(OH)2Na(+)Ca(++)/2.33
Contact Information:
Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396
US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**
Order Online: ScienceLab.com
CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 1-281-441-4400
Section 2: Composition and Information on Ingredients
Composition:

Name	**CAS #**	**% by Weight**
Bentonite	1302-78-9	100

Toxicological Data on Ingredients: Bentonite LD50: Not available. LC50: Not available.
Section 3: Hazards Identification
Potential Acute Health Effects:
Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant), of
ingestion.
Potential Chronic Health Effects:
Hazardous in case of inhalation.
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
The substance is toxic to lungs.
Repeated or prolonged exposure to the substance can produce target organs damage.
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Section 4: First Aid Measures
Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.
Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious Skin Contact: Not available.
Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get
medical attention.
Serious Inhalation: Not available.
Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an
unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight
clothing such as a collar, tie, belt or waistband.
Serious Ingestion: Not available.
Section 5: Fire and Explosion Data
Flammability of the Product: Non-flammable.
Auto-Ignition Temperature: Not applicable.
Flash Points: Not applicable.
Flammable Limits: Not applicable.
Products of Combustion: Not available.
Fire Hazards in Presence of Various Substances: Not applicable.
Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions: Not applicable.
Special Remarks on Fire Hazards: Not available.
Special Remarks on Explosion Hazards: Not available.
Section 6: Accidental Release Measures
Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by
spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water
on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not
present at a concentration level above TLV. Check TLV on the SDS and with local authorities.
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Section 7: Handling and Storage
Precautions:
Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient

ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label
when possible.
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.
Section 8: Exposure Controls/Personal Protection
Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below
recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to
airborne contaminants below the exposure limit.
Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.
Gloves.
Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used
to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist
BEFORE handling this product.
Exposure Limits:
TWA: 10 from ACGIH (TLV) [United States]
Consult local authorities for acceptable exposure limits.
Section 9: Physical and Chemical Properties
Physical state and appearance: Solid.
Odor: Odorless.
Taste: Not available.
Molecular Weight: Not available.
Color: Beige. (Light.)
pH (1% soln/water): Not available.
Boiling Point: Not available.
Melting Point: Decomposes.
Critical Temperature: Not available.
Specific Gravity: 2.5 (Water = 1)
Vapor Pressure: Not applicable.
Vapor Density: Not available.
Volatility: Not available.
Odor Threshold: Not available.
Water/Oil Dist. Coeff.: Not available.
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Ionicity (in Water): Not available.
Dispersion Properties: Not available.
Solubility:
Very slightly soluble in cold water, hot water.
Insoluble in methanol, diethyl ether, n-octanol, acetone.

Section 10: Stability and Reactivity Data
Stability: The product is stable.
Instability Temperature: Not available.
Conditions of Instability: Not available.
Incompatibility with various substances: Not available.
Corrosivity: Not available.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur.
Section 11: Toxicological Information
Routes of Entry: Eye contact. Inhalation.
Toxicity to Animals:
LD50: Not available.
LC50: Not available.
Chronic Effects on Humans: Causes damage to the following organs: lungs.
Other Toxic Effects on Humans:
Hazardous in case of inhalation.
Slightly hazardous in case of skin contact (irritant), of ingestion.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.
Section 12: Ecological Information
Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may
arise.
Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.

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Special Remarks on the Products of Biodegradation: Not available.
Section 13: Disposal Considerations
Waste Disposal:
Section 14: Transport Information
DOT Classification: Not a DOT controlled material (United States).
Identification: Not applicable.
Special Provisions for Transport: Not applicable.
Section 15: Other Regulatory Information
Federal and State Regulations: TSCA 8(b) inventory: Bentonite
Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
Other Classifications:
WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
DSCL (EEC): R36- Irritating to eyes.
HMIS (U.S.A.):

Health Hazard: 2
Fire Hazard: 0
Reactivity: 0
Personal Protection: E
National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 0
Reactivity: 0
Specific hazard:
Protective Equipment:
Gloves.
Lab coat.
Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Splash goggles.
Section 16: Other Information
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References: Not available.
Other Special Considerations: Not available.
Created: 10/10/2005 08:14 PM
Last Updated: 11/06/2008 12:00 PM
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MATERIAL SAFETY DATA SHEET

2710 Wycliff Road
Effective Date: 1-04
Raleigh, North Carolina 27607
Replaces: 12-1-97
919-781-4550

I – PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME
CHEMICAL FORMULA
MOLECULAR WEIGHT
Natural Sand/Gravel
Mixture
Not Applicable

TRADE NAME
Gravel Sand or Gravel

SYNONYMS
DOT IDENTIFICATION NO.
Construction Aggregate
None

II – COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT(S)
CHEMICAL NAME
Silicon Dioxide
*
, SiO_2
Aluminum Oxide, Al_2O_3
Ferric Oxide, Fe_2O_3
Ferrous Oxide, FeO
Magnesium Oxide, MgO
Calcium Oxide, CaO
Sodium Oxide, Na_2O
Potassium Oxide, K_2O
Calcium Carbonate, $CaCO_3$
CAS REGISTRY NO
14808-60-7
1344-28-1
1309-37-1
1345-25-1
1309-48-4
1305-78-8
1313-59-3

12136-45-7
471-34-1
% by weight
(approx)
0-79
0-16
0-5
0-3
1-22
3-43
0-2
0-4
0-48
MSHA/OSHA PEL
(R) 10 mg/m
3
/(% SiO
2
+2)
§
(T) 15 mg/m
3
, (R) 5 mg/m
3
10 mg/m
3
-
15 mg/m
3
5 mg/m
3
-
-
(T) 15 mg/m
3
, (R) 5 mg/m
3
ACGIH TLV-TWA
0.05 mg/m
3
#
10 mg/m
3
5 mg/m
3
5 mg/m
3
10 mg/m
3
2mg/m
3
2mg/m
3
as NaOH
-
#
10 mg/m
3
*: The composition of SiO
2

may be up to 100% crystalline silica. (R): Respirable (T): Total §: Crystalline silica is normally measured as respirable dust. The OSHA standard also presents a formula for calculation of the PEL based on total dust: 30 mg/m^3 / (% SiO$_2$ +2). #: Particulate matter containing no asbestos and <1% crystalline silica.

III – HAZARDS IDENTIFICATION

Natural Sand/Gravel is a mixture of angular or round multicolored particles. It is odorless and not flammable. Respirable dust particles containing silicon dioxide may be generated by handling natural sand/gravel. Inhalation of excessive particulate matter may cause respiratory problems. Crystalline silica, a component of this product, has been designated as a Group I carcinogen by IARC.

Health Effects: The information below represents an overview of health effects caused by overexposure to one or more components in natural sand/gravel. The individual effects are described in Section XI.

Primary routes(s) of exposure:

■ Inhalation

Skin

Ingestion

EYE CONTACT:

Direct contact with dust may cause irritation by mechanical abrasion. Conjunctivitis may occur.

SKIN CONTACT:

Direct contact may cause irritation by mechanical abrasion. Some components of material are also known to cause mild corrosive effects to skin and mucous membranes.

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SKIN ABSORPTION:

Not expected to be a significant route of exposure.

INGESTION:

Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury. Ingestion of large amounts may cause gastrointestinal irritation and blockage.

INHALATION:

Dust may irritate nose, throat, mucous membranes, and respiratory tract by mechanical abrasion. Coughing, sneezing, chest pain, shortness of breath, inflammation of mucous membrane, and flu-like fever may occur following exposures in excess of appropriate exposure limits. Repeated excessive exposure may cause pneumoconiosis, such as silicosis and other respiratory effects.

Notes on Silicosis:

Use of natural sand and gravel for construction purposes is not believed to cause acute toxic effects. Repeated overexposures to respirable crystalline silica (quartz, cristobalite, tridymite) for periods as short as 6 months has caused acute silicosis.

Symptoms of acute silicosis include (but are not limited to): shortness of breath, cough, fever, weight loss, and chest pain. Acute silicosis is a rapidly progressive, incurable lung disease and is typically fatal.

Chronic exposure to respirable quartz-containing dust in excess of appropriate exposure limits has caused silicosis, a progressive
pneumoconiosis (lung disease). Restrictive and/or obstructive lung function changes may result from chronic exposure. Chronic
tobacco smoking may further increase the risk of developing chronic lung problems.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Inhaling respirable dust and/or crystalline silica may aggravate existing respiratory system disease(s) and/or dysfunctions.
Exposure to dust may aggravate existing skin and/or eye conditions. Smoking and obstructive / restrictive lung diseases may also
exacerbate the effects of excessive exposure to this product.
IV – FIRST AID MEASURES
EYES:
Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open.
Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material
from the eye(s). Contact a physician if irritation persists or develops later.
SKIN:
Wash with soap and water. Contact a physician if irritation persists or develops later.
INGESTION:
If person is conscious, give a large quantity of water to induce vomiting; however, never attempt to make an
unconscious person drink or vomit. Get medical attention.
INHALATION: Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if
irritation persists or develops later.
V – FIRE FIGHTING MEASURES
FLASHPOINT
Not Flammable
FLAMMABLE LIMITS IN AIR
Not Flammable
EXTINGUISHING AGENT
None required
UNUSUAL FIRE AND EXPLOSION HAZARD
Contact with powerful oxidizing agents may cause fire and/or explosions (see Section X of this SDS).
VI – ACCIDENTAL RELEASE MEASURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Persons involved in cleaning should first follow the precautions defined in Section VII of the SDS. Spilled materials, where
dust can be generated, may overexpose cleanup personnel to respirable quartz-containing dust. Wetting of spilled material and/or
use of respiratory protective equipment may be necessary. Do not dry sweep spilled material.
This product is not subject to the reporting requirements of Title III of SARA, 1986, and 40 CFR 372.

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VII – HANDLING AND STORAGE

This product is not intended or designed for, and should not be used as an abrasive blasting medium or for foundry applications.

Follow protective controls set forth in Section VIII of this SDS when handling this product.

Respirable quartz-containing dust may be generated during processing, handling and storage. Do not breathe dust.

Avoid contact with skin and eyes.

Do not store near food or beverages or smoking materials.

Do not stand on piles of materials; it may be unstable.

VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Ventilation: Use local exhaust, general ventilation or natural ventilation adequate to maintain exposures below appropriate exposure limits. If a person breathes large amounts of this material, move the exposed person to fresh air at once; other measures are usually unnecessary.

Other control measures: Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including (but not limited to) dust suppression (wetting), ventilation, process enclosure, and enclosed employee work stations.

EYE/FACE PROTECTION

Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated. If product contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this chemical.

SKIN PROTECTION

No personal protection recommended.

RESPIRATORY PROTECTION

Respirator Recommendations:

For respirable quartz levels that exceed or are likely to exceed the TLV, a NIOSH-approved 100 series particulate filter respirator must be worn. If respirable quartz levels exceed or are likely to exceed an 8hr-TWA of 0.5 mg/m^3, a NIOSH-approved air purifying, full-face respirator with a 100 series particulate filter must be worn. Respirator use must comply with applicable MSHA or OSHA standards, which include provisions for a user training program, respirator repair and cleaning, respirator fit testing, and other requirements. For additional information contact NIOSH at 1-800-356-4674.

Emergency or planned entry into unknown concentrations or IDLH conditions: Any self-contained breathing apparatus that has a full-face piece and is operated in a pressure-demand or other positive-pressure mode or any supplied-air respirator that has a full-

face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained
positive-pressure breathing apparatus.
Escape from unknown or IDLH conditions: Any air-purifying, full-face piece respirator with a high-efficiency particulate filter or
any appropriate escape-type, self-contained breathing apparatus.
GENERAL HYGIENE CONSIDERATIONS
There are no known hazards associated with this material when used as recommended. Following the guidelines in this SDS are
recognized as good industrial hygiene practices. Avoid breathing dust. Avoid skin and eye contact. Wash dust-exposed skin with
soap and water before eating, drinking, smoking, and using toilet facilities. Wash work clothes after each use.

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X – STABILITY AND REACTIVITY
STABILITY
Stable
CONDITIONS TO AVOID
Contact with incompatible materials (see below).
INCOMPATIBILITY (Materials to avoid)
Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and
oxygen difluoride may cause fire and/or explosions. Silica dissolves in hydrofluoric acid producing a corrosive gas -- silicon
tetrafluoride.
HAZARDOUS DECOMPOSITION PRODUCTS
Silica containing respirable dust particles may be generated by handling.
XI – TOXICOLOGICAL INFORMATION
This product is a mixture of components. The composition percentages are listed in Section II. Toxicological information for
each component is listed below:
Silicon Dioxide: It is comprised of amorphous and crystalline forms of silica. In some batches, crystalline silica may represent up
to 100% of silicon dioxide.
Respirable crystalline silica (quartz):
ACGIH TLV= 0.05 mg/m^3
MSHA and OSHA PEL:
Crystalline quartz (respirable): PEL-TWA 10 mg/m^3 / (%SiO$_2$ + 2).
Crystobalite: Use ½ the value calculated from the count or mass formulae for quartz.
Tridymite: Use ½ the value calculated from the formulae for quartz.
Other Particulates: TLV = 10 mg/m^3 (inhalable/total particulate, not otherwise classified), TLV = 3 mg/m^3

(respirable particulate,
not otherwise classified), OSHA PEL = 15 mg/m
3
(total particulate, not otherwise regulated), OSHA PEL = 5 mg/m
3
(respirable
particulate, not otherwise regulated)
ACGIH, MSHA, and OSHA have determined that adverse effects are not likely to occur in the workplace provided exposure
levels do not exceed the appropriate TLVs/PELs. Lower exposure limits may be appropriate for some individuals including
persons with pre-existing medical conditions such as those described below.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Inhaling respirable dust and/or crystalline silica may aggravate existing respiratory system disease(s) and/or dysfunctions.
Exposure to dust may aggravate existing skin and/or eye conditions.
Occupational exposure to free silica is known to produce silicosis, a chronic, disabling lung disease characterized by the formation
of silica-containing nodules of scar tissue in the lungs. Simple silicosis, in which the nodules are less than 1 cm in diameter is
IX
–
PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE AND ODOR
Angular or round multicolored particles; odorless.
SPECIFIC GRAVITY.
2.55-2.8
BOILING POINT
Not applicable
VAPOR DENSITY IN AIR (AIR = 1)
Not applicable
VAPOR PRESSURE
Not applicable
% VOLATILE, BY VOLUME
0%
EVAPORATION RATE
Not applicable
SOLUBILITY IN WATER
Negligible

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generally asymptomatic but can be slowly progressive, even in the absence of continued exposure. Silicosis leads to conditions such as lung fibrosis and reduced pulmonary function. The form and severity in which silicosis
manifests itself depends in part on the type and extent of exposure to silica dusts: chronic, accelerated and acute forms are all
recognized. In later stages the critical condition may become disabling and potentially fatal. Restrictive and/or obstructive lung

function changes may result from chronic exposure. A risk associated with silicosis is development of pulmonary tuberculosis
(silico-tuberculosis). Respiratory insufficiencies due to massive fibrosis and reduced pulmonary function, possibly with
accompanying heart failure, are other potential causes of death due to silicosis.
Symptoms of Silicosis: Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis can be
progressive, and symptoms may potentially appear years after exposures have ceased. Symptoms of silicosis may include (but are
not limited to): Shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished
chest expansion; reduction of lung volume; heart enlargement and/or failure.
Respirable dust containing newly broken particles has been shown to be more hazardous to animals in laboratory tests than
respirable dust containing older silica particles of similar size. Respirable silica particles which had aged for sixty days or more
showed less lung injury in animals than equal exposures of respirable dust containing newly broken pieces of silica.
There are reports in the literature indicating that crystalline silica exposure may be associated with adverse health effects involving
the kidney, scleroderma (thickening of the skin caused by swelling and thickening of fibrous tissue) and other autoimmune and
immunity-related disorders. Several studies of persons with silicosis or silica exposure also indicate or suggest increased risk of
developing lung cancer, a risk that may increase with the duration of exposure. Many of these studies of silicosis do not account
for lung cancer confounders, especially smoking. In October 1996, an IARC Working group re-assessing crystalline silica, a
component of this product, designated crystalline silica as a human carcinogen (Group 1carcinogen). The NTP indicates that
crystalline silica is reasonably anticipated to be a human carcinogen (Group 2). These classifications are based on sufficient
evidence of carcinogenicity in certain experimental animals and epidemiological studies of workers exposed to crystalline silica.
Crystalline silica in October 1996 was listed on the Safe Drinking Water and Toxic Enforcement ACT of 1986 (California
Proposition 65) as a chemical known to the state to cause cancer or reproductive toxicity.
Aluminum Oxide:
Exposure route: Eyes, skin, inhalation.
Target organs: Eyes, skin, respiratory system.
Acute effect: Animal studies with α-alumina were reported in 1941. This study found that alumina particles well below 40 µm in
diameter produced a “nuisance particulate” reaction in animals. Very fine Al_2O_3 powder was not fibrogenic in rats, guinea pigs, or
hamsters when inhaled for 6 to 12 months and sacrificed at periods up to 12 months following the last exposure.

Chronic effect/carcinogenicity: Aluminum oxide is not classifiable as to human carcinogen potential. Epidemiologic surveys have
indicated an excess of nonmalignant respiratory disease in workers exposed to aluminum oxide during abrasives production.
Ferric Oxide:
Exposure route: Inhalation.
Target organs: Respiratory system.
Acute effect: Benign pneumoconiosis with X-ray shadows indistinguishable from fibrotic pneumoconiosis. Experimental work in
animals exposed by intratracheal injection or by inhalation to iron oxide mixed with less than 5% silica has shown no evidence of
fibrosis produced in lung tissue.
Chronic effect/carcinogenicity: It is not generally accepted that inhalation or dermal exposure to iron oxide dust or fume poses a
carcinogenic risk to human beings. Not classifiable as to human carcinogen potential.
Ferrous Oxide:
Exposure route: Ingestion, inhalation, skin.
Target organs: Respiratory system, skin, eyes, neurological system.
Acute effect: Major findings: stupor, shock, acidosis, hematemesis, bloody diarrhea or coma. Minor findings: vomiting, diarrhea,

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mild lethargy.
Chronic effect/carcinogenicity: Irritability, nausea or vomiting, and normocytic anemia. When exposed to levels greater than 50
to 100 milligram per day, it can result in pathological deposition of iron in the body tissues causing fibrosis of the pancreas,
diabetes mellitus, and liver cirrhosis. Not classifiable as to human carcinogen potential.
Magnesium Oxide:
Exposure route: Inhalation, eye/skin contact.
Target organs: Eyes, respiratory system.
Acute effect: Magnesium oxide dust caused slight irritation of the eyes and nose, conjunctivitis, inflammation of the mucous
membrane, and coughing up discolored sputum after industrial exposures amongst workers exposed to an unspecified
concentration of MgO. Acute toxicity causes nausea, malaise, general depression and paralysis of respiratory, cardiovascular and
central nervous system.
Experiments with cats exposed to freshly formed MgO (magnesium ranging from 21 to 156 mg) fumes plus 10% carbon dioxide
showed uniform but slight hypothermia. These animals rapidly returned to normal and showed no subsequent ill effect upon
cessation of MgO inhalation.
Chronic effect/carcinogenicity: NIOSH has indicated that there may be a carcinogenic risk from exposure to MgO dust.
Calcium Oxide:
Exposure route: Inhalation, ingestion, skin/eye contact.

Target organs: Eyes, skin, respiratory system.
Acute effect: Direct contact of CaO with tissues, can result in burns and severe irritation because of its high reactivity and
alkalinity. Major complaints of workers exposed to lime consist of irritation of the skin and eyes, although inflammation of the
respiratory passages, ulceration and perforation of the nasal septum, and even pneumonia has been attributed to inhalation of the
dust.
Chronic effect/carcinogenicity: Not classifiable as to human carcinogen potential.
Sodium Oxide:
Exposure route: Inhalation, ingestion, skin/eye contact.
Target organs: Eyes, skin, respiratory system.
Acute effect: Corrosive – causes burns, irritation of skin, eyes, respiratory tract, extremely destructive of mucous membranes.
Chronic effect/carcinogenicity: Not classifiable as to human carcinogen potential.
Potassium Oxide
Exposure route: Inhalation, ingestion, skin/eye contact.
Target organs: Eyes, skin, respiratory system.
Acute effect: If inhaled, causes sore throat, cough, burning sensation and shortness of breath. Contact with skin produces pain and
blisters. Severe deep burns, redness and pain occur with eye contact. Ingestion of K_2O results in burning sensations, abdominal
pain, shock or collapse.
Chronic effect/carcinogenicity: Not classifiable as to human carcinogen potential.

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Calcium Carbonate:
Exposure route: Inhalation, skin/eye contact.
Target organs: Eyes, skin, respiratory system.
Acute effect: Irritation of the eyes, skin and respiratory system and cough. It has been reported that there may be a silicosis risk
when using impure limestone containing 3% to 20% quartz. However, it is claimed that pure calcium carbonate does not cause
pneumoconiosis. Adverse health effects have generally not been reported in literature among workers using $CaCO_3$.
Chronic effect/carcinogenicity: Not classifiable as a human carcinogen.
XII – ECOLOGICAL INFORMATION
No data available
XIII – DISPOSAL CONSIDERATIONS
WASTE DISPOSAL METHOD
Collect and reuse clean materials. Dispose of waste materials only in accordance with applicable federal, state, and local laws and
regulations.
XIV – TRANSPORT INFORMATION
DOT HAZARD CLASSIFICATION

None
PLACARD REQUIRED
None
LABEL REQUIRED
Label as required by the OSHA Hazard Communication standard {29 CFR 1910.1200(f)}, and applicable state and local
regulations.
XV – REGULATORY INFORMATION
Crystalline silica, a component of this product, is on the NTP and IARC carcinogen lists, but not on the OSHA carcinogen list. In
October 1996, an IARC Working group re-assessing crystalline silica, a component of this product, designated crystalline silica as
a human carcinogen (Group 1 carcinogen).
Crystalline silica in October 1996 was listed on the Safe Drinking Water and Toxic Enforcement ACT of 1986 (California
Proposition 65) as chemical known to the state to cause cancer or reproductive toxicity.
XVI – OTHER INFORMATION
ACGIH: American Conference of Governmental Industrial Hygienists
CFR: US Code of Federal Regulations
DOT: US Department of Transportation
IARC: International Agency for Research on Cancer
IDLH: Immediately Dangerous to Life and Health
NIOSH: National Institute for Occupational Safety and Health, US Department of Health and Human Services
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration, US Department of Labor

LEHIGH SOUTHWEST CEMENT COMPANY
MATERIAL SAFETY DATA SHEET
FOR
PORTLAND CEMENT

REVISED DATE: OCTOBER, 2002

1. PRODUCT/COMPANY IDENTIFICATION

Supplier:
Lehigh Southwest Cement Company
2300 Clayton Road, Suite 300
Concord, CA 94520
Phone (925) 609-6920
Fax (925) 609-6930
Contact Number:
(USE SALES OFFICE PHONE NUMBER)

Chemical Family: Calcium Compounds

Chemical Name and Synonyms:
Portland Cement (CAS # 65997-15-1), Hydraulic Cement Types I, I (WRA), II, III, V

Trade Name and Synonyms:
Lehigh Portland Cement Types I, II, III, V
Lehigh Plastic Cement

2. EMERGENCY AND FIRST AID

EMERGENCY INFORMATION: Portland cement is a light gray or white powder. When in contact with moisture in eyes or on skin, or when mixed with water, portland cement becomes highly caustic (pH > 12) and will damage or burn (as severely as third-degree) the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 10.

EYES: Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

SKIN: Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

INHALATION: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of portland cement require immediate medical attention.

INGESTION: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

ACCIDENTIAL RELEASE MEASURES Clean up spilled material without causing it to become airborne or mixed with water to limit potential harm. Wear appropriate personal protective equipment. Dispose of waste material according to local, state or federal regulations.

3. COMPOSITION INFORMATION

DESCRIPTION:

This product consists of finely ground portland cement clinker mixed with a small amount of gypsum (calcium sulfate dihydrate). The portland cement clinker is made by heating to a high temperature a mixture of substances such as limestone, sand, clay and shale. Portland cement is essentially hydraulic calcium silicates contained in a crystalline mass, not separable into individual components. Major compounds are:

$3CaO \cdot SiO_2$	Tricalcium Silicate	CAS #12168-85-3
$2CaO \cdot SiO_2$	Dicalcium Silicate	CAS #10034-77-2
$3CaO \cdot Al_2O_3$	Tricalcium Aluminate	CAS #12042-78-3
$4CaO \cdot Al_2O_3 \cdot Fe_2O_3$	Tetracalcium aluminoferrite	CAS #12068-35-8
$CaSO_4 \cdot 2H_2O$	Calcium Sulfate dihydrate (Gypsum)	CAS #7778-18-9 (CAS #13397-24-5)

4. HAZARDOUS INGREDIENTS

COMPONENT	OSHA PEL (8-Hour TWA)	ACGIH TLV-TWA (1995-1996)	NIOSH REL (8-Hour TWA)
Portland Cement (CAS #65997-15-1) 50 to 95% by weight	5 mg respirable dust/m³ 15 mg total dust/m³	10 mg total dust/m³	
Calcium sulfate (CAS #7778-18-9) [Gypsum (CAS #13397-24-5)] 0 to 10% by weight	5 mg respirable dust/m³ 15 mg total dust/m³	10 mg total dust/m³	
Iron oxide (CAS #1309-37-1) 0 to 15% by weight	10 mg/m³	5 mg/m³	
Calcium carbonate (CAS #1317-65-3) 0 to 5% by weight	5 mg respirable dust/m³ 15 mg total dust/m³	10 mg total dust/m³	
Magnesium oxide (CAS #1309-48-4) 0 to 5% by weight	15 mg total dust/m³	10 mg total dust/m³	
Calcium oxide (CAS #1305-78-8) 0 to 5%[1] by weight	5 mg/m³	2 mg/m³	
Crystalline silica (CAS #14808-60-7) 0 to 5% by weight	10 mg of respirable dust/m³ / % SiO_2 + 2 30 mg of total dust/m³ / % SiO_2 + 2 250 million particles/ft³ / % SiO_2 + 5	0.05 mg respirable quartz/m³	0.05 mg respirable quartz dust/m³

TRACE INGREDIENTS:

Due to the use of substances mined from the earth's crust, trace amounts of naturally occurring, potentially harmful constituents may be detected during chemical analysis. Portland cement may contain up to 0.75% insoluble residue. A small amount of this residue includes free crystalline silica. Portland cement also may contain trace (<0.05%) amounts of chromium salts or compounds (including hexavalent chromium) or other metals (including nickel compounds) found to be hazardous or toxic in some chemical forms. These metals are present mostly as trace substitutions within the principal minerals. Other trace constituents may include potassium and sodium sulfate compounds.

[1] If Portland/Lime blended product "0 to 25%" values.

5. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

NOTE: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in Section 10.

EYE CONTACT:

(Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea. Eye contact by larger amounts of dry powder or splashes of wet portland cement may cause effects ranging from moderate eye irritation to chemical burns and blindness.

SKIN CONTACT:

(Acute) Exposure to dry portland cement may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure.

(Chronic) Dry portland cement coming in contact with wet skin or exposure to wet portland cement may cause more severe skin effects, including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns.

(Acute/Chronic) Some individuals may exhibit an allergic response upon exposure to portland cement. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.

INHALATION:

(Acute) Exposure to portland cement may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system. Pre-existing upper respiratory and lung diseases may be aggravated by inhalation of portland cement.

(Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

INGESTION:

(Acute/Chronic) Internal discomfort or ill effects are possible if large quantities are swallowed.

CARCINOGENIC POTENTIAL:

Portland cement is not recognized as a carcinogen by NTP, OSHA, or IARC. However, it may contain trace amounts of heavy metals recognized as carcinogens by these organizations. In addition, IARC classifies crystalline silica, a trace constituent, as a known human carcinogen (Group I). NTP has characterized respirable silica as "reasonably anticipated to be a carcinogen." (See also Section 13.)

6. PHYSICAL/CHEMICAL DATA

APPEARANCE/ODOR:	Gray, white or colored powder, odorless	PHYSICAL STATE:	Solid (Powder)
BOILING POINT:	> 1000°C	MELTING POINT:	Not applicable
VAPOR PRESSURE:	Not applicable	VAPOR DENSITY:	Not applicable
pH (IN WATER) (ASTM D 1293-95)	12 to 13	SOLUBILITY IN WATER:	Slightly soluble (0.1% to 1.0%)
SPECIFIC GRAVITY (H_2O = 1.0):	3.15	EVAPORATION RATE:	Not applicable

7. FIRE AND EXPLOSION

FLASH POINT:	None	LOWER EXPLOSIVE LIMIT:	None
AUTO IGNITION TEMPERATURE:	Not combustible	UPPER EXPLOSIVE LIMIT:	None
FLAMMABLE LIMITS	Not applicable	SPECIAL FIRE FIGHTING PROCEDURES:	None
EXTINGUISHING MEDIA:	Not combustible	UNUSUAL FIRE AND EXPLOSION HAZARDS:	None
HAZARDOUS COMBUSTION PRODUCTS:	None		

8. STABILITY AND REACTIVITY DATA

STABILITY: Product is stable. Keep dry until used.

CONDITIONS TO AVOID: Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.

INCOMPATIBILITY: Wet portland cement is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.

HAZARDOUS DECOMPOSITION: Will not occur.

HAZARDOUS POLYMERIZATION: Will not occur.

9. PRECAUTIONS FOR HANDLING, STORAGE AND DISPOSAL

HANDLING AND STORAGE Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section 10.

SPILL: Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate container for disposal or use. Avoid inhalation of dust and contact with skin and eyes. Use exposure control and personal protection methods as described in Section 10.

DISPOSAL: Comply with all applicable local, state and federal regulations for disposal of unusable or contaminated materials. Dispose of packaging/containers according to local, state and federal regulations.

10. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air. If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.
EYE PROTECTION:	Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environments and unpredictable environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products.
SKIN PROTECTION:	Wear impervious abrasion- and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with dry portland cement or clothing dampened with moisture mixed with portland cement, and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

11. TRANSPORTATION DATA

Portland cement is not hazardous under U.S. DOT regulations.

12. TOXICOLOGICAL AND ECOLOGICAL INFORMATION

For a description of available, more detailed toxicological and ecological information, contact Lehigh Cement Company.

13. OTHER REGULATORY INFORMATION

Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:	Portland cement is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.
Status under CERCLA/Superfund, 40 CFR 117 and 302:	Not listed.
Hazard Category under SARA (Title III), Sections 311 and 312:	Portland cement qualifies as a hazardous substance with delayed health effects.
Status under SARA (Title III), Section 313:	Maybe subject to reporting requirements under Section 313. Contact sales office for further information.
Status under TSCA (as of May 1997):	Some substances in portland cement are on the TSCA inventory list.
Status under the Federal Hazardous Substances Act:	Portland cement is a hazardous substance subject to statutes promulgated under the subject act.

Status under California Proposition 65:	This product contains crystalline silica, a substance known to the State of California to cause cancer. This product also may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects or other reproductive harm.

14. OTHER INFORMATION

This MSDS provides information on various types of portland cement products. A particular product's composition may vary from sample to sample. The information provided herein is believed by Lehigh Cement Company to be accurate at the time of preparation or prepared from sources believed to be reliable. Health and safety precautions in this data sheet may not be adequate for all individuals or situations. Users have the responsibility to comply with all laws and procedures applicable to the safe handling and use of the product, to determine the suitability of the product for its intended use, and to understand possible hazards associated with mixing portland cement with other materials. This product neither contains nor is directly manufactured with any controlled ozone depleting substances, Class I and II. SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY LEHIGH CEMENT COMPANY.

ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygienists
ASTM	American Society for Testing and Materials
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
ft^3	Cubic foot
IARC	International Agency for Research on Cancer
m^3	Cubic meter
mg	Milligram
MSHA	Mine Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average

Material Safety Data Sheet: **Simple Green® All-Purpose Cleaner**
Simple Green® Scrubbing Pad
Version No. 1300509A Date of Issue: January 2009 *ANSI-Z400.1-2003 Format*

Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Simple Green® All-Purpose Cleaner
Simple Green® Scrubbing Pad
Additional Name: Simple Green® Concentrated Cleaner/Degreaser/Deodorizer

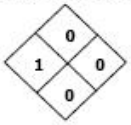
Manufacturer's Product Code Numbers: **Please refer to page 4*

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Harbour, CA 92649 USA
Telephone: 800-228-0709 • 562-795-6000 Fax: 562-592-3830
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Use of Product: An all purpose cleaner and degreaser used diluted in water for direct, spray and dip tank procedures. Scrubbing pad is used with water for manual scrubbing applications. Both are for cleaning water-safe surfaces.

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Mild eye irritant.
Simple Green® is a dark green liquid with a sassafras odor. Scrubbing Pad is a green fibrous rectangle.



HMIS Rating:
Health = 1 = slight
Fire = 0
Reactivity, and Special = 0 = minimal

Eye Contact: Mild Eye Irritant.

Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Under this condition, use of gloves or skin moisturizer after washing may be indicated.

Ingestion: May cause stomach or intestinal upset if swallowed (due to detersive properties.)

Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present when using Simple Green® over a prolonged period of time. Open windows or ventilate via fan or other air-moving equipment if necessary.

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Medical Conditions: No medical conditions are known to be aggravated by exposure to Simple Green®. Dermal-sensitive users may experience mild but reversible reactions.

UN Number: Not Required **Dangerous Goods Class:** Non-hazardous

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

The only ingredient of Simple Green® with established exposure limits is undiluted 2-butoxyethanol (<4%) (Butyl Cellosolve; CAS No. 111-76-2) [*1% for Scrubbing Pad*]: the ACGIH TLV-TWA is 20 ppm (97 mg/m^3). Based upon chemical analysis, Simple Green® contains no known EPA priority pollutants, heavy metals or chemicals listed under RCRA, CERCLA, or CWA. Analysis by TCLP (Toxicity Characteristic Leaching Procedure) according to RCRA revealed no toxic organic or inorganic constituents.

All components of Simple Green® are listed on the TSCA Chemical Substance Inventory.
This product does not contain any ingredients covered by the provisions of 29 CFR 1910.1200.

Section 4: FIRST AID MEASURES

Eye Contact:	Reddening may develop. Immediately rinse the eye with large quantities of cool water; continue 10-15 minutes or until the material has been removed; be sure to remove contact lenses, if present, and to lift upper and lower lids during rinsing. Get medical attention if irritation persists.
Skin Contact:	Minimal effects, if any; rinse skin with water, rinse shoes and launder clothing before reuse. Reversible reddening may occur in some dermal-sensitive users; thoroughly rinse area and get medical attention if reaction persists.
Swallowing;	Essentially non-toxic. Give several glasses of water to dilute; do not induce vomiting. If stomach upset occurs, consult physician.
Inhalation:	Non-toxic. Exposure to concentrate may cause mild irritation of nasal passages or throat; remove to fresh air. Get medical attention if irritation persists.

Section 5: FIRE FIGHTING MEASURES

Simple Green® is stable, not flammable, and will not burn. No special procedures required.

Flash Point/Auto-Ignition: Not flammable.
Flammability Limits: Not flammable.
Extinguishing Media: Not flammable/non-explosive.
Special Fire Fighting Procedures: None required.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

Method for cleaning up: Recover usable material by convenient method, residual may be removed by wipe or wet mop. If necessary, unrecoverable material may be washed to drain with large quantities of water.

Section 7: HANDLING AND STORAGE

No Special precautions are required. **This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations.** Simple Green® requires no special labeling or placarding to meet U.S. Department of Transportation requirements.

UN Number: Not Required **Dangerous Goods Class:** Non-hazardous

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	The Simple Green® formulation presents no health hazards to the user when used according to label directions for its intended purposes. Mild skin and eye irritation is possible (please see Eye contact and Skin contact in section IV.) No special precautionary measures required under normal use conditions.
Ventilation:	No special ventilation, precautions or respiratory protection is required during normal use. Large-scale use indoors should provide an increased rate of air exchange.
Human Health Effects or Risks From Exposure:	Adverse effects on human health are not expected from Simple Green®, based on 20 years of use of Simple Green® without reported adverse health incidence in diverse population groups, including extensive use by inmates of U.S. Federal prisons in cleaning operations.
Eye protection:	Simple Green® is a mild eye irritant; mucous membranes may become irritated by concentrate. Eye protection not generally required. Wash hands after using wipes.
Skin protection:	Simple Green® is not likely to irritate the skin in the majority of users. Repeated daily application to the skin without rinsing, or continuous contact on the skin may lead to temporary, but reversible, irritation. Rinse completely from skin after contact.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION – continued –

General hygiene conditions: There are no known hazards associated with this material when used as recommended.
The following general hygiene considerations are recognized as common good industrial hygiene practices:

- Avoid breathing vapor or mist.
- Avoid contact with eyes.
- Wash thoroughly after handling and before eating, drinking, or smoking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Cleaner is a dark green liquid, pad is a fibrous green matrix; both exhibit a sassafras odor.			
Specific Gravity:	1.010 ± 0.010	**Vapor Pressure:**	18 mm Hg @ 20°C; 23.5 mmHg @ 26°C
Evaporation:	>1 (butyl acetate = 1)	**Vapor Density:**	1.3 (air = 1)
Water Solubility:	100%	**Density:**	8.5 lbs/gallon
Boiling Point:	100.6°C (212°F)	**pH:**	9.5 ± 0.3
Ash Content:	At 600°F: 1.86% by weight	**Nutrient Content:** Phosphorus: 0.3% by formula Nitrogen <1.0% by weight (fusion and qualitative test for ammonia) Sulfur: 0.6% by weight (barium chloride precipitation method)	
Freezing Point: Approx -9 °C (16 °F) *If product freezes, it will reconstitute without loss of efficacy when brought back to room temperature and agitated.*			
VOC Composite Partial Pressure: 0.006 mmHg @ 20°C			
Volatile Organic Compounds (VOCs): CARB Method 310 3.8% SCAQMD Method 313 2.8%		Cleaner meets CARB & BAAQMD regulations. Cleaner must be diluted 1:1 with water to Meet SCAQMD Rule 1171 & Rule 1122 VOC requirements for solvent cleaning operations. [*Scrubber VOCs = 3.3% prior to dilution w/water*]	

Section 10: STABILITY AND REACTIVITY

Stability: Stable
Materials to Avoid: None known
Hazardous Decomposition Products: None expected

Section 11: TOXICOLOGICAL INFORMATION

Toxicology information is based on chemical profile of ingredients and extrapolation of data from similar formulas.

Acute Toxicity: Oral LD_{50} (rat) >5 g/kg body weight* **Calculation from OECD series on testing and assessment number 33, Chapter 3.2*
Dermal LD_{50} (rabbit) >2 g/kg body weight

Eye Irritation: Moderate/Mild reversible eye irritation may occur based on relevant laboratory studies. This potential is reduced by immediate rinsing of eyes in case of eye contact.

Dermal Irritation: Mild, reversible skin irritation may occur based on relevant laboratory studies. A 6-hour exposure to human skin under a patch did not produce irritation

Repeat Exposure Via Skin Contact: Based on relevant laboratory studies, no toxic effects are expected to be associated with daily skin exposures (with up to 2 g/kg/day tested for 13 weeks on rabbits). Skin irritation may, however, occur with repeated or prolonged exposures.

Reproductive Effects Assessment: Based on relevant laboratory studies (CD-1 mouse 18-week fertility assessment continuous breeding), no adverse effects on reproduction, fertility, or health of offspring are expected.

Material Safety Data Sheet: **Simple Green® All-Purpose Cleaner**
Simple Green® Scrubbing Pad

Version No. 1300509A Date of Issue: January 2009 *ANSI-Z400.1-2003 Format*

Section 12: ECOLOGICAL INFORMATION

Hazard to wild animals & aquatic organisms: Low, based on toxicological profile.

Biodegradability: Readily biodegradable based on biodegradation profile,
PRO/FT CBT-AC 014-7 "Ready Biodegradability: Closed Bottle Test" OECD, and OECD 302B laboratory tests

Environmental Toxicity Information: It is important not to allow the runoff from cleaning into closed systems such as decorative ponds. Always protect closed systems with tarps or dikes if necessary.

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal laws. Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

This product is non-hazardous for transport according to the U.S. Department of Transportation Services
UN Number: Not required Dangerous Goods Class: Non-hazardous

Section 15: REGULATORY INFORMATION

*Reportable components:

All components are listed on:	EINECS and TSCA Inventory
No components listed under:	Clean Air Act Section 112
SARA:	This material contains 2-Butoxyethanol, < 4%, (CAS# 111-76-2) which is subject to the reporting requirements of Section 313 of SARA Title III and 49 CFR Part 373.

RCRA Status:	Not a hazardous waste.	CERCLA Status:	No components listed
TSCA TRI Reporting:	Not required / Not listed	CA PROP. 65 Status:	No components listed

Section 16: OTHER INFORMATION

Questions about the information found on this MSDS should be directed to:
SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT
15922 Pacific Coast Hwy. Huntington Harbour, CA 92649

Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri] *Fax:* 562/592-3830 *Email:* infoweb@simplegreen.com

CAGE CODE 1Z575
GSA/FSS - CONTRACT NO. GS-07F-0065J
National Stock Numbers & Industrial Part Numbers:

	Part Number	NSN	Size
Simple Green	13012	7930-01-342-5315	24 oz spray (12/case)
	13005	7930-01-306-8369	1 Gallon (6/case)
	13006	7930-01-342-5316	5 Gallon
	13016	7930-01-342-5317	15 Gallon
	13008	7930-01-342-4145	55 Gallon
Scrubbing Pad	Part Number	NSN	Size
	10224	7930-01-346-9148	Each (24/case)

Retail Numbers:

Part Number	Size
13002	16 oz Trigger (12/case)
13005	1 Gallon (6/case)
13013	24 oz Trigger (12/case)
13014	67 oz / 2 L (6/case)
13033	32 oz Trigger (12/case)

** part number is for both industrial and retail*

****International Part Numbers May Differ.**

DISCLAIMER: The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.

Attachment D

Pre-Entry Briefing Attendance Sheet

Health and Safety Plan Pre-Entry Briefing Attendance Form
Remedial Investigation, Brownfield Cleanup Program
Third Avenue Yard, Brooklyn, New York

Conducted by:		**Date Performed:**	
Topics Discussed:	1. Review of the content of the HASP (Required)		
	2.		
	3.		
	4.		

Printed Name	**Signature**	**Representing**

Attachment E

Con Edison Accident Investigation Report Form

CONSOLIDATED EDISON COMPANY OF NEW YORK
CONSTRUCTION EH&S
CONTRACTOR INJURY REPORT

Injury Date: _____ *Time of Injury:* _____ *Work Location:* _____

Date Reported: _____ *Time Reported:* _____

Name of Injured: _____ *Contractor Co:* _____

Home Address: _____

Date of Birth: _____ *SS# (Last 4 digits):* _____ *Length of Svce:* _____

Supervisor: _____ *Phone:* _____ *Shift:* _____

PART OF BODY
Be as specific as possible (e.g. right index finger, left foot, etc.)

_____	1. Head	_____	15. Chest
_____	2. Nose	_____	16. Abdomen
_____	3. Ears	_____	17. Back
_____	4. Eyes	_____	18. Hip
_____	5. Mouth	_____	19. Knee
_____	6. Face	_____	20. Ankle
_____	7. Jaw	_____	21. Leg
_____	8. Neck	_____	22. Foot
_____	9. Shoulder	_____	23. Toe
_____	10. Elbow	_____	24. Body
_____	11. Wrist	_____	25. Heart
_____	12. Arm	_____	26. Lungs
_____	13. Hand	_____	27. Skin
_____	14. Finger	_____	28. Throat

NATURE OF INJURY / ILLNESS

_____	1. Laceration	_____	9. Burns
_____	2. Puncture	_____	10. Shock
_____	3. Contusion / Bruise	_____	11. Inhalation
_____	4. Sprain / Strain	_____	12. Infection
_____	5. Fracture / Dislocation	_____	13. Hernia
_____	6. Concussion	_____	14. Skin Disorder
_____	7. Amputation	_____	15. Irritation
_____	8. Foreign Matter	_____	16. Unconsciousness

INJURY CLASSIFICATION

Medical Treatment _____
Restrictions (if yes, please describe): _____
Lost Time _____
First Aid _____
Non-recordable (FYI) _____

TYPE OF INCIDENT

_____	1. Animal	_____	10. Falling Objects	_____	19. Stepped In	_____	28. Steam
_____	2. Insect	_____	11. Gas / Fumes	_____	20. Caught Between	_____	29. Heat
_____	3. Electric flash	_____	12. Handling Objects	_____	21. Altercation	_____	30. Sun
_____	4. Electric contact	_____	13. Pushing Objects	_____	22. Improper Body Pos	_____	31. Chemicals
_____	5. Burns (Other)	_____	14. Pulling Objects	_____	23. Vehicle Accident	_____	32. Plants
_____	6. Slip	_____	15. Lifting Objects	_____	24. Improper Tool Use	_____	33. Carrying Obj
_____	7. Trip	_____	16. Striking Objects	_____	25. Flames	_____	34. Hearing Loss
_____	8. Fall	_____	17. Struck By Objects	_____	26. Smoke	_____	35. Repetitive Motion
_____	9. Flying Objects	_____	18. Stepped On	_____	27. Vapors	_____	36. Other

Describe nature, extent and type of injury (if not listed above):

Describe fully how injury was sustained:

Witnesses (Name & Address): 1) _____
2) _____

Hospital: _____ Address: _____

Physician: _____ Admitted to Hospital: _____YES _____NO

Treatment Received: _____

Report Prepared By: _____ Emp #: _____ Phone: _____ Date: _____

CCI / Supervisor: _____ Emp #: _____ Phone: _____

EH&S Rep: _____ Emp #: _____ Phone: _____

PO # _____

If you cannot e-mail the form, then you may fax it to: Construction EHS&T at 917-534-4490

Attachment F

AECOM's Supervisor Report of Incident Form

Supervisor's Report of Incident

1. Seek immediate medical attention if necessary.
2. Employee must report **all** incidents to their supervisor **immediately**.
3. Supervisor calls the Incident, Injury and Near Miss Reporting Line at **(800) 348-5046**.

Section 1 - Organization Information

Region: ☐West ☐ Midwest ☐ Southwest/Mountain ☐ Southeast ☐ Mid-Atlantic ☐ Northeast	District:	Section/Dept Number:
Business Line: ☐ Infrastructure-Water ☐ Infrastructure-Transportation ☐ Infrastructure-Energy & Power ☐ PDD-Facilities ☐ PDD-Design ☐ Environmental		Office Name:
Client Name:		Project Number:
Project Name:		

Section 2 - Type of Incident (**SRI Sections to be Completed**)

☐ Injury/ illness (Sections 3, 4, and 7)	☐ Vehicle Incident (Sections 3, 4, 5, and 7)	☐ Property Damage (Sections 3, 4, 6 and 7)	☐Environmental Spill/Release (Sections 3, 4, and 7)
☐ Regulatory Inspection or Notification: (Sections 3, 4,7)			☐ Other (describe)

Section 3 – Contact/Incident Information

Employee/Claimant Name:		Employee Job Title:	☐ Full-Time Employee ☐ Subcontractor/Subconsultant ☐ Temp Agency Employee ☐ Part-Time Employee ☐ Third Party Employee
Work Phone:	Cell Phone:	Home Phone:	Employee Number:
Date/Time of Incident:		Date/Time Reported to Supervisor:	
Street Address of Incident or approximately:		City:	State/Zip:
Body Part Injured:		Type of Treatment: Medical/hospital or doctor ☐ First Aid Only ☐	

Medical Facility Contact Info: (Name, Address, Phone)

Section 4 - Descriptions of Incident *(employee, supervisor and witness statements)*

Employee Description of Incident: *(use additional paper if necessary)*	
Employee Signature:	**Date and Time:**

Supervisor Description of Incident: (*Supervisor signs in Section 7*) (*use additional paper if necessary*)

Witness Name :	Witness Address:	Witness Phone No.:
Witness Description of the Incident: (*use additional paper if necessary*)		
Witness Signature:		***Date and time:***

Section 5 - Vehicle Incident Information *(fill out for motor vehicle incidents only)*

5a - AECOM Driver Name:		Drivers License #:	State Issued:	Expiration Date:	
Vehicle Year:	Make:	Model:	Color:	License Plate:	State:
VIN Number:					
AECOM Vehicle was: ☐ AECOM Owned ☐ Rented ☐ Leased ☐ Personal Vehicle		**Who was involved?** ☐ AECOM Vehicle*(Section 5a)* ☐ Another Vehicle*(Section 5b)* ☐ Pedestrian ☐ Property			
Use of Vehicle at Time of Incident: ☐ Office Visit ☐ Site Visit ☐ Client Meetings ☐ Field Work ☐ Personal ☐ Other_____			Vehicle Type: ☐ Commercial Motor Vehicle ☐ Non Commercial Motor Vehicle		

5b - Name of Other Driver:		Address:	City:	State/Zip:	
Work Phone:		Cell Phone:			
Date of Birth:	Drivers License #:	State Issued:	Expiration Date:		
Vehicle Year:	Make:	Model:	Color:	License Plate:	State:
VIN Number, Insurance Company Name, Insurance Policy Number:					

If *Vehicle Owner* is different from driver then complete owner's contact information	**Owner Name:**	
	Address, City, State, Zip:	
	Work Phone:	Cell Phone:
Authorities contacted? ☐ Yes ☐ No	If so, who responded?	
Citations Issued? ☐ Yes ☐ No	Type of Citation:	Person Cited:

Section 6 - General Liability (*Fill out for property damage only*)

Description of damaged property:	
Where can the property be seen?	
Property Owner Name:	
Address, City, State, Zip:	
Work Phone:	Cell Phone:

Section 7- Signatures

Supervisor

Print Name:	Signature:	Date:	Telephone:

Office/Location Manager

Print Name:	Signature:	Date:	Telephone:

Regional EH&S Manager

Print Name:	Signature:	Date:	Telephone:
Comments:			

Attention: This form must be completed and forward to the Regional SH&E Manager within one (1) business day following the occurrence of the incident.

Attachment G

Con Edison-Corporate Environmental, Health and Safety Procedures

Attachment A

Health and Safety Plan Receipt and Acceptance Form

Health and Safety Plan Receipt and Acceptance Form

PCB Site Investigation

Third Avenue Yard South USTs
Brooklyn, New York

I have received a copy of the Health and Safety Plan prepared for the above referenced site, I have been given a full Health and Safety Plan Review by AECOM, read and understand its content and I agree that I will abide by its requirements.

Name	Signature	Company	Date

Attachment B

Task Hazard Analysis Form

Job Safety Analysis

Project Name	3rd Ave PCB WP	**Project Number**	60488417
Client	CON EDISION	**Location**	|
Start Date	3/8/2016	**End Date**	
Field Supervisor	Foster, Celeste	**Project Manager**	Hunt, Claire
Region	New York City Metro (10)	**Business Line**	Environment
Task Name	Monitoring well installation	**Task Frequency**	

Associated Safe Work Plan, Health and Safety Plan or other project safety plan:
PCB Site Investigation Work Plan

Job Events

Travel

Drive Vehicle to Site

Hazards

1. Driving, vehicle

Risk: medium

Site Specific Primary Controls:

Complete a pre-use visual inspection. No hand-held electronic devices. Be aware of road conditions and drive only to your comfort level.

Required Trainings:

Vehicle and Driver Awareness eLearning (AECOM)

Key SOPs:

S3NA-005-PR Driver and Vehicle Safety Program; S3NA-205-PR, Equipment Inspections

PPE:

Have a radio, cell phone or other communication device for emergency use

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

Existing Site Hazards

Moving Equipment and Vehicles

Hazards

1. Traffic (working around moving traffic; non-roadways/highways)

Risk: medium

Site Specific Primary Controls:

Maintain a safe distance from moving vehicles/equipment, visual contact with drivers and operators. Stage activities away from vehicles and paths of travel.

Required Trainings:

Traffic Safety Awareness Training (AECOM)

PPE:

High visibility vests, traffic control and warning devices as needed.

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

2. Slip, trip, fall

Risk: medium

Site Specific Primary Controls:

Take inventory of your surroundings noting any conditions which may pose a slip, trip or fall hazard. Clear and walk your pathway prior to work beginning. Make any corrective actions to eliminate hazards, erect barricades or place warning signs and cones to raise awareness to hazards that can't be engineered out. Evaluate work area and access routes for locations where fall prevention may be beneficial to field staff. Install low or zero-impact fall protection (e.g., stake-supported railings, cable, or ropes) as appropriate to provide handholds. Maintain strong housekeeping habits. Keep worksites clean and free from debris, spills or other slip/trip hazards.

Key SOPs:
S3NA-307-PR Housekeeping, Worksite

PPE:
Footwear appropriate to the site
All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

3. Heat or sun exposure
Risk: medium
Site Specific Primary Controls:
Buddy system; heat stress monitoring; heat stress control plan (including shelters, work rotation, methods of cooling)

Required Trainings:
Heat Stress Awareness Training

Key SOPs:
S3NA-511-PR Heat Stress Prevention

PPE:
Hat; sunglasses; extra water; sunscreen
All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

4. Underground Utilities / Ground Disturbance
Risk: high
Site Specific Primary Controls:
Do not dig until all underground lines (within 100 feet of work area) have been located and marked. Expose all lines (within 15 feet) by hand before excavating.

Required Trainings:
Underground Utility Avoidance Awareness Training

Key SOPs:
S3NA-417-PR Utilities, Underground;; S3NA-303-PR Excavation and Trenching

PPE:
Hard hat; safety boots; reflective vest
All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

AECOM Activities and Hazards
Drilling Oversite

Hazards

1. Drill rigs (other onsite operators)
Risk: high
Site Specific Primary Controls:
All equipment/rigs will have undergone a daily inspection. Contractors have direct control over the application and operation of all equipment. Maintain good housekeeping.

Required Trainings:
All staff shall be provided with on-site orientation to the rig, emergency shut-off location,and its operator.

Key SOPs:
S3NA-405-PR Drilling, Boring and Direct Push Probing; S3NA-205-PR, Equipment Inspections;; S3NA-213-PR Subcontractors

PPE:
Hard hat; safety boots; reflective vest; eye protection/safety glasses and/or goggles
All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

2. PCBs

Risk: medium

3. Power tools

Risk: medium

Site Specific Primary Controls:

All tools must be inspected prior to each use. Any tool that is defective or has missing parts must not be used. Every broken or defective tool must be tagged or identified as such. Operate tools according to the manufacturers' instructions.

Required Trainings:

Hand and Power Tool Safety Awareness Training

Key SOPs:

S3NA-305-PR Hand and Power Tools; refer to tool-specific S3NA-305-WI Safety Cards S3NA-205-PR, Equipment Inspections

PPE:

Safety boots; hearing protection; safety glasses

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

4. Traffic (working around moving traffic; non-roadways/highways)

Risk: medium

Site Specific Primary Controls:

Maintain a safe distance from moving vehicles/equipment, visual contact with drivers and operators. Stage activities away from vehicles and paths of travel.

Required Trainings:

Traffic Safety Awareness Training (AECOM)

PPE:

High visibility vests, traffic control and warning devices as needed.

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

5. Storing or Staging Materials and Supplies

Risk: medium

Site Specific Primary Controls:

Secure against tipping/falling. Store heavy items low, clearly identify materials. Store items out of travel paths to prevent trip creation of trip hazards.

Required Trainings:

Workplace Housekeeping Awareness Training

Key SOPs:

S3NA-307-PR Housekeeping, Worksite

PPE:

Leather work glove, safety glasses, hard hat when overhead hazards exist.

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

6. Pinch points

Risk: medium

Site Specific Primary Controls:

Take extra caution when handling tools, working with machinery, or lifting loads.

Key SOPs:

S3NA-308-PR Manual Lifting, Field;; S3NA-209-PR Project Hazard Assessment and Planning;; S3NA-307-PR Housekeeping, Worksite;; S3NA-411-PR Machine Guarding

PPE:

Work gloves

All Personal Protective Equipment shall be inspected prior to use. Any PPE or equipment not in safe working condition shall be marked and removed from service.

Client Requirements and other Controls

Client Requirements

See AppedixG of the HASP for Con Edison Health and Safety Requirements.

Approval Log

Name	Outcome/Comments	Timestamp	
Hunt,, Claire	Approved	3/8/2016	11:24:56 AM
Foster,, Celeste	Approved	3/8/2016	12:15:28 PM
US\Petros_Gregory	Approved	3/8/2016	9:15:28 PM

Sign Off Log

Name	Outcome/Comments	Timestamp

Field Team Conducting this Task

(sign here on hardcopy if names are not included in log above)

Name	Signature	Company	Date

The THA is your field visit tool:

- All crew members need to review, understand, and sign the THA prior to work commencing.
- Keep the THA in a central location on site (e.g. the truck) to review daily during your tailgate meeting and update as required.

Emergency Response Plan

Refer to On-site Emergency Response Procedures

Do you need to add additional information or file attachments to this approved JSA? Click the button below to view the Amendments page.

If you wish to use this JSA for another task, you can make a copy by clicking below. The copy will appear in the "Saved but not Submitted" library.

Attachment C

Safety Data Sheet

SPI Supplies Division
Structure Probe, Inc.
P.O. Box 656 West Chester, PA 19381-0656 USA
Phone: *1-(610)-436-5400* ***Fax:*** *1-(610)-436-5755*
E-mail:*mailto:spi3spi@2spi.com*
WWW: http://www.2spi.com/
Manufacturer's CAGE: 1P573

Material Safety Data Sheet

SPI #01200-AB and #01200A-AB Alconox® Powdered Detergent

Section 1: Identification
Date Effective..... November 14, 2005
(most recent revision)

Chemical Name/Synonyms... On Label: Alconox®

Chemical Family..... Anionic powdered detergent

Emergencies
Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...
Worldwide phone: 1-(703)-527-3887
Worldwide FAX: 1-(703)-741-6090
Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.... SPI #01200-AB and #01200A-AB
Alconox® Powdered Detergent

CAS #..... Not applicable

Chemical Formula..... Not applicable

Section 2 Composition

Component Name	CAS #	OSHA	OSHA	ACGIH	ACGIH

No hazardous ingredients in Alconox Powdered Detergent as defined by
the OSHA Standard and Hazardous Substance List 29 CFR 1910 Subpart Z.

Hazardous Material Information System USA	**Health**	**0**	**National Fire Protection Association USA**	
	Fire Hazard	**0**		
	Reactivity	**0**		
	Personal Protection			

NFPA (National Fire Protection Association) Rating (Scale 0-4):
HEALTH=0 FLAMMABILITY=0 REACTIVITY=0 OTHER=0 Not known

Section 3: Hazard Identification
Routes of entry
Inhalation? Yes
Skin? No
Ingestion? Yes

Health Hazards (Acute and chronic):
Inhalation of powder may prove locally irritating to mucous membranes. Ingestion may cause discomfort and/or diarrhea. Eye contact may prove irritating.

Carcinogenicity:
NTP? No
IARC Monographs? No
OSHA Regulated? No

Section 4: First Aid Measures
Signs and Symptoms of Exposure:
Exposure may irritate mucous membranes. May cause sneezing.

Medical conditions generally aggravated by exposure:
Not established. Unnecessary exposure to this product or any industrial chemical should be avoided. Respiratory conditions may be aggravated by powder if air borne.

Emergency and First Aid Procedures:

Eyes: Immediately flush eyes with copious amounts of water for minimum 15 minutes. Call physician.

Skin: Flush with plenty of water.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. If vomiting occurs re-administer fluids. See a physician for discomfort.

Section 5: Fire Fighting Measures
NFPA Rating: Not known

Extinguishing Media

Suitable/Not suitable:

SMALL FIRE: Use DRY chemical powder, water, foam, carbon dioxide

LARGE FIRE: Use extinguishing media suitable for the surrounding materials.

Special firefighting procedures:
Self-contained positive pressure breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.

Unusual Fire/Explosion Hazards: None

Hazardous thermal decomposition products: None known.

Protection of fire fighters: No special measures are required.

Flammable Limits:
LEL: No data
UEL: No data

Section 6: Accidental Release Measures
Personal precautions: No special precautions

Environmental Precautions and Clean Up Methods:
Material foams profusely. Recover as much as possible and flush remainder to sewer. Material is biodegradable.

Section 7: Handling and Storage
Material should be stored in a dry area to prevent caking.

Section 8: Exposure Controls and Personal Protection
Engineering controls: Normal ventilation is normally required when handling or using this product. Avoid conditions that could produce dusting.

Personal Protective Equipment

Respiratory system: Dust mask recommended but not required.

Skin and body: Laboratory coat recommended but not required.

Hands: Impervious gloves recommended

Eyes: Goggles are recommended, especially when handling solutions irrespective of what they might be.

Other: Wash hands before eating, drinking, or smoking.

Section 9: Physical and Chemical Properties
Physical State and Appearance: White powder interspersed with cream colored flakes.

Odor: None

Boiling Point: Not applicable

Melting Point: Not applicable

Density (water = 1): Not applicable

Solubility: Appreciable, to 10% at ambient conditions.

Octanol/water partition coefficient: Not available

pH: Not known

Flash Point: None

Flammability: Non-flammable

Autoignition temperature: Not applicable

Section 10: Stability and Reactivity
Chemical Stability: The product is stable

Hazardous polymerization: Will not occur

Conditions to Avoid: None

Hazardous Products of Deposition: May release CO_2 on burning.

Reactions with Air and Water:
Does not react with air, water or other common materials.

Section 11: Toxicological Information
Summary: Not considered to be toxic to humans or animals.

Skin Effects: Can be locally irritating

Eye Irritation: Can be irritating to the eyes

Inhalation: Dust can be irritating to mucous membranes

Sensitization: Not known

Chronic toxicity: There is no known effect from the chronic exposure to this product.

Section 12: Ecological Information
Exotoxicity: Not know but it is expected to be low because the material is biodegradable.

Environmental Fate: It is biodegradable.

Bioaccumulation: Not expected to occur (because the material is biodegradable).

Section 13: Disposal Considerations
This material is NOT classified as a hazardous material by RCRA. Use only licensed transporters and permitted disposal facilities and conform

to all laws.

Recycle to process, if possible.

Germany water class: VCI WGK: No products were found.

Methods of disposal; waste of residues; contaminated packaging:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Proper Shipping Name: Non-Regulated, No dangerous cargo

DOT Hazard Class: Non-Regulated, No dangerous cargo

UN/NA ID: Non-Regulated, No dangerous cargo

Packing Group: Not Applicable

Labels: Not Regulated

Marine Pollutant: No

NAER Guidebook: Not Regulated

DOT Status: Not Regulated

Land-Road/Railway:

ADR/RID Class: No dangerous cargo

Sea:

IMDG Class: No dangerous cargo

Air:

IATA-DGR Class: No dangerous cargo

Section 15: Regulatory Information
TSCA: All components of this product are listed on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification Rule, they will be listed below.

TSCA 12(b) Component Listed under TSCA Section

SARA Title 3: Section 313 Information/Emissions Reporting (**40 CFR 372**):

Component Reporting Threshold

SARA-Section 311/312:

No components present in this product are subject to the reporting requirements of this statute.

CERCLA Hazardous Substances and their Reportable Quantities:

Component Reportable Quantity

EU Regulations: Risk Phrases: This product is not classified according to the EU regulations.

Safety Phrases: Not applicable

Contains: Not applicable

California Prop. 65:
Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

None found

Section 16: Other Information
Disclaimer of Liability:
Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not

provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

GASCO

MATERIAL SAFETY DATA SHEET - CALIBRATION CHECK GAS

PRODUCT NAME: ISOBUTYLENE (1 PPM – 0.9%) IN AIR

INGESTION EFFECTS:
Ingestion unlikely. Gas at room temperature.

INHALATION EFFECTS:
Due to the small size of this cylinder, no unusual health effects from over-exposure are anticipated under normal routine use.

NFPA HAZARD CODES		HMIS HAZARD CODES		RATING SYSTEM
Health:	1	Health:	1	0= No Hazard
Flammability:	0	Flammability:	0	1= Slight Hazard
Reactivity:	0	Reactivity:	0	2= Moderate Hazard
				3= Serious Hazard
				4= Severe Hazard

4. FIRST AID MEASURES

EYES:
N/A

SKIN:
N/A

INGESTION:
Not required

INHALATION:
PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASED OF OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED THE SELF-CONTAINED BREATHING APPARATUS. Victims should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. If breathing has stopped administer artificial resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

These containers hold gas under pressure, with no liquid phase. If involved in a major fire, they should be sprayed with water to avoid pressure increases, otherwise pressures will rise and ultimately they may distort or burst to release the contents. The gases will not add significantly to the fire, but containers or fragments may be projected considerable distances - thereby hampering fire fighting efforts.

6. ACCIDENTAL RELEASE MEASURES

In terms of weight, these containers hold very little contents, such that any accidental release by puncturing etc. will be of no practical concern.

7. HANDLING AND STORAGE

Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Use only in well-ventilated areas. Do not heat cylinder by any means to increase rate of product from the cylinder. Do not allow the temperature where cylinders are stored to exceed 130°F (54°C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use adequate ventilation for extended use of gas.

GASCO

MATERIAL SAFETY DATA SHEET - CALIBRATION CHECK GAS

PRODUCT NAME: ISOBUTYLENE (1 PPM – 0.9%) IN AIR

INGESTION EFFECTS:
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Flammability:	0	Flammability:	0	1= Slight Hazard
Reactivity:	0	Reactivity:	0	2= Moderate Hazard
				3= Serious Hazard
				4= Severe Hazard

4. FIRST AID MEASURES

EYES:
N/A

SKIN:
N/A

INGESTION:
Not required

INHALATION:
PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASED OF OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED THE SELF-CONTAINED BREATHING APPARATUS. Victims should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. If breathing has stopped administer artificial resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use adequate ventilation for extended use of gas.

Mobil® The energy to make a difference™

159004-01 LOW SULFUR #1 DIESEL
MATERIAL SAFETY DATA BULLETIN

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LOW SULFUR #1 DIESEL
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037
24 - Hour Emergency (call collect): 609-737-4411
Product and SDS Information: 800-662-4525 856-224-4644
CHEMTREC: 800-424-9300 202-483-7616

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: HYDROCARBONS AND ADDITIVES
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

Substance Name	Wt%
DIESEL FUEL (68334-30-5)	100

See Section 15 for European Label Information.
See Section 8 for exposure limits (if applicable).

---

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.
EFFECTS OF OVEREXPOSURE: Respiratory irritation, dizziness, nausea, loss of consciousness. Prolonged, repeated skin contact may result in skin irritation or more serious skin disorders. Low viscosity material-if swallowed may enter the lungs and cause lung damage. Note: This product contains polycyclic aromatic hydrocarbons, some of which have been reported to cause skin cancer in humans under conditions of poor personal hygiene, prolonged repeated contact, and exposure to sunlight. Toxic

effects are unlikely to occur if good personal hygiene is
practiced.
EMERGENCY RESPONSE DATA: Clear (May Be Dyed) Liquid. Material is
combustible. DOT ERG No. : 128

---

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call
a physician.
SKIN CONTACT: Remove contaminated clothing. Dry wipe exposed skin and
cleanse yourself with waterless hand cleaner and follow by
washing thoroughly with soap and water. For those providing
assistance, avoid further contact to yourself or others. Wear
impervious gloves. Launder contaminated clothing separately
before reuse. Discard contaminated articles that cannot be
laundered.
INHALATION: Remove from further exposure. If respiratory irritation,
dizziness, nausea, or unconsciousness occurs, seek immediate
medical assistance. If breathing has stopped, assist ventilation
with bag-valve-mask device or use mouth-to-mouth resuscitation.
INGESTION: Seek immediate medical attention. Do not induce vomiting.
NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause
chemical pneumonitis. Treat appropriately.

---

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire exposed
containers cool. If a leak or spill has not ignited, use water
spray to disperse the vapors and to protect personnel attempting
to stop leak. Water spray may be used to flush spills away from
exposures. Prevent runoff from fire control or dilution from
entering streams, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire
fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Material is combustible. Flash
Point C(F): > 52(125) (ASTM D-93). Flammable limits - LEL:
0.6%, UEL: 7.0%.
NFPA HAZARD ID: Health: 1, Flammability: 2, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

---

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.
PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.
ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.
PERSONAL PRECAUTIONS: See Section 8

---

7. HANDLING AND STORAGE

HANDLING: Harmful in contact with or if absorbed through the skin. Avoid inhalation of vapors or mists. PORTABLE CONTAINERS approved for storing fuel must be placed on the ground and the nozzle must stay in contact with the container when filling to prevent build up and discharge of static electricity.
STORAGE: Store in a cool area. A flammable atmosphere can be produced in storage tank headspaces even when stored at a temperature below the flashpoint. Monitor and maintain headspace gas concentrations below flammable limits. Ensure that there are no ignition sources in the area immediately surrounding filling and venting operations. Avoid sparking conditions. Ground and bond all transfer equipment. Store in a cool area.

---

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use in well ventilated area. Ventilation desirable and equipment should be explosion proof.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: If splash with liquid is possible, chemical type goggles should be worn.
SKIN PROTECTION: Impervious gloves must be worn. If contact is likely oil impervious clothing must be worn.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.
APPEARANCE: Liquid
COLOR: Clear (May Be Dyed)
ODOR: Hydrocarbon
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): > 149(300)
MELTING POINT C(F): NA
FLASH POINT C(F): > 52(125) (ASTM D-93)
FLAMMABILITY: NE
AUTO FLAMMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: 0.5
VAPOR DENSITY: > 2.0
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.82-0.87
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: NE
VISCOSITY AT 40 C, cSt: > 1.0
VISCOSITY AT 100 C, cSt: NE
POUR POINT C(F): < -7(20)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

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10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Heat, sparks, flame and build up of static electricity.
INCOMPATIBILITY (MATERIALS TO AVOID): Halogens, strong acids, alkalies, and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.
HAZARDOUS POLYMERIZATION: Will not occur.

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11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Repeated dermal application to rats for 13 weeks was carried out with aromatic oils similar to some of the components of this product. Resulting effects included increased mortality and decreased body and thymus weights. Severe skin irritation was also observed at the site of application.

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

Repeated dermal application to pregnant rats was carried out using aromatic oils similar to some of the components used in this product. Results included maternal toxicity, decreased fetal body weights and decreased fetal survival in some cases. No fetal malformations were observed.

---CHRONIC TOXICOLOGY (SUMMARY)---

Expected to be carcinogenic in lifetime mouse skin painting bioassays.

---OTHER TOXICOLOGY DATA---

Skin cleansing studies with aromatic oils show that toxic effects are not likely to occur in humans if good personal hygiene practices are used. Overexposure to diesel exhaust fumes may result in eye irritation, headaches, nausea, and respiratory irritation.

Animal studies invoCon Edisonng lifetime exposure to high levels of diesel exhaust have produced variable results, with some studies indicating a potential for lung cancer. Limited evidence from epidemiological studies suggest an association between long-term occupational exposure to diesel engine emissions and lung cancer. Diesel engine exhaust typically consists of gases and particulates, including carbon dioxide, carbon monoxide, nitrogen compounds, oxides of sulfur, and hydrocarbons. Diesel exhaust

composition will vary with fuel, engine type, load cycle, engine maintenance, tuning and exhaust gas treatment. Use of adequate ventilation and/or respiratory protection in the presence of diesel exhaust is recommended to minimize exposures.

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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning for fuel value in compliance with applicable laws and regulations.
RCRA INFORMATION: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP).
FLASH: > 52(125) C(F)

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14. TRANSPORT INFORMATION

NOTE: The flash point of this material is > 125F. Regulatory classifications vary as follows:
DOT: Flammable Liquid OR Combustible Liquid - (49CFR 173.120(b)(2))
OSHA: Combustible Liquid
IATA/IMO: Flammable Liquid
USA DOT:
SHIPPING NAME: Diesel Fuel
HAZARD CLASS & DIV: COMBUSTIBLE LIQUID
ID NUMBER: NA1993
ERG NUMBER: 128
PACKING GROUP: PG III
STCC: NE
DANGEROUS WHEN WET: No
POISON: No
LABEL(s): NA
PLACARD(s): Combustible
PRODUCT RQ: NA
MARPOL III STATUS: NA

In accordance with 49 CFR 173.150(f)(2), non-bulk quantities of this material (<119 gallons per container) may be shipped as non regulated for USA domestic shipments.
RID/ADR:
HAZARD CLASS: 3
HAZARD SUB-CLASS: 31(c)
LABEL: 3
DANGER NUMBER: 30
UN NUMBER: 1202
SHIPPING NAME: Gas Oil
REMARKS: NA
IMO:
HAZARD CLASS & DIV: 3.3
UN NUMBER: 1202
PACKING GROUP: PG III
SHIPPING NAME: Gas Oil
LABEL(s): Flammable Liquid
MARPOL III STATUS: NA
ICAO/IATA:
HAZARD CLASS & DIV: 3
ID/UN Number: 1202
PACKING GROUP: PG III
SHIPPING NAME: Gas Oil
SUBSIDIARY RISK: NA
LABEL(s): Flammable Liquid

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15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, and EINECS/ELINCS.
EU Labeling:
Symbol: Xn Harmful.
Risk Phrase(s): R10-40-65.
Flammable. Possible risks of irreversible effects. Harmful: may cause lung damage if swallowed.
Safety Phrase(s): S24-2-36/37-61-62.
Avoid contact with skin. Keep out of the reach of children. Wear suitable protective clothing and gloves. Avoid release to the environment. Refer to special instructions/Safety data sheets. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Contains: Gas oil - unspecified.
U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".
SARA (311/312) REPORTABLE HAZARD CATEGORIES:
FIRE CHRONIC ACUTE

This product contains the following SARA (313) Toxic Release Chemicals:

CHEMICAL NAME	CAS NUMBER	CONC.
POLYNUCLEAR AROMATIC HYDROCARBONS(COMPONENT ANALYSIS)		0.1%

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
DIESEL OIL..C9-20	68334-30-5	21, 26

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL 6=IARC 1 11=TSCA 4 16=CA P65 CARC 21=LA RTK
2=ACGIH A1 7=IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=MI 293
3=ACGIH A2 8=IARC 2B 13=TSCA 5e 18=CA RTK 23=MN RTK
4=NTP CARC 9=OSHA CARC 14=TSCA 6 19=FL RTK 24=NJ RTK
5=NTP SUS 10=OSHA Z 15=TSCA 12b 20=IL RTK 25=PA RTK
26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

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16. OTHER INFORMATION

Precautionary Label Text:
CONTAINS DIESEL OIL.. C9-20
WARNING!
COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE NOSE, THROAT AND LUNG IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL
LUNG DAMAGE.
MAY CAUSE SKIN CANCER ON PROLONGED, REPEATED SKIN CONTACT. ANIMAL SKIN
ABSORPTION STUDIES RESULTED IN INCREASED MORTALITY, EFFECTS ON BODY WEIGHT, THE IMMUNE SYSTEM AND THE UNBORN CHILD. PROLONGED, REPEATED SKIN
CONTACT MAY CAUSE IRRITATION. DIESEL EXHAUST IS SUSPECT OF CAUSING LUNG
CANCER.
Keep away from heat and flame. Avoid prolonged or repeated overexposure by skin contact or inhalation. Use with adequate ventilation. Keep container closed. Keep out of reach of children. Approved portable containers must be properly grounded when transferring fuel.
FIRST AID: If inhaled, remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a bag-valve-mask device or use mouth-to-mouth resuscitation. In case of contact, remove contaminated clothing. Dry wipe the exposed skin and

cleanse with waterless hand cleaner and follow by washing thoroughly with soap and water. For those providing assistance, avoid further skin contact to yourself and others. Wear impervious gloves. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.
Empty container may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container. All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.
Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm are created by the combustion of this product. Refer to product Material Safety Data Bulletin for further safety and health information.

USE: DIESEL FUEL
NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES
ARE NOT FORMULATED TO CONTAIN PCBS.

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
DIESEL OIL..C9-20	100	68334-30-5

****
For Internal Use Only: MHC: 1* 1* 1* 1* 1*, MPPEC: C, TRN: 159004-01, CMCS97: 979485, REQ: US - MARKETING, SAFE USE: C
EHS Approval Date: 12MAY1999
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Legally required information is given in accordance with applicable Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending any license under valid patents. Appropiate warnings and safe handling procedures should be provided to handlers and users. Use or re-transmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.
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Mobil® The energy to make a difference™

33126-00 MOBIL REGULAR UNLEADED GASOLINE
MATERIAL SAFETY DATA BULLETIN

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL REGULAR UNLEADED GASOLINE
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037
24 - Hour Emergency (call collect): 609-737-4411
Product and SDS Information: 800-662-4525 856-224-4644
CHEMTREC: 800-424-9300 202-483-7616

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: HYDROCARBONS AND ADDITIVES
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

Substance Name	Wt%
GASOLINE (8006-61-9)	100

COMPONENT(S) OF PRODUCT INGREDIENTS INCLUDE:

METHYL T-BUTYL ETHER (1634-04-4)	15
ETHANOL (64-17-5)	11
XYLENE (1330-20-7)	10
ISOPENTANE (78-78-4)	9
TRIMETHYL BENZENE (25551-13-7)	8
TOLUENE (108-88-3)	5
BUTANE (106-97-8)	4
2-METHYLPENTANE (107-83-5)	4
PENTANE (109-66-0)	4
3-METHYLPENTANE (96-14-0)	2
BENZENE (71-43-2)	2
2,3-DIMETHYLBUTANE (79-29-8)	2
N-HEXANE (110-54-3)	2
ETHYL BENZENE (100-41-4)	2
3- METHYLHEXANE (589-34-4)	2
2- METHYLHEXANE (591-76-4)	1

METHYLCYCLOHEXANE (108-87-2) 1
NOTE: THIS MSDB ALSO COVERS REFORMULATED AND CARB PHASE 2 GASOLINE. The
concentration of the components shown above may vary substantially. Because of volatility considerations, gasoline vapor may have concentrations of components very different from those of liquid gasoline. The major components of gasoline vapor are: butane, isobutane, pentane and isopentane. Federal RFG (reformulated) and Carb Phase 2 gasoline will contain oxygenates such as MTBE or ethanol at a concentration to provide a minimum oxygen content of 1.5 Wt%. The reportable component percentages, shown in the Regulatory Information section, are based on API's evaluation of a typical gasoline mixture.
See Section 15 for European Label Information.
See Section 8 for exposure limits (if applicable).

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3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.
EFFECTS OF OVEREXPOSURE: Eye irritation, respiratory irritation, dizziness, nausea, loss of consciousness. Skin irritation.
Studies (sponsored by API) conducted in the U.S. examining the mortality experience (causes of death) of distribution workers with long-term exposure to gasoline have not found any gasoline-related health effects. Case reports of chronic gasoline abuse (such as gasoline sniffing) and chronic misuse of gasoline as a solvent or as a cleaning agent have reported a range of neurological effects (nervous system effects), sudden deaths from cardiac arrest (heart attacks), hematologic changes (blood effects) and leukemia. These effects are not expected to occur at exposure levels encountered in the distribution and use of gasoline as a motor fuel. Low viscosity material-if swallowed may enter the lungs and cause lung damage.
EMERGENCY RESPONSE DATA: Clear (May Be Dyed) Liquid. Extremely flammable. Vapor accumulation could flash and/or explode if in contact with open flame. DOT ERG No. : 128

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4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
SKIN CONTACT: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before

reuse.
INHALATION: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with bag-valve-mask device or use mouth-to-mouth resuscitation.
INGESTION: Seek immediate medical attention. Do not induce vomiting.
NOTE TO PHYSICIANS: Material if ingested may be aspirated into the lungs and can cause chemical pneumonitis. Treat appropriately.

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5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon Dioxide, Foam, Dry Chemical, Water Fog.
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area. For large spills, fire fighting foam is the preferred agent and should be applied in sufficient quantities to blanket the gasoline surface. Water spray may be used to flush spill away from exposures, but good judgment should be practiced to prevent spreading of the gasoline into sewers, streams or drinking water supplies. If a leak or spill has not ignited, apply a foam blanket to suppress the release of vapors. If foam is not available, a water spray curtain can be used to disperse vapors and to protect personnel attempting to stop the leak.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable. Vapor accumulation could flash and/or explode if in contact with open flame. Flash Point C(F): < -40(-40) (ASTM D-56). Flammable limits - LEL: 1.4%, UEL: 7.6%.
NFPA HAZARD ID: Health: 1, Flammability: 3, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

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6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.
PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Runoff may create fire or explosion hazard in sewer system. Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste

disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.
ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.
PERSONAL PRECAUTIONS: See Section 8

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7. HANDLING AND STORAGE

HANDLING: NEVER SIPHON GASOLINE BY MOUTH. GASOLINE SHOULD NOT BE USED
AS A SOLVENT OR AS A CLEANING AGENT. Use non-sparking tools and explosion-proof equipment. Avoid contact with skin. Avoid inhalation of vapors or mists. Use in well ventilated area away from all ignition sources. PORTABLE CONTAINERS approved for storing fuel must be placed on the ground and the nozzle must stay in contact with the container when filling to prevent build up and discharge of static electricity.
STORAGE: Drums must be grounded and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters. Store away from all ignition sources in a cool area equipped with an automatic sprinkling system. Outside or detached storage preferred. Storage containers should be grounded and bonded.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use in well ventilated area with local exhaust ventilation. Ventilation required and equipment must be explosion proof. Use away from all ignition sources.
RESPIRATORY PROTECTION: Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the TLV.
EYE PROTECTION: If splash with liquid is possible, safety glasses with side shields or chemical goggles should be worn.
SKIN PROTECTION: Impervious gloves should be worn. Good personal hygiene practices should always be followed.

Substance Name (CAS-No.)	Source	---TWA--- ppm	---TWA--- mg/m3	----STEL--- ppm	----STEL--- mg/m3	NOTE
GASOLINE (8006-61-9)	OSHA	300	900	500	1500	
	ACGIH	300	890	500	1480	
METHYL T-BUTYL ETHER (1634-04-4)	ACGIH	40	144			

ETHANOL (64-17-5)
OSHA 1000 1900
ACGIH 1000 1880
XYLENE (1330-20-7)
O, M, P, -Isomers OSHA 100 435 150 655
O, M, P, -Isomers ACGIH 100 434 150 651
ISOPENTANE (78-78-4)
All Isomers ACGIH 600 1770
TRIMETHYL BENZENE
(25551-13-7)
OSHA 25 125
ACGIH 25 123
TOLUENE (108-88-3)
OSHA 100 375 150 560
Skin ACGIH 50 188
BUTANE (106-97-8)
OSHA 800 1900
ACGIH 800 1900
2-METHYLPENTANE (107-83-5)
Isomer of N-Hexane ACGIH 500 1760 1000 3500
PENTANE (109-66-0)
OSHA 600 1800 750 2250
All Isomers ACGIH 600 1770
3-METHYLPENTANE (96-14-0)
Isomer of N-Hexane ACGIH 500 1760 1000 3500
BENZENE (71-43-2)
OSHA 1 5
Skin ACGIH 0.5 1.6 2.5 8
2,3-DIMETHYLBUTANE
(79-29-8)
Isomer of N-Hexane ACGIH 500 1760 1000 3500
N-HEXANE (110-54-3)
OSHA 50 180
N-Hexane Skin ACGIH 50 176
Other Isomers ACGIH 500 1760 1000 3500
ETHYL BENZENE (100-41-4)
OSHA 100 435 125 545
ACGIH 100 434 125 543
3- METHYLHEXANE (589-34-4)
MOBIL 400 1640
2- METHYLHEXANE (591-76-4)
MOBIL 400 1640
METHYLCYCLOHEXANE
(108-87-2)
OSHA 400 1600
ACGIH 400 1610
NOTE: Limits shown for guidance only. Follow applicable regulations.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.
APPEARANCE: Liquid
COLOR: Clear (May Be Dyed)
ODOR: Gasoline
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): > 35(95)
MELTING POINT C(F): NA
FLASH POINT C(F): < -40(-40) (ASTM D-56)
FLAMMABILITY: NE
AUTO FLAMMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: > 400.0
VAPOR DENSITY: 3.0
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.79
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: NE
VISCOSITY AT 40 C, cSt: < 1.0
VISCOSITY AT 100 C, cSt: NA
POUR POINT C(F): NA
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

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10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Heat, sparks, flame and build up of static electricity.
INCOMPATIBILITY (MATERIALS TO AVOID): Halogens, strong acids, alkalies, and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.
HAZARDOUS POLYMERIZATION: Will not occur.

---

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---
ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
SKIN IRRITATION (RABBITS): Irritant. (Primary Irritation Index: 3 or greater but less than 5). ---Based on testing of similar products and/or the components.
OTHER ACUTE TOXICITY DATA: Inhalation of vapors/mists may cause respiratory system irritation. HAZARDS OF COMBUSTION PRODUCTS: Exposure to high concentrations of carbon monoxide can cause loss of consciousness, heart damage, brain damage and death. Exposure to high concentrations of carbon dioxide can cause simple asphyxiation by displacing oxygen. May be harmful or fatal if swallowed due to aspiration pneumonitis.
---OTHER TOXICOLOGY DATA---
Gasoline and Refinery Streams: Studies conducted by the American Petroleum Institute examined a reference unleaded gasoline for mutagenic, teratogenic and sensitization potential; no evidence of these hazards was found. However, isolated constituents of gasoline may display these or other potential hazards in laboratory tests. There were no significant adverse effects in three-month subchronic inhalation studies in rats or monkeys, or in a two-year skin cancer study in mice. Studies with laboratory animals have shown that gasoline vapors administered at high concentrations over a prolonged period of time caused kidney damage and kidney cancer in male rats and liver cancer in female mice. The kidney tumors resulted from formation of a compound unique to male rats and is not considered relevant to humans. The relationship of liver cancer in mice to humans is not known. Studies carried out by Mobil's Environmental and Health Sciences Laboratory on some of the major refinery streams from which gasoline is formulated support the results of the API studies. There was no evidence of significant adverse systemic or reproductive effects for light catalytic cracked naphthas and reformed naphthas. Components: Gasoline consists of a complex blend of petroleum/processing derived paraffinic, olefinic, naphthenic and aromatic hydrocarbons which include up to 5% benzene (with 1-2% typical in the U.S.), n-hexane, mixed xylenes,

toluene, ethylbenzene and trimethyl benzene. Repeated exposures to low levels of benzene have been reported to result in blood abnormalities including anemia and, in rare cases, leukemia in both animals and humans. Prolonged exposure to n-hexane may result in nervous system damage, including numbness of the extremities and, in extreme cases, paralysis. The adverse effects associated with these components have not been observed in studies with gasoline or the refinery streams from which it is formulated. Generally, human exposures to gasoline vapors are considerably less than those used in the animal toxicity studies. As far as scientists know, low level or infrequent exposures to gasoline vapor are unlikely to be associated with cancer or other serious diseases in humans. Methyl Tertiary Butyl Ether (MTBE) was tested for carcinogenicity, neurotoxicity, chronic, reproductive, and developmental toxicity. The NOAEL for all end points evaluated in three animal species was 400 ppm or greater. An increase in kidney tumors/damage and liver tumors was observed in animals exposed to high concentrations of MTBE. Some embryo/fetal toxicity and birth defects were observed in the offspring of pregnant mice exposed to maternally toxic doses of MTBE, however the offspring of exposed pregnant rabbits were unaffected. The significance of the animal findings at high exposures are not believed to be directly related to potential human health hazards in the workplace.

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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning for fuel value in compliance with applicable laws and regulations.
RCRA INFORMATION: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP).

BENZENE: 2.3200 PCT (TCLP)
FLASH: < -40(-40) C(F)

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14. TRANSPORT INFORMATION

USA DOT:
SHIPPING NAME: Gasoline
HAZARD CLASS & DIV: 3
ID NUMBER: UN1203
ERG NUMBER: 128
PACKING GROUP: PG II
STCC: NE
DANGEROUS WHEN WET: No
POISON: No
LABEL(s): Flammable Liquid
PLACARD(s): Flammable
PRODUCT RQ: NA
MARPOL III STATUS: NA
RID/ADR:
HAZARD CLASS: 3
HAZARD SUB-CLASS: 3(b)
LABEL: 3
DANGER NUMBER: 33
UN NUMBER: 1203
SHIPPING NAME: Hydrocarbons, liquid having a flash point below 21deg C
REMARKS: NA
IMO:
HAZARD CLASS & DIV: 3.1
UN NUMBER: 1203
PACKING GROUP: PG II
SHIPPING NAME: Gasoline
LABEL(s): Flammable Liquid
MARPOL III STATUS: NA
ICAO/IATA:
HAZARD CLASS & DIV: 3
ID/UN Number: 1203
PACKING GROUP: PG II
SHIPPING NAME: Gasoline
SUBSIDIARY RISK: NA
LABEL(s): Flammable Liquid

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15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, and EINECS/ELINCS.
EU Labeling:
Symbol: F+ T Extremely flammable, Toxic.

Risk Phrase(s): R12-45-38-65.
Extremely flammable. May cause cancer. Irritating to skin.
Harmful: may cause lung damage if swallowed.
Safety Phrase(s): S53-45-2-23-24-29-43-62.
Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Keep out of the reach of children. Do not breathe vapor. Avoid contact with skin. Do not empty into drains. In case of fire use carbon dioxide, foam, dry chemical or water fog. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Contains: Low Boiling Point Naphtha.
U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".
SARA (311/312) REPORTABLE HAZARD CATEGORIES:
FIRE CHRONIC ACUTE

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16. OTHER INFORMATION

Precautionary Label Text:
CONTAINS GASOLINE
DANGER!
EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY
CAUSE SKIN, NOSE, THROAT, AND LUNG IRRITATION, DIZZINESS, NAUSEA, AND LOSS OF CONSCIOUSNESS. LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL LUNG DAMAGE.
LONG-TERM EXPOSURE TO GASOLINE VAPOR HAS CAUSED KIDNEY AND LIVER CANCER
IN LABORATORY ANIMIALS.
Keep away from heat, sparks, and flame. Avoid all personal contact.
Avoid prolonged breathing of vapor. Use with adequate ventilation. Keep container closed. Approved portable containers must be properly grounded when transferring fuel. For use as a motor fuel only. Misuse of gasoline may cause serious injury or illness. Never siphon by mouth.
Not to be used as a solvent or skin cleaning agent.
FIRST AID: In case of contact, wash skin with soap and water. Remove contaminated clothing. Destroy or wash clothing before reuse. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.
Empty container may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container.
All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.
This warning is given to comply with California Health and Safety Code 25249.6 and does not constitute an admission or a waiver of rights. This

product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm are created by the combustion of this product. Refer to product Material Safety Data Bulletin for further safety and health information.

USE: UNLEADED MOTOR FUEL
NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES
ARE NOT FORMULATED TO CONTAIN PCBS.

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
GASOLINE	100	8006-61-9

****

For Internal Use Only: MHC: 1* 1* 1* 1* 2*, MPPEC: CF, TRN: 33126-00, CMCS97: 97C112, REQ: US - MARKETING, SAFE USE: S
EHS Approval Date: 17MAY2000

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Material Safety Data Sheet

Bentonite SDS

Section 1: Chemical Product and Company Identification

Product Name: Bentonite

Catalog Codes: SLB1441, SLB2935, SLB4435

CAS#: 1302-78-9
RTECS: CT9450000
TSCA: TSCA 8(b) inventory: Bentonite
CI#: Not applicable.
Synonym: Montmorillonite;
Chemical Name: Not available.
Chemical Formula:
(Al,Fe1.67Mg.33)Si10(OH)2Na(+)Ca(++)/2.33
Contact Information:
Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396
US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**
Order Online: ScienceLab.com
CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 1-281-441-4400
Section 2: Composition and Information on Ingredients
Composition:
Name
CAS #
% by Weight
Bentonite
1302-78-9
100
Toxicological Data on Ingredients: Bentonite LD50: Not available. LC50: Not available.
Section 3: Hazards Identification
Potential Acute Health Effects:
Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant), of
ingestion.
Potential Chronic Health Effects:
Hazardous in case of inhalation.
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
The substance is toxic to lungs.
Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures
Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.
Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious Skin Contact: Not available.
Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get
medical attention.
Serious Inhalation: Not available.
Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an
unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight
clothing such as a collar, tie, belt or waistband.
Serious Ingestion: Not available.
Section 5: Fire and Explosion Data
Flammability of the Product: Non-flammable.
Auto-Ignition Temperature: Not applicable.
Flash Points: Not applicable.
Flammable Limits: Not applicable.
Products of Combustion: Not available.
Fire Hazards in Presence of Various Substances: Not applicable.
Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions: Not applicable.
Special Remarks on Fire Hazards: Not available.
Special Remarks on Explosion Hazards: Not available.
Section 6: Accidental Release Measures
Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by
spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water
on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not
present at a concentration level above TLV. Check TLV on the SDS and with local authorities.
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Section 7: Handling and Storage
Precautions:
Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient

ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label
when possible.
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.
Section 8: Exposure Controls/Personal Protection
Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below
recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to
airborne contaminants below the exposure limit.
Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.
Gloves.
Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used
to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist
BEFORE handling this product.
Exposure Limits:
TWA: 10 from ACGIH (TLV) [United States]
Consult local authorities for acceptable exposure limits.
Section 9: Physical and Chemical Properties
Physical state and appearance: Solid.
Odor: Odorless.
Taste: Not available.
Molecular Weight: Not available.
Color: Beige. (Light.)
pH (1% soln/water): Not available.
Boiling Point: Not available.
Melting Point: Decomposes.
Critical Temperature: Not available.
Specific Gravity: 2.5 (Water = 1)
Vapor Pressure: Not applicable.
Vapor Density: Not available.
Volatility: Not available.
Odor Threshold: Not available.
Water/Oil Dist. Coeff.: Not available.
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Ionicity (in Water): Not available.
Dispersion Properties: Not available.
Solubility:
Very slightly soluble in cold water, hot water.
Insoluble in methanol, diethyl ether, n-octanol, acetone.

Section 10: Stability and Reactivity Data
Stability: The product is stable.
Instability Temperature: Not available.
Conditions of Instability: Not available.
Incompatibility with various substances: Not available.
Corrosivity: Not available.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur.
Section 11: Toxicological Information
Routes of Entry: Eye contact. Inhalation.
Toxicity to Animals:
LD50: Not available.
LC50: Not available.
Chronic Effects on Humans: Causes damage to the following organs: lungs.
Other Toxic Effects on Humans:
Hazardous in case of inhalation.
Slightly hazardous in case of skin contact (irritant), of ingestion.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.
Section 12: Ecological Information
Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may
arise.
Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.

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Special Remarks on the Products of Biodegradation: Not available.
Section 13: Disposal Considerations
Waste Disposal:
Section 14: Transport Information
DOT Classification: Not a DOT controlled material (United States).
Identification: Not applicable.
Special Provisions for Transport: Not applicable.
Section 15: Other Regulatory Information
Federal and State Regulations: TSCA 8(b) inventory: Bentonite
Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
Other Classifications:
WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
DSCL (EEC): R36- Irritating to eyes.
HMIS (U.S.A.):

Health Hazard: 2
Fire Hazard: 0
Reactivity: 0
Personal Protection: E
National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 0
Reactivity: 0
Specific hazard:
Protective Equipment:
Gloves.
Lab coat.
Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Splash goggles.
Section 16: Other Information
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References: Not available.
Other Special Considerations: Not available.
Created: 10/10/2005 08:14 PM
Last Updated: 11/06/2008 12:00 PM
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MATERIAL SAFETY DATA SHEET

2710 Wycliff Road
Effective Date: 1-04
Raleigh, North Carolina 27607
Replaces: 12-1-97
919-781-4550

I – PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME
CHEMICAL FORMULA
MOLECULAR WEIGHT
Natural Sand/Gravel
Mixture
Not Applicable

TRADE NAME
Gravel Sand or Gravel

SYNONYMS
DOT IDENTIFICATION NO.
Construction Aggregate
None

II – COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT(S)
CHEMICAL NAME
Silicon Dioxide
*
, SiO_2
Aluminum Oxide, Al_2O_3
Ferric Oxide, Fe_2O_3
Ferrous Oxide, FeO
Magnesium Oxide, MgO
Calcium Oxide, CaO
Sodium Oxide, Na_2O
Potassium Oxide, K_2O
Calcium Carbonate, $CaCO_3$
CAS REGISTRY NO
14808-60-7
1344-28-1
1309-37-1
1345-25-1
1309-48-4
1305-78-8
1313-59-3

12136-45-7
471-34-1
% by weight
(approx)
0-79
0-16
0-5
0-3
1-22
3-43
0-2
0-4
0-48
MSHA/OSHA PEL
(R) 10 mg/m^3/(% SiO_2+2)[§]
(T) 15 mg/m^3, (R) 5 mg/m^3
10 mg/m^3
-
15 mg/m^3
5 mg/m^3
-
-
(T) 15 mg/m^3, (R) 5 mg/m^3
ACGIH TLV-TWA
0.05 mg/m^3[#]
10 mg/m^3
5 mg/m^3
5 mg/m^3
10 mg/m^3
2mg/m^3
2mg/m^3
as NaOH
-
10 mg/m^3[#]
*: The composition of SiO_2

may be up to 100% crystalline silica. (R): Respirable (T): Total §: Crystalline silica is normally measured as respirable dust. The OSHA standard also presents a formula for calculation of the PEL based on total dust: 30 mg/m^3 / (% SiO$_2$ +2). #: Particulate matter containing no asbestos and <1% crystalline silica.

III – HAZARDS IDENTIFICATION

Natural Sand/Gravel is a mixture of angular or round multicolored particles. It is odorless and not flammable. Respirable dust particles containing silicon dioxide may be generated by handling natural sand/gravel. Inhalation of excessive particulate matter may cause respiratory problems. Crystalline silica, a component of this product, has been designated as a Group I carcinogen by IARC.

Health Effects: The information below represents an overview of health effects caused by overexposure to one or more components in natural sand/gravel. The individual effects are described in Section XI.

Primary routes(s) of exposure:

■ Inhalation

Skin

Ingestion

EYE CONTACT:

Direct contact with dust may cause irritation by mechanical abrasion. Conjunctivitis may occur.

SKIN CONTACT:

Direct contact may cause irritation by mechanical abrasion. Some components of material are also known to cause mild corrosive effects to skin and mucous membranes.

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SKIN ABSORPTION:

Not expected to be a significant route of exposure.

INGESTION:

Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury. Ingestion of large amounts may cause gastrointestinal irritation and blockage.

INHALATION:

Dust may irritate nose, throat, mucous membranes, and respiratory tract by mechanical abrasion. Coughing, sneezing, chest pain, shortness of breath, inflammation of mucous membrane, and flu-like fever may occur following exposures in excess of appropriate exposure limits. Repeated excessive exposure may cause pneumoconiosis, such as silicosis and other respiratory effects.

Notes on Silicosis:

Use of natural sand and gravel for construction purposes is not believed to cause acute toxic effects. Repeated overexposures to respirable crystalline silica (quartz, cristobalite, tridymite) for periods as short as 6 months has caused acute silicosis.

Symptoms of acute silicosis include (but are not limited to): shortness of breath, cough, fever, weight loss, and chest pain. Acute silicosis is a rapidly progressive, incurable lung disease and is typically fatal.

Chronic exposure to respirable quartz-containing dust in excess of appropriate exposure limits has caused silicosis, a progressive
pneumoconiosis (lung disease). Restrictive and/or obstructive lung function changes may result from chronic exposure. Chronic
tobacco smoking may further increase the risk of developing chronic lung problems.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Inhaling respirable dust and/or crystalline silica may aggravate existing respiratory system disease(s) and/or dysfunctions.
Exposure to dust may aggravate existing skin and/or eye conditions. Smoking and obstructive / restrictive lung diseases may also
exacerbate the effects of excessive exposure to this product.
IV – FIRST AID MEASURES
EYES:
Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open.
Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material
from the eye(s). Contact a physician if irritation persists or develops later.
SKIN:
Wash with soap and water. Contact a physician if irritation persists or develops later.
INGESTION:
If person is conscious, give a large quantity of water to induce vomiting; however, never attempt to make an
unconscious person drink or vomit. Get medical attention.
INHALATION: Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if
irritation persists or develops later.
V – FIRE FIGHTING MEASURES
FLASHPOINT
Not Flammable
FLAMMABLE LIMITS IN AIR
Not Flammable
EXTINGUISHING AGENT
None required
UNUSUAL FIRE AND EXPLOSION HAZARD
Contact with powerful oxidizing agents may cause fire and/or explosions (see Section X of this SDS).
VI – ACCIDENTAL RELEASE MEASURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Persons involved in cleaning should first follow the precautions defined in Section VII of the SDS. Spilled materials, where
dust can be generated, may overexpose cleanup personnel to respirable quartz-containing dust. Wetting of spilled material and/or
use of respiratory protective equipment may be necessary. Do not dry sweep spilled material.
This product is not subject to the reporting requirements of Title III of SARA, 1986, and 40 CFR 372.

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VII – HANDLING AND STORAGE

This product is not intended or designed for, and should not be used as an abrasive blasting medium or for foundry applications.

Follow protective controls set forth in Section VIII of this SDS when handling this product.

Respirable quartz-containing dust may be generated during processing, handling and storage. Do not breathe dust.

Avoid contact with skin and eyes.

Do not store near food or beverages or smoking materials.

Do not stand on piles of materials; it may be unstable.

VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Ventilation: Use local exhaust, general ventilation or natural ventilation adequate to maintain exposures below appropriate exposure limits. If a person breathes large amounts of this material, move the exposed person to fresh air at once; other measures are usually unnecessary.

Other control measures: Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including (but not limited to) dust suppression (wetting), ventilation, process enclosure, and enclosed employee work stations.

EYE/FACE PROTECTION

Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated. If product contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this chemical.

SKIN PROTECTION

No personal protection recommended.

RESPIRATORY PROTECTION

Respirator Recommendations:

For respirable quartz levels that exceed or are likely to exceed the TLV, a NIOSH-approved 100 series particulate filter respirator must be worn. If respirable quartz levels exceed or are likely to exceed an 8hr-TWA of 0.5 mg/m^3, a NIOSH-approved air purifying, full-face respirator with a 100 series particulate filter must be worn. Respirator use must comply with applicable MSHA or OSHA standards, which include provisions for a user training program, respirator repair and cleaning, respirator fit testing, and other requirements. For additional information contact NIOSH at 1-800-356-4674.

Emergency or planned entry into unknown concentrations or IDLH conditions: Any self-contained breathing apparatus that has a full-face piece and is operated in a pressure-demand or other positive-pressure mode or any supplied-air respirator that has a full-

face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained
positive-pressure breathing apparatus.
Escape from unknown or IDLH conditions: Any air-purifying, full-face piece respirator with a high-efficiency particulate filter or
any appropriate escape-type, self-contained breathing apparatus.
GENERAL HYGIENE CONSIDERATIONS
There are no known hazards associated with this material when used as recommended. Following the guidelines in this SDS are
recognized as good industrial hygiene practices. Avoid breathing dust. Avoid skin and eye contact. Wash dust-exposed skin with
soap and water before eating, drinking, smoking, and using toilet facilities. Wash work clothes after each use.

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X – STABILITY AND REACTIVITY
STABILITY
Stable
CONDITIONS TO AVOID
Contact with incompatible materials (see below).
INCOMPATIBILITY (Materials to avoid)
Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and
oxygen difluoride may cause fire and/or explosions. Silica dissolves in hydrofluoric acid producing a corrosive gas -- silicon
tetrafluoride.
HAZARDOUS DECOMPOSITION PRODUCTS
Silica containing respirable dust particles may be generated by handling.
XI – TOXICOLOGICAL INFORMATION
This product is a mixture of components. The composition percentages are listed in Section II. Toxicological information for
each component is listed below:
Silicon Dioxide: It is comprised of amorphous and crystalline forms of silica. In some batches, crystalline silica may represent up
to 100% of silicon dioxide.
Respirable crystalline silica (quartz):
ACGIH TLV= 0.05 mg/m^3
MSHA and OSHA PEL:
Crystalline quartz (respirable): PEL-TWA 10 mg/m^3 / (%SiO$_2$ + 2).
Crystobalite: Use ½ the value calculated from the count or mass formulae for quartz.
Tridymite: Use ½ the value calculated from the formulae for quartz.
Other Particulates: TLV = 10 mg/m^3 (inhalable/total particulate, not otherwise classified), TLV = 3 mg/m^3

(respirable particulate,
not otherwise classified), OSHA PEL = 15 mg/m
3
(total particulate, not otherwise regulated), OSHA PEL = 5 mg/m
3
(respirable
particulate, not otherwise regulated)
ACGIH, MSHA, and OSHA have determined that adverse effects are not likely to occur in the workplace provided exposure
levels do not exceed the appropriate TLVs/PELs. Lower exposure limits may be appropriate for some individuals including
persons with pre-existing medical conditions such as those described below.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Inhaling respirable dust and/or crystalline silica may aggravate existing respiratory system disease(s) and/or dysfunctions.
Exposure to dust may aggravate existing skin and/or eye conditions.
Occupational exposure to free silica is known to produce silicosis, a chronic, disabling lung disease characterized by the formation
of silica-containing nodules of scar tissue in the lungs. Simple silicosis, in which the nodules are less than 1 cm in diameter is
IX
–
PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE AND ODOR
Angular or round multicolored particles; odorless.
SPECIFIC GRAVITY.
2.55-2.8
BOILING POINT
Not applicable
VAPOR DENSITY IN AIR (AIR = 1)
Not applicable
VAPOR PRESSURE
Not applicable
% VOLATILE, BY VOLUME
0%
EVAPORATION RATE
Not applicable
SOLUBILITY IN WATER
Negligible

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generally asymptomatic but can be slowly progressive, even in the absence of continued exposure. Silicosis leads to conditions such as lung fibrosis and reduced pulmonary function. The form and severity in which silicosis
manifests itself depends in part on the type and extent of exposure to silica dusts: chronic, accelerated and acute forms are all
recognized. In later stages the critical condition may become disabling and potentially fatal. Restrictive and/or obstructive lung

function changes may result from chronic exposure. A risk associated with silicosis is development of pulmonary tuberculosis
(silico-tuberculosis). Respiratory insufficiencies due to massive fibrosis and reduced pulmonary function, possibly with
accompanying heart failure, are other potential causes of death due to silicosis.
Symptoms of Silicosis: Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis can be
progressive, and symptoms may potentially appear years after exposures have ceased. Symptoms of silicosis may include (but are
not limited to): Shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished
chest expansion; reduction of lung volume; heart enlargement and/or failure.
Respirable dust containing newly broken particles has been shown to be more hazardous to animals in laboratory tests than
respirable dust containing older silica particles of similar size. Respirable silica particles which had aged for sixty days or more
showed less lung injury in animals than equal exposures of respirable dust containing newly broken pieces of silica.
There are reports in the literature indicating that crystalline silica exposure may be associated with adverse health effects involving
the kidney, scleroderma (thickening of the skin caused by swelling and thickening of fibrous tissue) and other autoimmune and
immunity-related disorders. Several studies of persons with silicosis or silica exposure also indicate or suggest increased risk of
developing lung cancer, a risk that may increase with the duration of exposure. Many of these studies of silicosis do not account
for lung cancer confounders, especially smoking. In October 1996, an IARC Working group re-assessing crystalline silica, a
component of this product, designated crystalline silica as a human carcinogen (Group 1carcinogen). The NTP indicates that
crystalline silica is reasonably anticipated to be a human carcinogen (Group 2). These classifications are based on sufficient
evidence of carcinogenicity in certain experimental animals and epidemiological studies of workers exposed to crystalline silica.
Crystalline silica in October 1996 was listed on the Safe Drinking Water and Toxic Enforcement ACT of 1986 (California
Proposition 65) as a chemical known to the state to cause cancer or reproductive toxicity.
Aluminum Oxide:
Exposure route: Eyes, skin, inhalation.
Target organs: Eyes, skin, respiratory system.
Acute effect: Animal studies with α-alumina were reported in 1941. This study found that alumina particles well below 40 µm in
diameter produced a “nuisance particulate” reaction in animals. Very fine Al_2O_3 powder was not fibrogenic in rats, guinea pigs, or
hamsters when inhaled for 6 to 12 months and sacrificed at periods up to 12 months following the last exposure.

Chronic effect/carcinogenicity: Aluminum oxide is not classifiable as to human carcinogen potential. Epidemiologic surveys have
indicated an excess of nonmalignant respiratory disease in workers exposed to aluminum oxide during abrasives production.
Ferric Oxide:
Exposure route: Inhalation.
Target organs: Respiratory system.
Acute effect: Benign pneumoconiosis with X-ray shadows indistinguishable from fibrotic pneumoconiosis. Experimental work in
animals exposed by intratracheal injection or by inhalation to iron oxide mixed with less than 5% silica has shown no evidence of
fibrosis produced in lung tissue.
Chronic effect/carcinogenicity: It is not generally accepted that inhalation or dermal exposure to iron oxide dust or fume poses a
carcinogenic risk to human beings. Not classifiable as to human carcinogen potential.
Ferrous Oxide:
Exposure route: Ingestion, inhalation, skin.
Target organs: Respiratory system, skin, eyes, neurological system.
Acute effect: Major findings: stupor, shock, acidosis, hematemesis, bloody diarrhea or coma. Minor findings: vomiting, diarrhea,

---

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mild lethargy.
Chronic effect/carcinogenicity: Irritability, nausea or vomiting, and normocytic anemia. When exposed to levels greater than 50
to 100 milligram per day, it can result in pathological deposition of iron in the body tissues causing fibrosis of the pancreas,
diabetes mellitus, and liver cirrhosis. Not classifiable as to human carcinogen potential.
Magnesium Oxide:
Exposure route: Inhalation, eye/skin contact.
Target organs: Eyes, respiratory system.
Acute effect: Magnesium oxide dust caused slight irritation of the eyes and nose, conjunctivitis, inflammation of the mucous
membrane, and coughing up discolored sputum after industrial exposures amongst workers exposed to an unspecified
concentration of MgO. Acute toxicity causes nausea, malaise, general depression and paralysis of respiratory, cardiovascular and
central nervous system.
Experiments with cats exposed to freshly formed MgO (magnesium ranging from 21 to 156 mg) fumes plus 10% carbon dioxide
showed uniform but slight hypothermia. These animals rapidly returned to normal and showed no subsequent ill effect upon
cessation of MgO inhalation.
Chronic effect/carcinogenicity: NIOSH has indicated that there may be a carcinogenic risk from exposure to MgO dust.
Calcium Oxide:
Exposure route: Inhalation, ingestion, skin/eye contact.

Target organs: Eyes, skin, respiratory system.
Acute effect: Direct contact of CaO with tissues, can result in burns and severe irritation because of its high reactivity and
alkalinity. Major complaints of workers exposed to lime consist of irritation of the skin and eyes, although inflammation of the
respiratory passages, ulceration and perforation of the nasal septum, and even pneumonia has been attributed to inhalation of the
dust.
Chronic effect/carcinogenicity: Not classifiable as to human carcinogen potential.
Sodium Oxide:
Exposure route: Inhalation, ingestion, skin/eye contact.
Target organs: Eyes, skin, respiratory system.
Acute effect: Corrosive – causes burns, irritation of skin, eyes, respiratory tract, extremely destructive of mucous membranes.
Chronic effect/carcinogenicity: Not classifiable as to human carcinogen potential.
Potassium Oxide
Exposure route: Inhalation, ingestion, skin/eye contact.
Target organs: Eyes, skin, respiratory system.
Acute effect: If inhaled, causes sore throat, cough, burning sensation and shortness of breath. Contact with skin produces pain and
blisters. Severe deep burns, redness and pain occur with eye contact. Ingestion of K_2O results in burning sensations, abdominal
pain, shock or collapse.
Chronic effect/carcinogenicity: Not classifiable as to human carcinogen potential.

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Calcium Carbonate:
Exposure route: Inhalation, skin/eye contact.
Target organs: Eyes, skin, respiratory system.
Acute effect: Irritation of the eyes, skin and respiratory system and cough. It has been reported that there may be a silicosis risk
when using impure limestone containing 3% to 20% quartz. However, it is claimed that pure calcium carbonate does not cause
pneumoconiosis. Adverse health effects have generally not been reported in literature among workers using $CaCO_3$.
Chronic effect/carcinogenicity: Not classifiable as a human carcinogen.
XII – ECOLOGICAL INFORMATION
No data available
XIII – DISPOSAL CONSIDERATIONS
WASTE DISPOSAL METHOD
Collect and reuse clean materials. Dispose of waste materials only in accordance with applicable federal, state, and local laws and
regulations.
XIV – TRANSPORT INFORMATION
DOT HAZARD CLASSIFICATION

None
PLACARD REQUIRED
None
LABEL REQUIRED
Label as required by the OSHA Hazard Communication standard {29 CFR 1910.1200(f)}, and applicable state and local
regulations.
XV – REGULATORY INFORMATION
Crystalline silica, a component of this product, is on the NTP and IARC carcinogen lists, but not on the OSHA carcinogen list. In
October 1996, an IARC Working group re-assessing crystalline silica, a component of this product, designated crystalline silica as
a human carcinogen (Group 1 carcinogen).
Crystalline silica in October 1996 was listed on the Safe Drinking Water and Toxic Enforcement ACT of 1986 (California
Proposition 65) as chemical known to the state to cause cancer or reproductive toxicity.
XVI – OTHER INFORMATION
ACGIH: American Conference of Governmental Industrial Hygienists
CFR: US Code of Federal Regulations
DOT: US Department of Transportation
IARC: International Agency for Research on Cancer
IDLH: Immediately Dangerous to Life and Health
NIOSH: National Institute for Occupational Safety and Health, US Department of Health and Human Services
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration, US Department of Labor

LEHIGH SOUTHWEST CEMENT COMPANY
MATERIAL SAFETY DATA SHEET
FOR
PORTLAND CEMENT

REVISED DATE: OCTOBER, 2002

1. PRODUCT/COMPANY IDENTIFICATION

Supplier:
Lehigh Southwest Cement Company
2300 Clayton Road, Suite 300
Concord, CA 94520
Phone (925) 609-6920
Fax (925) 609-6930
Contact Number:
(USE SALES OFFICE PHONE NUMBER)

Chemical Family: Calcium Compounds

Chemical Name and Synonyms:
Portland Cement (CAS # 65997-15-1), Hydraulic Cement Types I, I (WRA), II, III, V

Trade Name and Synonyms:
Lehigh Portland Cement Types I, II, III, V
Lehigh Plastic Cement

2. EMERGENCY AND FIRST AID

EMERGENCY INFORMATION: Portland cement is a light gray or white powder. When in contact with moisture in eyes or on skin, or when mixed with water, portland cement becomes highly caustic (pH > 12) and will damage or burn (as severely as third-degree) the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 10.

EYES: Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

SKIN: Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

INHALATION: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of portland cement require immediate medical attention.

INGESTION: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

ACCIDENTIAL RELEASE MEASURES Clean up spilled material without causing it to become airborne or mixed with water to limit potential harm. Wear appropriate personal protective equipment. Dispose of waste material according to local, state or federal regulations.

3. COMPOSITION INFORMATION

DESCRIPTION:

This product consists of finely ground portland cement clinker mixed with a small amount of gypsum (calcium sulfate dihydrate). The portland cement clinker is made by heating to a high temperature a mixture of substances such as limestone, sand, clay and shale. Portland cement is essentially hydraulic calcium silicates contained in a crystalline mass, not separable into individual components. Major compounds are:

$3CaO \cdot SiO_2$	Tricalcium Silicate	CAS #12168-85-3
$2CaO \cdot SiO_2$	Dicalcium Silicate	CAS #10034-77-2
$3CaO \cdot Al_2O_3$	Tricalcium Aluminate	CAS #12042-78-3
$4CaO \cdot Al_2O_3 \cdot Fe_2O_3$	Tetracalcium aluminoferrite	CAS #12068-35-8
$CaSO_4 \cdot 2H_2O$	Calcium Sulfate dihydrate (Gypsum)	CAS #7778-18-9 (CAS #13397-24-5)

4. HAZARDOUS INGREDIENTS

COMPONENT	OSHA PEL (8-Hour TWA)	ACGIH TLV-TWA (1995-1996)	NIOSH REL (8-Hour TWA)
Portland Cement (CAS #65997-15-1) 50 to 95% by weight	5 mg respirable dust/m³ 15 mg total dust/m³	10 mg total dust/m³	
Calcium sulfate (CAS #7778-18-9) [Gypsum (CAS #13397-24-5)] 0 to 10% by weight	5 mg respirable dust/m³ 15 mg total dust/m³	10 mg total dust/m³	
Iron oxide (CAS #1309-37-1) 0 to 15% by weight	10 mg/m³	5 mg/m³	
Calcium carbonate (CAS #1317-65-3) 0 to 5% by weight	5 mg respirable dust/m³ 15 mg total dust/m³	10 mg total dust/m³	
Magnesium oxide (CAS #1309-48-4) 0 to 5% by weight	15 mg total dust/m³	10 mg total dust/m³	
Calcium oxide (CAS #1305-78-8) 0 to 5%[1] by weight	5 mg/m³	2 mg/m³	
Crystalline silica (CAS #14808-60-7) 0 to 5% by weight	10 mg of respirable dust/m³ / % SiO_2 + 2 30 mg of total dust/m³ / % SiO_2 + 2 250 million particles/ft³ / % SiO_2 + 5	0.05 mg respirable quartz/m³	0.05 mg respirable quartz dust/m³

TRACE INGREDIENTS:

Due to the use of substances mined from the earth's crust, trace amounts of naturally occurring, potentially harmful constituents may be detected during chemical analysis. Portland cement may contain up to 0.75% insoluble residue. A small amount of this residue includes free crystalline silica. Portland cement also may contain trace (<0.05%) amounts of chromium salts or compounds (including hexavalent chromium) or other metals (including nickel compounds) found to be hazardous or toxic in some chemical forms. These metals are present mostly as trace substitutions within the principal minerals. Other trace constituents may include potassium and sodium sulfate compounds.

[1] If Portland/Lime blended product "0 to 25%" values.

5. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

NOTE: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in Section 10.

EYE CONTACT:

(Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea. Eye contact by larger amounts of dry powder or splashes of wet portland cement may cause effects ranging from moderate eye irritation to chemical burns and blindness.

SKIN CONTACT:

(Acute) Exposure to dry portland cement may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure.

(Chronic) Dry portland cement coming in contact with wet skin or exposure to wet portland cement may cause more severe skin effects, including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns.

(Acute/Chronic) Some individuals may exhibit an allergic response upon exposure to portland cement. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.

INHALATION:

(Acute) Exposure to portland cement may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system. Pre-existing upper respiratory and lung diseases may be aggravated by inhalation of portland cement.

(Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

INGESTION:

(Acute/Chronic) Internal discomfort or ill effects are possible if large quantities are swallowed.

CARCINOGENIC POTENTIAL:

Portland cement is not recognized as a carcinogen by NTP, OSHA, or IARC. However, it may contain trace amounts of heavy metals recognized as carcinogens by these organizations. In addition, IARC classifies crystalline silica, a trace constituent, as a known human carcinogen (Group I). NTP has characterized respirable silica as "reasonably anticipated to be a carcinogen." (See also Section 13.)

6. PHYSICAL/CHEMICAL DATA

APPEARANCE/ODOR:	Gray, white or colored powder, odorless	PHYSICAL STATE:	Solid (Powder)
BOILING POINT:	> 1000°C	MELTING POINT:	Not applicable
VAPOR PRESSURE:	Not applicable	VAPOR DENSITY:	Not applicable
pH (IN WATER) (ASTM D 1293-95)	12 to 13	SOLUBILITY IN WATER:	Slightly soluble (0.1% to 1.0%)
SPECIFIC GRAVITY (H_2O = 1.0):	3.15	EVAPORATION RATE:	Not applicable

7. FIRE AND EXPLOSION

FLASH POINT:	None	LOWER EXPLOSIVE LIMIT:	None
AUTO IGNITION TEMPERATURE:	Not combustible	UPPER EXPLOSIVE LIMIT:	None
FLAMMABLE LIMITS	Not applicable	SPECIAL FIRE FIGHTING PROCEDURES:	None
EXTINGUISHING MEDIA:	Not combustible	UNUSUAL FIRE AND EXPLOSION HAZARDS:	None
HAZARDOUS COMBUSTION PRODUCTS:	None		

8. STABILITY AND REACTIVITY DATA

STABILITY: Product is stable. Keep dry until used.

CONDITIONS TO AVOID: Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.

INCOMPATIBILITY: Wet portland cement is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.

HAZARDOUS DECOMPOSITION: Will not occur.

HAZARDOUS POLYMERIZATION: Will not occur.

9. PRECAUTIONS FOR HANDLING, STORAGE AND DISPOSAL

HANDLING AND STORAGE Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section 10.

SPILL: Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate container for disposal or use. Avoid inhalation of dust and contact with skin and eyes. Use exposure control and personal protection methods as described in Section 10.

DISPOSAL: Comply with all applicable local, state and federal regulations for disposal of unusable or contaminated materials. Dispose of packaging/containers according to local, state and federal regulations.

10. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air. If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.
EYE PROTECTION:	Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environments and unpredictable environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products.
SKIN PROTECTION:	Wear impervious abrasion- and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with dry portland cement or clothing dampened with moisture mixed with portland cement, and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

11. TRANSPORTATION DATA

Portland cement is not hazardous under U.S. DOT regulations.

12. TOXICOLOGICAL AND ECOLOGICAL INFORMATION

For a description of available, more detailed toxicological and ecological information, contact Lehigh Cement Company.

13. OTHER REGULATORY INFORMATION

Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:	Portland cement is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.
Status under CERCLA/Superfund, 40 CFR 117 and 302:	Not listed.
Hazard Category under SARA (Title III), Sections 311 and 312:	Portland cement qualifies as a hazardous substance with delayed health effects.
Status under SARA (Title III), Section 313:	Maybe subject to reporting requirements under Section 313. Contact sales office for further information.
Status under TSCA (as of May 1997):	Some substances in portland cement are on the TSCA inventory list.
Status under the Federal Hazardous Substances Act:	Portland cement is a hazardous substance subject to statutes promulgated under the subject act.

Status under California Proposition 65:	This product contains crystalline silica, a substance known to the State of California to cause cancer. This product also may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects or other reproductive harm.

14. OTHER INFORMATION

This MSDS provides information on various types of portland cement products. A particular product's composition may vary from sample to sample. The information provided herein is believed by Lehigh Cement Company to be accurate at the time of preparation or prepared from sources believed to be reliable. Health and safety precautions in this data sheet may not be adequate for all individuals or situations. Users have the responsibility to comply with all laws and procedures applicable to the safe handling and use of the product, to determine the suitability of the product for its intended use, and to understand possible hazards associated with mixing portland cement with other materials. This product neither contains nor is directly manufactured with any controlled ozone depleting substances, Class I and II. SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY LEHIGH CEMENT COMPANY.

ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygienists
ASTM	American Society for Testing and Materials
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
ft^3	Cubic foot
IARC	International Agency for Research on Cancer
m^3	Cubic meter
mg	Milligram
MSHA	Mine Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average

Material Safety Data Sheet: **Simple Green® All-Purpose Cleaner**
Simple Green® Scrubbing Pad
Version No. 1300509A Date of Issue: January 2009 *ANSI-Z400.1-2003 Format*

Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Simple Green® All-Purpose Cleaner
Simple Green® Scrubbing Pad
Additional Name: Simple Green® Concentrated Cleaner/Degreaser/Deodorizer

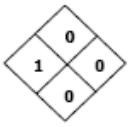
Manufacturer's Product Code Numbers: **Please refer to page 4*

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Harbour, CA 92649 USA
Telephone: 800-228-0709 • 562-795-6000 Fax: 562-592-3830
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Use of Product: An all purpose cleaner and degreaser used diluted in water for direct, spray and dip tank procedures. Scrubbing pad is used with water for manual scrubbing applications. Both are for cleaning water-safe surfaces.

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Mild eye irritant.
Simple Green® is a dark green liquid with a sassafras odor. Scrubbing Pad is a green fibrous rectangle.



HMIS Rating:
Health = 1 = slight
Fire = 0
Reactivity, and Special = 0 = minimal

Eye Contact: Mild Eye Irritant.

Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Under this condition, use of gloves or skin moisturizer after washing may be indicated.

Ingestion: May cause stomach or intestinal upset if swallowed (due to detersive properties.)

Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present when using Simple Green® over a prolonged period of time. Open windows or ventilate via fan or other air-moving equipment if necessary.

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Medical Conditions: No medical conditions are known to be aggravated by exposure to Simple Green®. Dermal-sensitive users may experience mild but reversible reactions.

UN Number: Not Required **Dangerous Goods Class:** Non-hazardous

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

The only ingredient of Simple Green® with established exposure limits is undiluted 2-butoxyethanol (<4%) (Butyl Cellosolve; CAS No. 111-76-2) [*1% for Scrubbing Pad*]: the ACGIH TLV-TWA is 20 ppm (97 mg/m^3). Based upon chemical analysis, Simple Green® contains no known EPA priority pollutants, heavy metals or chemicals listed under RCRA, CERCLA, or CWA. Analysis by TCLP (Toxicity Characteristic Leaching Procedure) according to RCRA revealed no toxic organic or inorganic constituents.

All components of Simple Green® are listed on the TSCA Chemical Substance Inventory.
This product does not contain any ingredients covered by the provisions of 29 CFR 1910.1200.

Section 4: FIRST AID MEASURES

Eye Contact:	Reddening may develop. Immediately rinse the eye with large quantities of cool water; continue 10-15 minutes or until the material has been removed; be sure to remove contact lenses, if present, and to lift upper and lower lids during rinsing. Get medical attention if irritation persists.
Skin Contact:	Minimal effects, if any; rinse skin with water, rinse shoes and launder clothing before reuse. Reversible reddening may occur in some dermal-sensitive users; thoroughly rinse area and get medical attention if reaction persists.
Swallowing;	Essentially non-toxic. Give several glasses of water to dilute; do not induce vomiting. If stomach upset occurs, consult physician.
Inhalation:	Non-toxic. Exposure to concentrate may cause mild irritation of nasal passages or throat; remove to fresh air. Get medical attention if irritation persists.

Section 5: FIRE FIGHTING MEASURES

Simple Green® is stable, not flammable, and will not burn. No special procedures required.

Flash Point/Auto-Ignition: Not flammable. Extinguishing Media: Not flammable/non-explosive.
Flammability Limits: Not flammable. Special Fire Fighting Procedures: None required.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

Method for cleaning up: Recover usable material by convenient method, residual may be removed by wipe or wet mop. If necessary, unrecoverable material may be washed to drain with large quantities of water.

Section 7: HANDLING AND STORAGE

No Special precautions are required. **This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations.** Simple Green® requires no special labeling or placarding to meet U.S. Department of Transportation requirements.

UN Number: Not Required **Dangerous Goods Class:** Non-hazardous

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	The Simple Green® formulation presents no health hazards to the user when used according to label directions for its intended purposes. Mild skin and eye irritation is possible (please see Eye contact and Skin contact in section IV.) No special precautionary measures required under normal use conditions.
Ventilation:	No special ventilation, precautions or respiratory protection is required during normal use. Large-scale use indoors should provide an increased rate of air exchange.
Human Health Effects or Risks From Exposure:	Adverse effects on human health are not expected from Simple Green®, based on 20 years of use of Simple Green® without reported adverse health incidence in diverse population groups, including extensive use by inmates of U.S. Federal prisons in cleaning operations.
Eye protection:	Simple Green® is a mild eye irritant; mucous membranes may become irritated by concentrate. Eye protection not generally required. Wash hands after using wipes.
Skin protection:	Simple Green® is not likely to irritate the skin in the majority of users. Repeated daily application to the skin without rinsing, or continuous contact on the skin may lead to temporary, but reversible, irritation. Rinse completely from skin after contact.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION – continued –

General hygiene conditions: There are no known hazards associated with this material when used as recommended.
The following general hygiene considerations are recognized as common good industrial hygiene practices:

- Avoid breathing vapor or mist.
- Avoid contact with eyes.
- Wash thoroughly after handling and before eating, drinking, or smoking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Cleaner is a dark green liquid, pad is a fibrous green matrix; both exhibit a sassafras odor.			
Specific Gravity:	1.010 ± 0.010	**Vapor Pressure:**	18 mm Hg @ 20°C; 23.5 mmHg @ 26°C
Evaporation:	>1 (butyl acetate = 1)	**Vapor Density:**	1.3 (air = 1)
Water Solubility:	100%	**Density:**	8.5 lbs/gallon
Boiling Point:	100.6°C (212°F)	**pH:**	9.5 ± 0.3
Ash Content:	At 600°F: 1.86% by weight	**Nutrient Content:** Phosphorus: 0.3% by formula Nitrogen <1.0% by weight (fusion and qualitative test for ammonia) Sulfur: 0.6% by weight (barium chloride precipitation method)	
Freezing Point: Approx -9 °C (16 °F) *If product freezes, it will reconstitute without loss of efficacy when brought back to room temperature and agitated.*			
VOC Composite Partial Pressure: 0.006 mmHg @ 20°C			
Volatile Organic Compounds (VOCs): CARB Method 310 3.8% SCAQMD Method 313 2.8%	Cleaner meets CARB & BAAQMD regulations. Cleaner must be diluted 1:1 with water to Meet SCAQMD Rule 1171 & Rule 1122 VOC requirements for solvent cleaning operations. [*Scrubber VOCs = 3.3% prior to dilution w/water*]		

Section 10: STABILITY AND REACTIVITY

Stability: Stable
Materials to Avoid: None known
Hazardous Decomposition Products: None expected

Section 11: TOXICOLOGICAL INFORMATION

Toxicology information is based on chemical profile of ingredients and extrapolation of data from similar formulas.

Acute Toxicity: Oral LD_{50} (rat) >5 g/kg body weight* **Calculation from OECD series on testing and assessment number 33, Chapter 3.2*
Dermal LD_{50} (rabbit) >2 g/kg body weight

Eye Irritation: Moderate/Mild reversible eye irritation may occur based on relevant laboratory studies. This potential is reduced by immediate rinsing of eyes in case of eye contact.

Dermal Irritation: Mild, reversible skin irritation may occur based on relevant laboratory studies. A 6-hour exposure to human skin under a patch did not produce irritation

Repeat Exposure Via Skin Contact: Based on relevant laboratory studies, no toxic effects are expected to be associated with daily skin exposures (with up to 2 g/kg/day tested for 13 weeks on rabbits). Skin irritation may, however, occur with repeated or prolonged exposures.

Reproductive Effects Assessment: Based on relevant laboratory studies (CD-1 mouse 18-week fertility assessment continuous breeding), no adverse effects on reproduction, fertility, or health of offspring are expected.

Material Safety Data Sheet: **Simple Green® All-Purpose Cleaner**
Simple Green® Scrubbing Pad

Version No. 1300509A Date of Issue: January 2009 *ANSI-Z400.1-2003 Format*

Section 12: ECOLOGICAL INFORMATION

Hazard to wild animals & aquatic organisms: Low, based on toxicological profile.

Biodegradability: Readily biodegradable based on biodegradation profile,
PRO/FT CBT-AC 014-7 "Ready Biodegradability: Closed Bottle Test" OECD, and OECD 302B laboratory tests

Environmental Toxicity Information: It is important not to allow the runoff from cleaning into closed systems such as decorative ponds. Always protect closed systems with tarps or dikes if necessary.

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal laws. Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

This product is non-hazardous for transport according to the U.S. Department of Transportation Services
UN Number: Not required Dangerous Goods Class: Non-hazardous

Section 15: REGULATORY INFORMATION

*Reportable components:

All components are listed on:	EINECS and TSCA Inventory		
No components listed under:	Clean Air Act Section 112		
SARA:	This material contains 2-Butoxyethanol, < 4%, (CAS# 111-76-2) which is subject to the reporting requirements of Section 313 of SARA Title III and 49 CFR Part 373.		
RCRA Status:	Not a hazardous waste.	CERCLA Status:	No components listed
TSCA TRI Reporting:	Not required / Not listed	CA PROP. 65 Status:	No components listed

Section 16: OTHER INFORMATION

Questions about the information found on this MSDS should be directed to:
SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT
15922 Pacific Coast Hwy. Huntington Harbour, CA 92649

Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri] *Fax:* 562/592-3830 *Email:* infoweb@simplegreen.com

CAGE CODE 1Z575
GSA/FSS - CONTRACT NO. GS-07F-0065J
National Stock Numbers & Industrial Part Numbers:

	Part Number	NSN	Size
Simple Green	13012	7930-01-342-5315	24 oz spray (12/case)
	13005	7930-01-306-8369	1 Gallon (6/case)
	13006	7930-01-342-5316	5 Gallon
	13016	7930-01-342-5317	15 Gallon
	13008	7930-01-342-4145	55 Gallon
Scrubbing Pad	Part Number	NSN	Size
	10224	7930-01-346-9148	Each (24/case)

Retail Numbers:

Part Number	Size
13002	16 oz Trigger (12/case)
13005	1 Gallon (6/case)
13013	24 oz Trigger (12/case)
13014	67 oz / 2 L (6/case)
13033	32 oz Trigger (12/case)

** part number is for both industrial and retail*
****International Part Numbers May Differ.**

DISCLAIMER: The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.

Attachment D

Pre-Entry Briefing Attendance Sheet

Health and Safety Plan Pre-Entry Briefing Attendance Form
PCB Site Investigation of Third Avenue Yard

Brooklyn, New York

Conducted by:		**Date Performed:**	
Topics Discussed:	1. Review of the content of the HASP (Required)		
	2.		
	3.		
	4.		

Printed Name	**Signature**	**Representing**

Attachment E

Con Edison Accident Investigation Report Form

CONSOLIDATED EDISON COMPANY OF NEW YORK
CONSTRUCTION EH&S
CONTRACTOR INJURY REPORT

Injury Date: _____ *Time of Injury:* _____ *Work Location:* _____

Date Reported: _____ *Time Reported:* _____

Name of Injured: _____ *Contractor Co:* _____

Home Address: _____

Date of Birth: _____ *SS# (Last 4 digits):* _____ *Length of Svce:* _____

Supervisor: _____ *Phone:* _____ *Shift:* _____

PART OF BODY
Be as specific as possible (e.g. right index finger, left foot, etc.)

_____	1. Head	_____	15. Chest
_____	2. Nose	_____	16. Abdomen
_____	3. Ears	_____	17. Back
_____	4. Eyes	_____	18. Hip
_____	5. Mouth	_____	19. Knee
_____	6. Face	_____	20. Ankle
_____	7. Jaw	_____	21. Leg
_____	8. Neck	_____	22. Foot
_____	9. Shoulder	_____	23. Toe
_____	10. Elbow	_____	24. Body
_____	11. Wrist	_____	25. Heart
_____	12. Arm	_____	26. Lungs
_____	13. Hand	_____	27. Skin
_____	14. Finger	_____	28. Throat

NATURE OF INJURY / ILLNESS

_____	1. Laceration	_____	9. Burns
_____	2. Puncture	_____	10. Shock
_____	3. Contusion / Bruise	_____	11. Inhalation
_____	4. Sprain / Strain	_____	12. Infection
_____	5. Fracture / Dislocation	_____	13. Hernia
_____	6. Concussion	_____	14. Skin Disorder
_____	7. Amputation	_____	15. Irritation
_____	8. Foreign Matter	_____	16. Unconsciousness

INJURY CLASSIFICATION

Medical Treatment _____
Restrictions (if yes, please describe): _____
Lost Time _____
First Aid _____
Non-recordable (FYI) _____

TYPE OF INCIDENT

_____	1. Animal	_____	10. Falling Objects	_____	19. Stepped In	_____	28. Steam
_____	2. Insect	_____	11. Gas / Fumes	_____	20. Caught Between	_____	29. Heat
_____	3. Electric flash	_____	12. Handling Objects	_____	21. Altercation	_____	30. Sun
_____	4. Electric contact	_____	13. Pushing Objects	_____	22. Improper Body Pos	_____	31. Chemicals
_____	5. Burns (Other)	_____	14. Pulling Objects	_____	23. Vehicle Accident	_____	32. Plants
_____	6. Slip	_____	15. Lifting Objects	_____	24. Improper Tool Use	_____	33. Carrying Obj
_____	7. Trip	_____	16. Striking Objects	_____	25. Flames	_____	34. Hearing Loss
_____	8. Fall	_____	17. Struck By Objects	_____	26. Smoke	_____	35. Repetitive Motion
_____	9. Flying Objects	_____	18. Stepped On	_____	27. Vapors	_____	36. Other

Describe nature, extent and type of injury (if not listed above): _____

Describe fully how injury was sustained: _____

Witnesses (Name & Address): 1) _____
2) _____

Hospital: _____ Address: _____

Physician: _____ Admitted to Hospital: _____YES _____NO

Treatment Received: _____

Report Prepared By: _____ Emp #: _____ Phone: _____ Date: _____

CCI / Supervisor: _____ Emp #: _____ Phone: _____

EH&S Rep: _____ Emp #: _____ Phone: _____

PO # _____

If you cannot e-mail the form, then you may fax it to: Construction EHS&T at 917-534-4490

Attachment F

AECOM's Supervisor Report of Incident Form

Supervisor's Report of Incident

1. Seek immediate medical attention if necessary.
2. Employee must report **all** incidents to their supervisor **immediately**.
3. Supervisor calls the Incident, Injury and Near Miss Reporting Line at **(800) 348-5046**.

Section 1 - Organization Information

Region: ☐West ☐ Midwest ☐ Southwest/Mountain ☐ Southeast ☐ Mid-Atlantic ☐ Northeast	District:	Section/Dept Number:
Business Line: ☐ Infrastructure-Water ☐ Infrastructure-Transportation ☐ Infrastructure-Energy & Power ☐ PDD-Facilities ☐ PDD-Design ☐ Environmental		Office Name:
Client Name:		Project Number:
Project Name:		

Section 2 - Type of Incident (**SRI Sections to be Completed**)

☐ Injury/ illness (Sections 3, 4, and 7)	☐ Vehicle Incident (Sections 3, 4, 5, and 7)	☐ Property Damage (Sections 3, 4, 6 and 7)	☐Environmental Spill/Release ☐ (Sections 3, 4, and 7)
☐ Regulatory Inspection or Notification: (Sections 3, 4,7)			☐ Other (describe)

Section 3 – Contact/Incident Information

Employee/Claimant Name:		Employee Job Title:	☐ Full-Time Employee ☐ Subcontractor/Subconsultant ☐ Temp Agency Employee ☐ Part-Time Employee ☐ Third Party Employee
Work Phone:	Cell Phone:	Home Phone:	Employee Number:
Date/Time of Incident:		Date/Time Reported to Supervisor:	
Street Address of Incident or approximately:		City:	State/Zip:
Body Part Injured:		Type of Treatment: Medical/hospital or doctor ☐ First Aid Only ☐	

Medical Facility Contact Info: (Name, Address, Phone)

Section 4 - Descriptions of Incident *(employee, supervisor and witness statements)*

Employee Description of Incident: *(use additional paper if necessary)*	
Employee Signature:	**Date and Time:**

Supervisor Description of Incident: (*Supervisor signs in Section 7*) (*use additional paper if necessary*)

Witness Name :	Witness Address:	Witness Phone No.:
Witness Description of the Incident: (*use additional paper if necessary*)		
Witness Signature:		***Date and time:***

Section 5 - Vehicle Incident Information *(fill out for motor vehicle incidents only)*

5a - AECOM Driver Name:		Drivers License #:	State Issued:	Expiration Date:	
Vehicle Year:	Make:	Model:	Color:	License Plate:	State:
VIN Number:					
AECOM Vehicle was: ☐ AECOM Owned ☐ Rented ☐ Leased ☐ Personal Vehicle		**Who was involved?** ☐ AECOM Vehicle*(Section 5a)* ☐ Another Vehicle*(Section 5b)* ☐ Pedestrian ☐ Property			
Use of Vehicle at Time of Incident: ☐ Office Visit ☐ Site Visit ☐ Client Meetings ☐ Field Work ☐ Personal ☐ Other_____			Vehicle Type: ☐ Commercial Motor Vehicle ☐ Non Commercial Motor Vehicle		

5b - Name of Other Driver:		Address:	City:	State/Zip:	
Work Phone:		Cell Phone:			
Date of Birth:	Drivers License #:	State Issued:	Expiration Date:		
Vehicle Year:	Make:	Model:	Color:	License Plate:	State:
VIN Number, Insurance Company Name, Insurance Policy Number:					

If *Vehicle Owner* is different from driver then complete owner's contact information	**Owner Name:**	
	Address, City, State, Zip:	
	Work Phone:	Cell Phone:
Authorities contacted? ☐ Yes ☐ No	If so, who responded?	
Citations Issued? ☐ Yes ☐ No	Type of Citation:	Person Cited:

Section 6 - General Liability (*Fill out for property damage only*)

Description of damaged property:	
Where can the property be seen?	
Property Owner Name:	
Address, City, State, Zip:	
Work Phone:	Cell Phone:

Section 7- Signatures

Supervisor

Print Name:	Signature:	Date:	Telephone:

Office/Location Manager

Print Name:	Signature:	Date:	Telephone:

Regional EH&S Manager

Print Name:	Signature:	Date:	Telephone:
Comments:			

Attention: This form must be completed and forward to the Regional SH&E Manager within one (1) business day following the occurrence of the incident.

Attachment G

Con Edison-Corporate Environmental, Health and Safety Procedures

- CEHSP E08.02- Noise Construction and Utility Activities
- CEHSP S05.03- Personal Protective Equipment
- CEHSP S12.00-Lockout/ Tagout Procedures
- CEHSP S17.01- Electrical Enclosed Spaces
- CEHSP A28.00- Calling a Time Out
- CEHSP S31.01- Protection of Adjoining Property
- CEHSP A32.00 Rules We Live By

Work Area Protection and Traffic Control Field Manual

ENVIRONMENTAL, HEALTH AND SAFETY PROCEDURE

EHSP A32.00 – Rules We Live By
Revision Date: 12/31/2014 Effective Date: 01/01/2015

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- 4.1.3 – REPORTING AND INVESTIGATION
- 4.2 – VIOLATION OF A RULE WE LIVE BY
- 4.3 – DEFINITIONS

RULES WE LIVE BY TABLE

1.0 PURPOSE

This procedure establishes a consistent approach to communicating and reinforcing the importance of following critical safety work practices designed to protect employees, contractors, and the public.

2.0 APPLICABILITY

This Environmental, Health and Safety Procedure (EHSP) applies to all Con Edison employees (management and union) and contractor employees working for Con Edison.

3.0 INTRODUCTION

There are safety and operational procedures specifically designed to protect against the potential for significant injury due to the energy (electricity, gas, steam, or falling from elevation) that must be controlled. Operating groups that work with these sources of energy have identified Rules We Live By. At The Learning Center, the RWLB associated with a given activity of an operating department apply. This is defined as a work procedure or safety requirement that, if not followed, could result in a severe injury or fatality, or place other individuals (employees or members of the public) at significant risk.

4.0 COMPLIANCE REQUIREMENTS

4.1 RULES WE LIVE BY IDENTIFICATION, TRAINING, AND REPORTING

4.1.1 IDENTIFICATION

Where work tasks require the safe control of electricity, gas, steam, or work at elevation, the operating organization must identify key procedures required to control the energy or mitigate the effect or impact onto the employee, fellow employees, contractor employees or the public. Lessons learned from previous incidents must be included in the identification process.

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An organization must notify Corporate EH&S of any change to a Rule.

4.1.2 TRAINING AND COMMUNICATION

An organization's Rules We Live By and associated procedures must be reinforced in applicable skills training.

Each employee in the organization must receive OJT training on the Rules We Live By identified by the organization.

Rules We Live By must be reinforced, when applicable, in job briefings.

Rules We Live By must be incorporated into the scope of safety field observations and inspections.

Where contractor work practices involve Rules We Live By, contractor employees will be trained on the applicable Rules We Live By, reporting procedure, and consequences. The operating organization must communicate the applicable Rules to contractor management and ensure the Rules are incorporated in the HASP. The contractor supervisor will be required to train their affected employees and subcontractor employees before they begin work.

4.1.3 REPORTING AND INVESTIGATION

If a supervisor observes a Rule We Live By being violated, the work must be stopped immediately.

If an employee, not a supervisor, believes a Rule We Live By may have been violated, he/she must stop the work immediately and report the situation to the supervisor of the employee who committed the alleged violation.

Resolution of the alleged violation must follow the Time Out process as defined in EHSP A28.00 – Calling a Time Out.

4.2 VIOLATION OF A RULE WE LIVE BY

A violation of a Rule We Live By will result in significant consequences.

Any employee who witnesses a violation of a Rule We Live By and does not stop the work and report the violation will also be considered to have violated the Rule.

A violation by a contractor company or by a sub-contractor must be reported via an action line by the operating organization with contractor oversight.

The organization must notify EH&S after action has been taken as a result of the violation.

4.3 DEFINITIONS

Con Edison employee: This includes all management and union employees.

Contractor employee: This includes all per-diem contractor employees and those employees working for a contractor company hired by Con Edison.

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REVISION HISTORY

Revision Date	Revision #	Summary of Change	Author
1/21/14	2013 Annual Review	*CEHSP A32.00.01 RWLB - Table*: Permits, Electric Ops – Added language to clarify that entry for work in structures containing d-faulted feeders is permissible after associated source equipment has been de-energized.	G. Slintak
4/23/14	2013, Revision 1	*CEHSP A32.00.01 RWLB - Table*: Adjusted high hazard PPE rule as applied to Gas Operations in response to 4/22 request. Change clarifies the attachment point for use of PPE (previously associated with "blowing gas," a subjective term).	G. Slintak
5/16/14	2	Combined 'CEHSP A32.00 – Rules We Live By' and 'CEHSP A32.00.01 – Rules We Live By Table' into one document. The table will be an attachment to the procedure.	S. Ng
12/31/14	2014 Annual Review Rev. 3	Edits to reflect organization changes. Minor changes to clarify rules.	W. Capune

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RULES WE LIVE BY 2015

Hazard	Electric Operations	Central Operations	Gas Operations	Customer Operations	Business Shared Supply Chain	Enterprise Shared Services & Shared Services
Verify Dead/Lockout-Tag Out	Properly test or spear to ensure that electric equipment, cable, or wire is "dead" as required regardless of voltage, before beginning dead work activities.	Properly test or verify that equipment is de-energized, isolated and protected prior to initiating dead work activities.				Properly lock out/tag out equipment before beginning work on the equipment. (when not intentionally live and PPE is required)
Permits (Operating, D-faults)	Enter D-Fault tagged structures only when authorized by the operating authority to perform feeder processing, or to perform work after all D-faults have been identified and de-energized.	• Only perform work that is within the authorized scope of work as listed on the work permit. • Do not change the status of a piece of equipment that has a Stop Tag applied to it. • Follow the sequence of an operating order.		Do not enter a structure that has been classified and tagged as a D-fault.		Only perform work that is within the authorized scope of work as listed on the work permit
Atmospheric Testing	• Perform air monitoring and ventilate as required for entry and work in an enclosed space or a permit-required confined space. • For excavations greater than 4 feet in depth the atmosphere shall be tested prior to entry or when the excavation is not already occupied.	Perform air monitoring and ventilate as required for entry and work in an enclosed space or a permit-required confined space. • For excavations greater than 4 feet in depth the atmosphere shall be tested prior to entry or when the excavation is not already occupied.	• Perform air monitoring and ventilate as required for entry and work in an enclosed space or a permit-required confined space. • For excavations greater than 4 feet in depth the atmosphere shall be tested prior to entry or when the excavation is not already occupied.	Perform air monitoring and ventilate as required for entry and work in an enclosed space or a permit-required confined space.		Perform air monitoring and ventilate as required for entry and work in an enclosed space or a permit-required confined space.
Rescue/Retrieval	Entrant and attendant are required to wear rescue harness when working in enclosed spaces.	Entrant and attendant are required to wear rescue harness when working in enclosed spaces.	Entrant and attendant working in enclosed spaces shall wear rescue harnesses, when required.	Entrant and attendant are required to wear rescue harness when working in enclosed spaces.		Entrant and attendant are required to wear rescue harness when working in enclosed spaces
High Hazard Energy PPE	• Use fall protection equipment as required. • Use appropriate rubber gloves with protective gauntlets, rubber sleeves, fire retardant clothing and eye/protection face shield as required for the electrical hazard.	• Use fall protection equipment as required. • Use the appropriate rubber gloves, rubber sleeves, fire retardant clothing, and eye protection/face shield as required for the electrical hazard. • In Steam Distribution, use appropriate water resistant coveralls and face shields before disconnecting any piping from the dead side of the trap valve up to and including the trap inlet valves and trap bypass valve. These coveralls and face shields must be worn until all piping is reconnected.	• Use fall protection equipment as required. • Wear airline respirator, FR coveralls, Fr hood & FR gloves or liners as required by IP-42	• Use fall protection equipment as required. • Use appropriate rubber gloves, rubber sleeves, fire retardant clothing, and eye protection/face shield as required for electrical work. • Do not come into contact or move a downed or low hanging utility wire while performing Site Safety or Damage Assessment work.	Use fall protection equipment as required.	• Use fall protection equipment as required • Use the appropriate rubber gloves, rubber sleeves, fire retardant clothing, and eye protection/face shield as required for the electrical hazard
Sheeting/Shoring			Ensure that excavations five feet or deeper are properly sheeted and shored before anyone enters.			
Gas Piping Integrity Test			Perform an integrity test before a customer turn-on.	Perform an integrity test before a customer turn-on.		
Securing Loads						Reels over 5,000lbs (individually or when bundled together) are secured per NYS Metal Coil requirements

Please note: At The Learning Center, the RWLB associated with a given activity of an operating department apply.

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

ENVIRONMENTAL, HEALTH AND SAFETY PROCEDURE

CEHSP A28.00 – Calling A Time Out
Revision 5: 11/11/2014 Effective Date: 01/01/2015

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SECTION 6.0 – RESPONSIBILITIES
SECTION 7.0 – REFERENCES

1.0 PURPOSE

IT IS THE POLICY OF CON EDISON TO MINIMIZE ENVIRONMENTAL, HEALTH AND SAFETY (EH&S) CONCERNS WHENEVER POSSIBLE. This procedure outlines the process for calling a ***Time Out*** or work stoppage due to a safety, health and/or an environmental concern and resolving the Time Out before proceeding with work.

2.0 APPLICABILITY

This Environmental, Health and Safety Procedure (EHSP) applies to all Con Edison employees and contractors.

3.0 INTRODUCTION

The company's commitment to EH&S excellence requires that all work proceed only if it is safe and environmentally sound. The responsibility for fulfilling this requirement rests with every employee and contractor. Success depends on open communication between individuals and their supervisors prior to beginning work, and – in certain cases – after EH&S issues are identified.

4.0 COMPLIANCE REQUIREMENTS

4.1 CALLING A TIME OUT

All work shifts must begin with a job briefing in which safety, health, and environmental issues are discussed. If an employee has an EH&S concern, he/she must discuss it with his/her supervisor before proceeding with the job. Work cannot not start until both supervisor and employees agree that all EH&S concerns are resolved.

When a safety, health, and/or environmental concern arises on a job, the concerned employee must stop the work in question and immediately contact his/her supervisor to provide

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information regarding the nature of the hazard or EH&S-related concern. The supervisor must discuss the concern with the employee, either in person or on the phone, and attempt to resolve it. If the concern is resolved to the satisfaction of the employee and the supervisor and if there is certainty that all safety, health, and environmental procedures are being followed, the work may continue. If the concern is not resolved to the satisfaction of the employee and/or supervisor, work is to remain stopped and the employee must call a Time Out. In order to call a Time Out, the employee must clearly state the words "Time Out." The employee does not need to have a Time Out card in their possession in order to call a Time Out. The Time Out applies only to the location and the work related to EH&S Concern; there are no system-wide or company-wide Time Outs.

4.2 RESOLVING A TIME OUT

Once a "Time Out" is called, the following process must be followed to resolve the concerns:

- The local EH&S representative is to be contacted to obtain assistance in resolving the concern. For support groups working in the field, their organization's contact person must also be notified. The local EH&S representative will act as the authority (expert) related to health, safety, and environmental rules, regulations, and procedures and either make a determination on the merits of the concern or contact an appropriate Subject Matter Expert (SME) from other areas of the company, including, but not limited to Engineering, Corporate EH&S, or Operations. In general, the number of people involved in the Time Out must be kept to the minimum required to resolve the issue. If the local EH&S representative understands all of the issues involved in the Time Out and all EH&S concerns are addressed, the local EH&S representative's determination is final and the Time Out is concluded.

- When the local EH&S representative determines that support is needed from a company SME, the SME will serve as the final arbiter of the Time Out. In this instance, once all EH&S concerns are addressed, the SME's decision is final and the Time Out is closed.

- In either case, whether the local EH&S representative or the SME is called, once the EH&S concern is evaluated and either it is determined that no safety, health or environmental issue exists or that the EH&S concern has been mitigated, the employees are expected to return to work.

- If the local EH&S representative cannot be reached, the job cannot continue until EH&S intervention is obtained. The EH&S Control Desk can be used either to directly resolve the issue or to reach another EH&S representative who can. Furthermore, any person listed on the ***Time Out card*** may be called to resolve the issue.

- Pending resolution of the Time Out, in emergency and other situations where extensive job and procedural reviews are necessary to resolve the concerns, an alternate work plan (where practical) approved by the responsible SME will be implemented to complete the job. Before proceeding with any work prior to the resolution of the "Time Out," the Operating Supervisor and the local EH&S representative must ensure that the work will be performed in full accord with EH&S procedures, that all rules and regulations will be followed, and that safety, health, and environmental risks will be minimized.

At the conclusion of all "Time Out" situations, it must be clearly stated to all those involved that the "Time Out" is over.

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When an EH&S concern has been raised, the employee and supervisor have resolved the issue themselves, and work has proceeded, the supervisor must notify the local EH&S representative if the concern was significant or could recur. In all Time Out situations, the EH&S representative will review the incident in a timely manner, determine if the Time Out has implications outside the organization/area where it occurred, and take appropriate steps to prevent its recurrence.

4.3 TIME OUT SAFETY TALK

To ensure that all employees are familiar with and understand the Time Out Program, a safety talk (SAF7240) must be provided.

4.4 TIME OUT CARD

Each organization must issue a Time Out card to all of its employees. An employee does not need to have a card in their possession to call a Time Out. All cards must be green and white, approximately 3-1/2 inches by 2 inches, and include the following information, at a minimum:

SIDE 1	SIDE 2
You Can Always Call a Time Out	Operating Area Location/Organization
If you have a safety, health, and/or environmental question and/or concern, we are available 24 hours a day for assistance.	No job proceeds until it is made safe and environmentally sound
Con Edison Picture of "Referee"	List names and telephone numbers of local EH&S staff or Call the Control Center at (xxx) xxx-xxxx, to reach a Safety or Environmental Specialist to assist you

5.0 DEFINITIONS

Time Out: Mechanism for any company employee to stop a job if he or she is unsure of how to proceed because of a safety, health or environmental concern. A Time Out can only be called if the concern cannot be resolved to the satisfaction of the employee and supervisor.

Time Out Card*:* A green and white card, approximately 3-1/2 inches by 2 inches, issued to all company employees for the purpose of calling a Time Out.

6.0 RESPONSIBILITIES

Employees**:** Employees are responsible for discussing EH&S concerns with their operating supervisors and calling a Time Out, when appropriate.

Local EH&S Representative: The local EH&S representative is the operating department's EH&S manager or one of his/her staff members. The local EH&S representative is responsible for:

- Determining the merits of EH&S issues identified by operating supervisors and resolving Time Outs, if possible.

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- Contacting the appropriate SME if additional guidance is needed.

Operating Supervisor: The operating supervisor is a supervisor in an operating department with that title or any other supervisor in another department. The operating supervisor is responsible for:

- Attempting to resolve EH&S concerns raised by employees.
- Contacting the local EH&S representative if the employee EH&S concern cannot be resolved.
- Assessing the significance of any EH&S concerns raised and notifying the local EH&S representative of concerns that are significant or are likely to recur.

Subject Matter Expert: The SME is an individual who has detailed, specific knowledge on a particular subject by the nature of his/her education, training and experience. The SME is responsible for:

- Providing assistance to the local EH&S representative in resolving Time Outs.
- Serving as final arbiter of Time Outs.
- Approving alternate work plans, where necessary

EH&S Control Desk If the local EH&S representative cannot be reached, the EH&S Control Desk is responsible for directly resolving the Time Out or reaching another EH&S representative who can.

7.0 REFERENCES

This CEHSP was developed by Con Edison as a matter of policy to ensure open communication about, and prompt resolution of EH&S issues arising on the job.

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REVISION HISTORY

Revision Date	Revision #	Summary of Change	Author
11/11/2014	5	Periodic review with the following minor changes: • Updated ERTs to EH&S Control Desk; • Added statement "Work cannot not start until both supervisor and employees agree that all EH&S concerns are resolved"; • Removed 'Corporate' from Corporate Environmental Health and Safety Procedures.	W.K Capune

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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

CORPORATE ENVIRONMENTAL, HEALTH AND SAFETY PROCEDURE

LAND USE

CEHSP E08.02 – Noise Construction and Utility Activities

Revision 7: 12/31/2014 Effective Date: 01/01/2015

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- ATTACHMENT 2 – UTILITY NOISE MITIGATION PLAN TEMPLATE
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- ATTACHMENT 4 – NOISE REGULATIONS FOR OPERATIONS UNDERTAKEN OUTSIDE OF PERMISSIBLE TIME

1.0 PURPOSE

IT IS THE POLICY OF CON EDISON TO COMPLY WITH STATE AND LOCAL REGULATIONS PERTAINING TO NOISE. The purpose of this procedure is to ensure that all company personnel perform appropriate actions to prevent ***unreasonable noise*** and comply with permissible noise limits.

2.0 APPLICABILITY

This Corporate Environmental, Health and Safety Procedure (CEHSP) applies to all Con Edison personnel and contractors, both on and off Con Edison facilities and at field locations, who attend to Con Edison equipment, facilities, or operations that create noise that could be considered unreasonable.

3.0 INTRODUCTION

New York City, and many local governments in the Company's service area have restrictions on the level of noise that may be produced. In general, these limits apply to two types of situations: ***facility operations***, and ***field operations***. In New York City, however, three distinct situations apply: ***facility operations***, construction activities and utility activities (street work). In addition, the restrictions vary by time of day. Con Edison has compiled tables summarizing the noise regulations applicable in the Company's service area. These tables can be found in Attachments *1* and *2*.

In addition, New York State regulations address noise from certain heavy duty trucks. These requirements are discussed in Section 4.4, New York State Noise Requirements.

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4.0 COMPLIANCE REQUIREMENTS

Equipment and operations associated with Con Edison facilities and services can produce noise. All equipment used by Con Edison should be in good working order, properly maintained, and properly used. Where possible, noisy equipment should not be located near ***noise-sensitive areas and/or sensitive receptors***, e.g., schools, hospitals, and churches.

Where a given operation could be accomplished using a variety of equipment, equipment with operating characteristics that produce less noise should be used. The facility or field manager is responsible for ensuring compliance with all federal, state and local noise regulations.

Qualified personnel should execute the procedures regarding noise measurements described in the following sections. Qualified personnel are defined as personnel from Con Edison Technical Service, who are trained to make noise measurements according to American National Standards Institute ***(ANSI)*** standards, and are operating under the advice from Con Edison's Environment, Health and Safety (EH&S) noise subject matter expert (SME). The person should be familiar with the make and type of equipment used in these measurements, calibration and should be experienced in general noise data collection procedures. The person should be able to identify ***impulsive*** and ***tonal noise.*** Measurements should be made using a Type 1 ***Sound Level Meter (SLM)*** / preamplifier/microphone combination.

4.1 FIELD OPERATIONS

Field operations include maintenance, installation, upgrade, and repair of Con Edison equipment. These types of operations include repair or installation of aboveground and belowground power transmission conduits (electrical, natural gas, steam), repair or installation of power transmission equipment, tree maintenance, on-site or off-site construction or demolition, and use of any safety equipment associated with these procedures.

Most field operations, other than operations undertaken outside of permissible times, can be thought of as construction activities. Construction activities additionally covered under this CEHSP include any activity (except tunneling) necessary or incidental to the erection, demolition, assembling, altering, installing, or equipping of buildings, public or private highways, roads, premises, parks, utility lines including such lines in already-constructed tunnels or other property, land clearing, grading, excavating and filling. Many communities have time restrictions on such activities, which must be adhered to. Additional requirements (discussed below), including the preparation of a Noise Mitigation Plan and additional sound-reducing devices, are required for work performed in New York City.

Unreasonable Noise

In addition to time restrictions, certain noise codes have specific regulations that must be followed regarding field activities. These regulations are summarized below.

- Construction devices – Prohibiting use of construction devices (e.g., air compressor, pile driver, bulldozer, crane, hoist) so as to create unreasonable noise.

- Containers and construction material – Prohibiting handling or transport of any container or any construction material in a public place so as to create unreasonable noise.

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- Exhausts - Except as otherwise provided in the New York City code, prohibiting discharge into the open air of the exhaust of any device, including but not limited to any steam engine, diesel engine, internal combustion engine or turbine engine, so as to create unreasonable noise.

- Power tools – Prohibiting use of power tools (e.g., nail guns, saws, vacuums, drills) so as to create unreasonable noise.

- Schools, hospital, courts – Prohibiting unnecessary noise through the use of any device on any street adjacent to any school or court while the same is in session, or adjacent to any hospital.

- Sensitive receptors – Prohibiting unnecessary noise through the use of any device within 50 feet of a school, house of worship, hospital, retirement community, open tract of serene land, park or recreation area, and psychiatric centers.

4.1.1 Utility Activities Within New York City

Negotiations with NYCDEP from 2005 to 2006 resulted in the partial exemption for utility-related construction, such as street activities, cable and pipe replacements, and new infrastructure installation.

Utility-related Construction must meet the following requirements:

- Each site where utility-related construction activities occur, or construction devices/tools are used, must have a filled-out Utility Noise Mitigation Plan on-site and posted. This requirement does not apply to safety devices utilized while performing routine maintenance task, such as ventilation blowers.

- OJT/Tailboard Talk training for all personnel who perform utility-related construction is required. Although our present CEHSP and GEIs satisfy this training requirement, additional training has been developed to assist with full compliance.

- The new code has restrictions on the types of tools that can be used, rather than list noise limits for each type as in the prior code requirements.

- Sensitive Receptors such as hospitals and schools adjacent to work locations should be communicated with prior to work starting when possible.

- For work longer than 3 days continuously in one location, postings and other communication must be sufficient to inform all residents within 200 feet of schedule.

Utility Noise Mitigation Plans

A utility noise mitigation plan template is included as *Attachment 3*. The utility noise mitigation plan should be filled out by the job supervisor or field foreman prior to the start of construction activities – only devices deemed in compliance with NYCDEP regulations shall be utilized. If there are any deviations from the approved items, the ConEd noise SME must be consulted prior to the start of work activities.

Elements of the utility noise mitigation plan include the following requirements:

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- Self-certification that tools/equipment maintained so they operate at normal manufacturer's operating specifications.
- Tools/equipment must be equipped with appropriate manufacturer's noise reduction device.
- Specialized vehicles require use of additional noise mitigation measures.
- Use of noise-insulating fabric for portable pumps, compressors, generators, etc.
- Quieter equipment shall be used when available or when required by the NYCDEP. Prohibit unnecessary engine idling.
- Properly install and secure steel traffic plates – must re-set and secure within 24 hours of a call from the DEP to the utility.
- Notify all residents within 200 feet of construction area when work is scheduled to be longer than 3 days.
- Notification shall include information on schedules/work locations.
- Respond to all noise complaints/official DEP notice on same day. If after hours, respond next day.
- Phase in vehicles with quieter backup alarms – already being done at ConEd.
- Establish / implement formal noise mitigation training program.
- Includes field supervisory personnel and subcontract supervisors.
- Supervisors shall field-train all field workers.
- Minimize noise impact of sensitive receptors.
- Schools, hospitals, places of worship, etc.
- Required to work with facility owner/operator.
- Perimeter ***noise barriers*** must be used in accordance with 28-101(g) of NYC Chapter 28.
- If project is non-emergency, long-term (greater than 15 days) where there is a dedicated lane, must comply with 28-100 through 28-104.

Permissible Hours of Utility Activities

Regulations concerning utility activities within New York City are listed below. All utility-related construction activities which fall outside these hours require after-hours authorization from the NYCDEP, the NYCDOB, or the NYCDOT. Additional noise mitigation methods may also be required if the NYCDEP so indicates for after-hours work.

Hours of Work are to be in accordance with NYC DOT permit stipulations and/or NYC DOT Highway Rules, generally 7 AM through 10 PM weekdays for utility activities. Please note the

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extension to 10 p.m., also applies to Con Edison's contractors. Additional mitigation techniques for receptors within 200 feet may be required by the DEP for hours between 10 PM and 7 AM during weekdays and 7PM through 7AM during weekends.

4.1.2 Construction Operations Within New York City

Construction Activities

General construction and demolition will have to meet the Utility requirements in addition to the following:

- More complex Mitigation Plans (must be completed as part of planning the work and prepared with the assistance of the noise SME)
- Specific mitigation requirements for a variety of tool/equipment types
- Certain activities may require enclosures/barriers to reduce noise
- Certain projects with perimeter construction fences shall be required to have noise attenuating material added to the fencing
- Quieter or "smart" back-up alarms are required.

Construction Noise Mitigation Plans

All construction work performed within New York City must be performed in accordance with NYC Administrative Code, Chapter 28. For all construction activities, a Noise Mitigation Plan (*Attachment 3*) must be completed. Only NYCDEP-approved devices or equivalent may be used on-site. NYCDEP must approve the plan, however would pre-approve generic plans with checklists for certain repetitive work. Consult with the Corporate Environmental Health and Safety Department for assistance.

The Mitigation Plan must be written and clearly posted at the job site. Elements of the construction and demolition noise mitigation plan include the following requirements:

- More complex Mitigation Plans (must be completed as part of planning the work and prepared with the assistance of the noise SME)
- Residents within 200 feet of a construction site shall be given notice when work is scheduled for longer than 3 days. Conspicuous posting of such information, or where necessary notification of building managers/owners, shall satisfy this requirement.
- The owner/operator of sensitive receptors (e.g. schools, hospitals and places of worship), adjacent to this site, shall be contacted when practicable to coordinate work to minimize impact on the property.
- Self-certification that tools are maintained so that they operate at normal manufacturer's operating specifications. The NYCDEP will refer to an outside source to determine if your equipment "may be the source of a noise complaint".

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- Use of mufflers/noise mitigation devices on equipment and construction vehicles to meet requirements. *(Note: If equipment continues to exceed level as specified in the Appendix of Rules, a five day cure periods is allowed to perform maintenance, replace equipment and file an Alternative Noise Mitigation Plan.)*

- Mitigation of noise from internal combustion engines.

- Prevention of vehicle idling and use of quieter backup alarms.

- Use of noise barriers if site is within 75 feet of a residential receptor or 200 feet of ANY receptor.

- By January 1, 2008, quieter or "smart" back-up alarms will be required.

- Construction projects that are not regard as "utility work" (e.g. building construction or demolition, major renovation, or any installations) that are not completed within **15 calendar days**, will not fall under the same exemption as work on the system.

- Construction material shall not be handled in such a way as to create unreasonable noise.

Permissible Hours of Construction

Regulations concerning construction activities within New York City are listed below. All construction activities which fall outside these hours require after-hours authorization from the NYCDEP, the NYCDOB, or the NYCDOT. Additional noise mitigation methods (such as noise barriers) are required if work is performed outside these hours.

Hours of Work are to be in accordance with NYC DOT Permit Stipulations and/or NYC DOT Highway Rules, generally 7 AM through 6 PM weekdays for construction activities. Additional mitigation techniques for receptors within 200 feet may be required by the DEP for hours between 7 PM and 7 AM during weekdays and during weekends. There is an exception for occupied one or two family dwellings, convents or rectories between 10 a.m. and 4 p.m. on wither Saturday or Sunday (Note: Must be a minimum of 300 feet from house of worship).

4.1.3 Operations Outside New York City

Permissible Hours of Construction

Regulations concerning normal field operations are listed in the table in *Attachment 1*, Normal Field Operation Regulations. Except where indicated, these are simply day and time restrictions imposed by the various communities. In many cases, providing that field operations do not occur outside these day and time restrictions, the field operations will be in compliance with the local noise codes.

Specific Requirements

Some noise codes require special muffler requirements on devices such as engines, air compressors, and pavement breakers. In addition, certain communities impose noise limits on construction activities. If there are specific noise levels stated in the Special Requirements column of the table in *Attachment 1*, noise monitoring may be required. Careful attention should be given to the equipment and vehicles used in field operations utilizing impact equipment that

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emit high impulsive noise levels such as pile drivers, pavement breakers, and steam shovels. [6] P

The following procedures apply only to field operations that require noise monitoring as indicated in *Attachment* 1 and may be skipped if no special requirements are listed in Attachment 1.

4.2 OPERATIONS UNDERTAKEN OUTSIDE OF PERMISSIBLE TIMES

In some jurisdictions, noise from operations undertaken outside of permissible times as a result of dealing with emergency situations is exempt from local noise restrictions. However, some jurisdictions impose time limits on such operations, may require a variance for such operations, and/or may require repair operations to commence within a certain time limit of the ***emergency event***. NYC may issue variance from noise standards for the construction activity. Variance may be granted for the initial period of three days and then renewed. The variance must be clearly posted. If work must begin without variance, an application must be submitted within ***12*** **hours** of commencement.

4.2.1 Utility Activities Within New York City

For utility work conducted outside of 7AM – 10 PM on weekdays, additional authorization must be obtained from NYCDOB, NYCDOT or NYCDEP to work outside those hours. From 6PM – 10PM weekdays, any required daytime noise mitigation controls must be utilized. From 10PM – 7AM weekdays and 7PM – 7AM weekends, additional noise mitigation controls may be required by the DEP if there are any receptors within 200 feet. This will be determined on a case-by-case basis.

4.2.2 Construction Operations Within New York City

In New York City, in the case of urgent necessity in the interest of public safety, the NYCDEP is authorized under the New York City Noise Code to issue a variance from the provisions of the Construction Activity Noise Code provisions for any such construction activity. Such a variance may be granted for an initial period of up to 3 days, and may be renewed for periods of 3 days or less while such urgent necessity continues. The variance must be clearly marked on the license or permit, which must be prominently posted at the job site.

4.2.3 Operations Outside New York City

Refer to the Noise Regulations for Operations Undertaken Outside of Permissible Times (*Attachment 4*), for any required variances, time limitations, and exemptions regarding operations undertaken outside of permissible times. [8] R/P

4.3 NOISE MONITORING METHODOLOGY

The noise measuring device should be set to use the descriptor specified in the local noise code, as indicated in Special Requirements column of the *Attachment* 1. Noise that is considered impulsive must be noted and used in the evaluation of the maximum allowable levels given in *Attachment 3*, the Normal Field Operation Regulations Table. Measurements should be made in such a way as to exclude ***extraneous noises***. Measurements should not be made while ***adverse meteorological conditions*** are occurring in the study area.

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Repeat this procedure for each boundary at the property line. Compare the measured property line levels with the maximum allowable levels for the corresponding area in *Attachment* 1. If measured noise levels are below the maximum allowable noise levels for the corresponding types of noise, as indicated in the Special Requirements column of (*Attachment* 1), then noise levels from the Normal Field Operations meet the requirements of the local noise code. If measured levels exceed the maximum allowable levels, the noise from l field operations exceeds the local noise codes. [7]

New York City no longer requires noise measurements for normal field locations. Use ***A-weighted*** measurements. All measurements must be taken by "qualified personnel" only.

5.0 DEFINITIONS

Adverse Meteorological Conditions: Rain, snowfall, snow-covered ground, wet ground, gusty winds, and high winds. Measurements should not be made during these types of conditions.

ANSI: Acronym for "American National Standards Institute".

A-Weighted: Measurement that assigns each frequency a "weight" through the use of a filter network that is related to the sensitivity of the ear at that frequency. The level of the filtered signal is displayed as the A-weighted level. The A-weighted frequency characteristic was originally designed to mirror the 40-phon equal-loudness-level contour of the 1933 Fletcher-Munson data.

Emergency Event: The need for immediate repair of Con Edison equipment associated with Con Edison operations due to situations that are causing or are likely to cause service interruptions, or situations that present an imminent danger to the public. Examples include repair or installation of aboveground and belowground power transmission conduits (e.g., electrical, natural gas, steam), immediate repair or installation of power transmission equipment, and immediate tree maintenance.

Extraneous Noises: Noises that are not associated with Con Edison operations. Extraneous noises include, but are not limited to, passing automobiles or trucks, railway activity, nearby aircraft, nearby construction or demolition, natural sounds, and other nearby noises not associated with Con Edison operations.

Facility Operations: Operational procedures of Con Edison facilities which are essential for normal Con Edison operations. Examples include power generation, compressors, turbines, pipes and valves, bulk material transport, deliveries, fans, and any on-site maintenance or modifications.

Field Operations: Maintenance, installation, upgrade, and repair of Con Edison equipment associated with Con Edison operations. Examples include repair or installation of aboveground and belowground power transmission conduits (e.g., electrical, natural gas, steam), repair or installation of power transmission equipment, tree maintenance, and on-site construction or demolition.

Impulsive Noise: A single short burst or a series of short bursts of sound pressure. The pressure-time history of a single burst includes a rise to peak pressure, followed by a decay of the pressure envelope. The pressure-time history of a single burst includes a 6 dB, or greater, rise to peak pressure, followed by a decay of the pressure envelope, when the rise to peak

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pressure occurs in 1 second or less. For noise containing a series of short bursts of sound pressure, the noise will be considered impulsive if each impulse in the series is separated in time by less than 1 second. Examples include thunder, noise as a result of pile-driving, steam-shoveling, etc.

Noise Barrier: A structure used for the purpose of placing near a noise source to reduce the noise level measurable at a receptor location.

Noise-Sensitive Area (a.k.a Sensitive Receptor): Tracts of land where serenity and quiet are extraordinarily important and serve an important public need, and where the preservation of these qualities is essential for the area to serve its intended purpose. Such areas could include amphitheaters, particular parks, or portions of parks or open spaces dedicated or recognized by appropriate local officials for activities requiring special qualities of serenity and quiet. Examples are grounds for ambulatory hospital patients and patients and residents of sanitariums and old-age homes.

Octave Band: A filter with a single transmission band or passband with relatively low attenuation extending from a lower band-edge frequency greater than zero to a finite upper edge frequency which is twice the lower band-edge frequency. The nominal midband frequency, for a set of contiguous octave bandpass filters, is one of a series that includes 16, 31.5, 63, 125, 250, 500, 1000, 2000, 4000, and 8000 hertz, extended by successive multiplication or division by 10.

Qualified Personnel: Personnel from Con Edison Technical Service, who are trained in calibrated noise measurements and calibrated ***octave band*** measurements, according to ANSI standards, and are operating under the advice from Con Edison EH&S. Qualified personnel should be familiar with the make and type of equipment used in the measurements, and experienced in general noise data collection procedures. Qualified personnel should be able to identify impulsive and periodic noise.

Receptor: Real property, including but not limited to buildings, grounds offices and dwelling units, from which sound levels from sound sources outside such property may be measured.

Sound Level Meter (SLM): Device used to measure sound pressure level with a standardized frequency weighting and indicated exponential time weighting for measurements of sound level, or without time weighting for measurement of time-average sound pressure level or sound exposure level.

Tonal Noise: For the purposes of this document, noise containing single-frequency tones, when the sound pressure of any single-frequency tone in any octave band exceeds the non-tonal masking noise in the corresponding octave band by 6-dB or more. This corresponds, in general, to a tone being prominent when it is more than 10 dB above the threshold of audibility. Examples of tonal noise would include transformer hum, idling engine noise, and constant-rpm engine noise.

Unreasonable Noise: Any excessive or unusually loud sound that annoys, disturbs, injures, or endangers the comfort, repose, health, peace, or safety of a person or that causes injury to plant or animal life, or damage to property or business.

6.0 REFERENCES

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NOTE: Con Edison is subject to numerous local noise regulations. For guidance, tables have been developed summarizing these local noise regulations applicable in Con Edison's service area. These tables include:

- Attachment 1, Field Operation Regulations
- Attachment 4, Noise Regulations for Operations Undertaken Outside of Permissible Time

For purposes of the References section, the annotations are limited to citations to New York City and New York State regulations. Readers are referred to the Tables for local requirements.

Note: Regulations are subject to change without notice, especially local noise regulations. For compliance with local regulations, please confirm with Law as needed. References are forthcoming.

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REVISION HISTORY

Revision Date	Revision #	Summary of Change	Author
12/310/2014	7	Periodic review completed with one minor note added to the reference section. "*Regulations are subject to change without notice, especially local noise regulations. For compliance with local regulations, please confirm with Law as needed*"	S. Mahoney

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ATTACHMENT 1
FIELD OPERATION REGULATIONS

CITY, TOWN or VILLAGE	ALLOWABLE NORMAL OPERATION DAYS/HOURS	SPECIAL REQUIREMENTS
Airmont	Mon-Sat 8:00am-10:00pm	L_{10} (1) levels must not exceed 60dB(A) at construction site boundary
Beacon	7:00am-11:00pm	
Briarcliff Manor	Mon-Sat 8:00am-7:00pm	Blasting and Rock Drilling permitted only Mon-Fri 9:00am-5:00pm
Bronxville	Mon-Fri 8:00am-6:00pm	
Buchanan (Village of)	8:00am-7:00pm	
Chestnut Ridge (Village of)	Mon-Sat 8:00am-7:00pm	L_{10} (1) levels must not exceed 60dB(A) at construction site boundary
Clinton	7:00am-8:00pm	
Croton on Hudson	Mon-Sat 8:00am-10:00pm Sundays 10:00am-8:00pm	
Dover	7:00am-9:00pm	
Greenburg	Mon-Fri 7:00am-8:00pm Sat 9:00am-6:00pm; no work on Sunday	
Hyde Park	6:00am-11:00pm	
LaGrange (Town of)	6:30am-9:00pm	
Larchmont	Mon-Fri 8:00am-7:00pm Sat 9:00am-6:00pm Sun 10:00am-5:00pm	L_{10} (1) levels must not exceed 70dB(A) at a distance of 40 feet
Lewisboro	Mon-Sat 8:00am-7:00pm	
Mamaroneck	Mon-Fri 8:00am-8:00pm Sat 9:00am-6:00pm Sun 9:00am-5:00pm	Pile Drivers and Steam Shovels permitted only Mon-Fri 8:00am-6:00pm No noise permitted beyond property border
Millbrook (Village of)	7:00am-10:00pm	Hours of restriction only apply when within 500 feet of residential zone.
Montebello	Mon-Sat 8:00am-10:00pm	L_{10} (1) levels must not exceed 60dB(A) at construction site boundary
Mount Pleasant	8:00am-6:00pm	• L_{10} (1) levels must not exceed 70dB(A) at a distance of 400 feet when bordering residential zone from 8:00am-6:00pm. • L_{10} (1) levels must not exceed 55dB(A) at a distance of 400 feet when bordering residential zone from 6:00pm-8:00am. • L_{10} (1) levels must not exceed 75dB(A) at a distance of 400 feet bordering nonresidential zone during business hours. • L_{10} (1) levels must not exceed 80dB(A) at a distance of 400 feet bordering nonresidential zone during nonbusiness hours.
Mount Vernon	Mon-Fri 7:00am-6:00pm No weekends permitted unless have current permit from the Committee of Buildings	• L_{10} (1) levels must not exceed 70dB(A) at 400 feet when bordering residential zone from 8:00am-8:00pm. • L_{10} (1) levels must not exceed 55dB(A) at 400 feet when bordering residential zone from 8:00pm-8:00am. • L_{10} (1) levels must not exceed 75dB(A) at 400 feet when bordering commercial zone during business hours. • L_{10} (1) levels must not exceed 75dB(A) at 400 feet when bordering commercial zone during non-business hours. • Sound levels must not exceed 80dB(A) at the site boundary when bordering a manufacturing zone. • Sound levels must not exceed 55dB(A) at site boundary when near any noise-sensitive areas.

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ATTACHMENT 1 (CONTINUED)
FIELD OPERATION REGULATIONS

CITY, TOWN or VILLAGE	ALLOWABLE NORMAL OPERATION DAYS/HOURS	SPECIAL REQUIREMENTS
New Castle	Mon-Fri 7:30am-8:00pm Sat-Sun 10:00am-5:00pm	No blasting on Saturday, Sunday or holidays
New Rochelle (Residential)	Mon – Fri 8:00am-10:00pm Sat-Sun 10:00am-5:00pm 10:00pm-8:00am	• L_{10} (1) levels must not exceed 70dB(A) at a distance of 400 feet in residential areas. • Sound levels must not exceed 55dB near any sensitive receptor. • Compressors require mufflers with 20dBA or more Insertion Loss. • Pavement Breakers manufactured before 12/31/74 require mufflers with 5dBA or more Insertion Loss. • For residential areas, no noise must be audible beyond property perimeter.
New Rochelle (Commercial)		L_{10} (1) levels must not exceed 75dB(A) at a distance of 400 feet during normal business hours L_{10} (1) levels must not exceed 80dB(A) at a distance of 400 feet at all other times In manufacturing areas, during a 24hour period, L_{10} (1) levels must not exceed 80 dB(A) when measured at construction site boundary
New York City	Mon-Fri 7:00am-6:00pm	
North Castle	8:00am-6:00pm(or sundown) Sundown – 8:00am	• Sound levels must not exceed 70dB(A) at a distance of 400 feet when bordering residential zone. • Sound levels must not exceed 75dB(A) at a distance of 400 feet when bordering commercial zone. • Air Compressors require mufflers with 20 dBA or more Insertion Loss. • Paving Breakers manufactured before 12/31/74 require mufflers with 5 dBA or more Insertion Loss. • Sound levels must not exceed 55dB(A) in residential areas or 65dB(A) in commercial / manufacturing areas
North Hempsted (Village of)	Mon-Fri 8:00am-9:00pm Sat-Sun 10:00am-6:00pm	
Ossining (Town of)	Mon-Fri 8:00am-8:00pm Saturday 9:00am-5:00pm	
Ossining (Village of)	Mon-Fri 7:30am-8:00pm Saturday 9:00am-5:00pm	
Pawling (Village of)	Mon-Sat 7:00am-8:00pm	L_{10} (1) levels must not exceed 80dB(A) at construction site boundary. IMPULSIVE Noise must not exceed 130dB(A) at property line.
Peekskill	Mon-Fri 7:30am-8:00pm Saturday 9:00am-5:00pm	No holiday work permitted
Piermont	7:00am-5:00pm	
Poughkeepsie (City)	6:30am-9:00pm	Other hours for construction (emergency work) only with a permit issued by the Building Inspector
Poughkeepsie (Town)	7:00am-10:00pm	
Ramapo	Mon-Sat 8:00am-10:00pm	L_{10} (1) levels must not exceed 60dB(A) at construction site boundary

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CITY, TOWN or VILLAGE	ALLOWABLE NORMAL OPERATION DAYS/HOURS	SPECIAL REQUIREMENTS
Sleepy Hollow (Village of)	Mon-Fri 8:00am-9:00pm Saturday 9:00am-9:00pm	
Sloatsburg	Mon-Fri 7:00am-7:00pm	
Suffern	Mon-Fri 7:00am-8:00pm	
Unionvale	7:00am-8:00pm	
West Haverstraw	Mon-Fri 6:00am-9:00pm Saturday 8:00am-22:00pm	
White Plains	7:00am-7:00pm	
Yonkers	Mon-Fri 7:00am-9:00pm	

$L_{eq}(1)$: Time-average sound energy level during a time period of 1 hour. For the purposes of this document, all $L_{eq}(1)$ levels are expressed in dB(A).

L_{10}: The sound level exceeded for 10% of the specified time period.
L_{90}: The sound level exceeded for 90% of the specified time period.

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ATTACHMENT 2

Effective July 1, 2007, the NYCDEP Noise Code is updated to include additional construction requirements. A section of the new code specifically exempts utility-related streetwork and similar utility maintenance work from many of the requirements, but Con Edison and its contractors and subcontractors will still have several new requirements (NOTE: vendors should use same form as Con Edison but enter their name and contact number and cross out ours). Existing requirements will likely receive new emphasis. A posted Noise Mitigation Plan will be required on construction sites.

A compilation of construction noise requirements follows.

1) Most of our streetwork will be construction work, with the exception of routine manhole entries and other activities that do not involve construction tools or equipment. **Routine manhole work where the only devices utilized are a blower for atmospheric ventilation and/or an electric water pump inside the structure would not be considered construction work.**

2) The most current version of the attached form "Utility Noise Mitigation Plan" must be filled out and posted with the permit or elsewhere at the site, and presented to an inspector during a visit.
   NOTE: Post as soon as possible for emergencies.

3) Job briefing and/or tailboard talks should include this page and the Mitigation Plan.

4) The form includes lines for company name, contact number, and work schedule. Copies of the form have had contact information filled out already, and the schedule is usually on the permit. Emergencies and short-duration work will not require a schedule.

5) The form needs to indicate whether certain equipment will be used, and for jackhammers what type we are using. Check off or circle anything to be used for the job. "Backup" is not applicable at this time.

6) Portable pumps, compressors, and generators must be placed to minimize noise on nearby residents. Watch exhaust direction, as noise is louder in the direction of the exhaust.

7) As is currently required, all equipment/devices must have the manufacturer mufflers and other noise reduction parts in place, and be in good working order.

8) If NYCDEP concludes in response to a noise complaint that **properly used and maintained** equipment /devices are too loud, we will have 5 days to provide quieter models, alter our work, or file a variance.

9) When work is adjacent to **sensitive receptors**, such as schools, places of worship, retirement housing, or hospitals, attempt to contact and coordinate with the facility to minimize noise impact on activities.

10) When work extends past 3 days in the same location, the schedule must be posted conspicuously to inform nearby residents within 200 feet, or contact building owner(s).

11) Report all contact with NYCDEP noise enforcement to your supervisor or EH&S immediately.

12) As is currently required, minimize vehicle idling and ensure road plates are secure.

Utility Noise Mitigation Plan

v.2 7/31/12

I. Contact Information

Name of Responsible Party as defined in 15RCNY §28-109(a) (Utility and/or Contractor and/or Sub):

_____ Consolidated Edison _-or-_____

Contact Phone Number_ _1-800-75CONED_____-or-_____

Work Schedule_____

DOT Permit (if needed)_____

Unless work duration is undetermined or anticipated to be only one shift, then fill in work in I above. For variances from permit or long-term emergencies, fill in work location/schedule above if known.

Permits need not be posted for emergency response and for routine manhole work in accordance with NYC DOT and NYC DEP rules and regulations. Emergency work may commence immediately and within 3 days, a permit and copy of this Plan shall be posted.

II. Site-Specific Information

Hours of Work are to be in accordance with NYC DOT Permit Stipulations and/or NYC DOT Highway Rules. Additional mitigation techniques for receptors within 200 feet may be required by the DEP for hours between 10 PM and 7 AM during weekdays and 7PM and 7 AM during weekends.

Residents within 200 feet of a construction site shall be given notice when work is scheduled for longer than 3 days. Conspicuous posting of such information, or where necessary notification of building managers/owners, shall satisfy this requirement.

The owner/operator of **sensitive receptors**, adjacent to this site, shall be contacted when practicable to coordinate work to minimize impact on the property.

Vehicle **engine idling** shall be prevented in accordance with NYC Ad. Code §24-163.

All **street plates** at this site, shall be installed and properly secured in accordance with 34RCNY §2-11(10) (e)

All corrective actions, at this site, shall be taken within **24 hours** of notice by the DEP or its agent.

All rules of 28RCNY §106 apply.

III. Construction Devices

This Plan certifies that all equipment indicated in this Mitigation Plan is maintained to operate in accordance with the manufacturer's operating specifications and has been equipped with appropriate manufacturer's noise reducing devices.

Check applicable boxes below:

When the specific devices listed in next column are utilized, the use of barriers is not required unless the Dept. of Environmental Protection receives complaints. NOTE: All devices must have manufacturer's noise reduction device installed and properly functioning. NOTE: Small electric sump pumps inside structures and blowers for atmospheric ventilation are safety devices, not construction devices.

☐ **JACKHAMMERS (including chisel hammer attached to a vehicle like a backhoe)**
- ☐ Copco model TEX P90S with elongated muffler casing or bellows > 15 inches in length (or equivalent)
- ☐ **Chicago Pneumatic CP1240 with a model F-814004 muffler (or equivalent)**
- ☐ Other _____

☐ BACKHOES _____method of mitigating device

☐ GENERATORS (Noise mitigation required – noise insulating fabric or other such techniques)

☐ COMPRESSORS (Noise mitigation required – noise insulating fabric or other such techniques)

☐ PUMPS (Noise mitigation required – noise insulating fabric or other such techniques)

☐ OTHER_____

IV. Specialized Equipment: Circle applicable device

The vehicles listed below and other vehicles with internal combustion motors shall require noise mitigation measures as specified by the DEP, such as the use of noise-insulating material or other such techniques that do not interfere with engine operation. The location of receptors should be considered in the placement and use to minimize noise impact.

Rodding or Cable Truck **Flush / Vac Truck**

Pavement Core Drilling Truck **Vacuum Excavator Truck**

Indicate method(s) of mitigating any of the above devices:_____

☐ BACKUP ALARMS (Required January 2008)
- ☐ Preco Model 45AA (or equivalent)
- ☐ Ecco Model 820 (or equivalent)
- ☐ Preco Model 1048 (or equivalent)
- ☐ Ecco Model SA907 (or equivalent)
- ☐ Grote Model 73100 (or equivalent)
- ☐ BBS-TEK Brigade Model BBS-92 (or equivalent)

Version 2, July 3, 2007

You must use the latest version available. Please check the website: http://www.nyc.gov/html/dep/html/airnoise.html

Utility Noise Mitigation Plan

v.2 7/31/12

I. Contact Information

Name of Responsible Party as defined in 15RCNY §28-109(a)
(Utility and/or Contractor and/or Sub):

_____

Contact Phone Number_____
Work Schedule_____
DOT Permit (if needed)_____

Unless work duration is undetermined or anticipated to be only one shift, then fill in work in I above. For variances from permit or long-term emergencies, fill in work location/schedule above if known.

Permits need not be posted for emergency response and for routine manhole work in accordance with NYC DOT and NYC DEP rules and regulations. Emergency work may commence immediately and within 3 days, a permit and copy of this Plan shall be posted.

II. Site-Specific Information

Hours of Work are to be in accordance with NYC DOT Permit Stipulations and/or NYC DOT Highway Rules. Additional mitigation techniques for receptors within 200 feet may be required by the DEP for hours between 10 PM and 7 AM during weekdays and 7PM and 7 AM during weekends.

Residents within 200 feet of a construction site shall be given notice when work is scheduled for longer than 3 days. Conspicuous posting of such information, or where necessary notification of building managers/owners, shall satisfy this requirement.

The owner/operator of **sensitive receptors**, adjacent to this site, shall be contacted when practicable to coordinate work to minimize impact on the property.

Vehicle **engine idling** shall be prevented in accordance with NYC Ad. Code §24-163.

All **street plates** at this site, shall be installed and properly secured in accordance with 34RCNY §2-11(10) (e)

All corrective actions, at this site, shall be taken within **24 hours** of notice by the DEP or its agent.

All rules of 28RCNY §106 apply.

III. Construction Devices

This Plan certifies that all equipment indicated in this Mitigation Plan is maintained to operate in accordance with the manufacturer's operating specifications and has been equipped with appropriate manufacturer's noise reducing devices.

Check applicable boxes below:
When the specific devices listed in next column are utilized, the use of barriers is not required unless the Dept. of Environmental Protection receives complaints. NOTE: All devices must have manufacturer's noise reduction device installed and properly functioning. NOTE: Small electric sump pumps inside structures and blowers for atmospheric ventilation are safety devices, not construction devices.

☐ **JACKHAMMERS (including chisel hammer attached to a vehicle like a backhoe)**
- ☐ Copco model TEX P90S with elongated muffler casing or bellows > 15 inches in length (or equivalent)
- ☐ **Chicago Pneumatic CP1240 with a model F-814004 muffler (or equivalent)**
- ☐ Other _____

☐ BACKHOES _____ method of mitigating device
☐ GENERATORS (Noise mitigation required – noise insulating fabric or other such techniques)
☐ COMPRESSORS (Noise mitigation required – noise insulating fabric or other such techniques)
☐ PUMPS (Noise mitigation required – noise insulating fabric or other such techniques)
☐ OTHER _____

IV. Specialized Equipment: Circle applicable device

The vehicles listed below and other vehicles with internal combustion motors shall require noise mitigation measures as specified by the DEP, such as the use of noise-insulating material or other such techniques that do not interfere with engine operation. The location of receptors should be considered in the placement and use to minimize noise impact.

Rodding or Cable Truck **Flush / Vac Truck**

Pavement Core Drilling Truck **Vacuum Excavator Truck**

Indicate method(s) of mitigating any of the above devices:_____

☐ BACKUP ALARMS (Required January 2008)
- ☐ Preco Model 45AA (or equivalent)
- ☐ Ecco Model 820 (or equivalent)
- ☐ Preco Model 1048 (or equivalent)
- ☐ Ecco Model SA907 (or equivalent)
- ☐ Grote Model 73100 (or equivalent)
- ☐ BBS-TEK Brigade Model BBS-92 (or equivalent)

Version 2, July 3, 2007
You must use the latest version available. Please check the website: http://www.nyc.gov/html/dep/html/airnoise.html

ATTACHMENT 3
CONSTRUCTION MITGATION PLAN

The most recent form may be downloaded at

http://www.nyc.gov/html/dep/html/noise/index.shtml

ATTACHMENT 4
NOISE REGULATIONS FOR OPERATIONS UNDERTAKEN OUTSIDE OF PERMISSIBLE TIME

CITY, TOWN, or VILLAGE	Regulations	DETAILS
Bedford	EXEMPT	
Airmont (Village of)	EXEMPT	
Chestnut Ridge (Village of)	EXEMPT	
Clinton (Town of)	EXEMPT WITH APPROVAL	Granted by Zoning Enforcement Officer and the Zoning Board of Appeals
Croton-on-Hudson	EXEMPT	
Dover (Town of)	ONLY FOR TEMPORARY CONDITIONS	
Fishkill (Town of)	BY TEMPORARY PERMIT	Granted by Town Clerk upon recommendation of Zoning Enforcement Officer
Hastings-on-Hudson	EXEMPT	
Hyde Park (Town of)	EXEMPT	
LaGrange (Town of)	EXEMPT	
Mamaroneck (Town of)	ONLY WITH EXCEPTION	Issued by Town of Mamaroneck
Mamaroneck (Village of)	SPECIAL PERMIT REQUIRED	Issued by Building Inspector
Millbrook (Village of)	EXEMPT	
Montebello (Village of)	EXEMPT	
Mount Pleasant	SPECIAL PERMIT REQUIRED	Issued by Building Inspector
Mount Vernon	SPECIAL PERMIT REQUIRED	Issued by Commissioner of Buildings
New Castle	VARIANCE REQUIRED	Issued by Zoning Board of Standards and Appeals
New Hempstead (Village of)	EXEMPT	
New Rochelle	PERMIT FOR RELIEF REQUIRED	Issued by City Clerk
New York City	VARIANCE REQUIRED	Within 12 hours, Variance Required. Variance Valid for 3 days, and must be renewed as required. Mitigation Plan required.
North Castle	SPECIAL PERMIT REQUIRED	Issued by Building Inspector
Nyack (Village of)	EXEMPT	
Pawling (Village of)	EXEMPT	
Piermont (Village of)	VARIANCE REQUIRED	Issued by Village Board
Poughkeepsie (City)	SPECIAL PERMIT REQUIRED	Issued by Building Inspector, valid for up to 3 days. May be renewed for an additional 3 days.
Poughkeepsie (Town of)	EXEMPT	
Ramapo (Town of)	EXEMPT	
Scarsdale	EXEMPT	
Sleepy Hollow	EXEMPT	
Spring Valley (Village of)	SPECIAL	Exempt for 24 hours
Suffern (Village of)	EXEMPT	
Wappingers Falls (Village of)	EXEMPT	
West Haverstraw (Village of)	SPECIAL PERMIT REQUIRED	Issued by Building Inspector for periods of 3 days. May be renewed.
Yonkers	EXEMPT	

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
CORPORATE ENVIRONMENTAL, HEALTH AND SAFETY PROCEDURE

CEHSP S05.03 – Personal Protective Equipment: Protective Clothing
Revision 10: 08/27/2013 Effective Date: 09/30/2013

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1.0 PURPOSE

IT IS THE POLICY OF CON EDISON TO COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO THE SELECTION OF PROTECTIVE CLOTHING FOR THE BODY (ARMS, LEGS, AND TORSO). The purpose of this procedure is to ensure that appropriate ***personal protective equipment (PPE)*** is selected and worn to protect Con Edison workers, contractors, and visitors at Con Edison facilities and work sites from chemical and physical hazards to the ***body***.

2.0 APPLICABILITY

This Corporate Environmental, Health and Safety Procedure (CEHSP) applies to any Con Edison activity that presents work hazards to the body that require the use of PPE.

3.0 INTRODUCTION

Many hazards can threaten the body, including heat, splashes from hot metals during welding, splashes from hazardous liquids (acids, bases, solvents), impacts, cuts, electrical hazards (arc, flame), and radiation. Based on the results of ***hazard assessments*** performed in each facility in accordance with CEHSP S 05.01, *Hazard Assessment and Personal Protective Equipment*, protective clothing must be identified that provides the correct protection.

Where hazards are determined to be present that can cause injury or impairment in the function of any part of the body through absorption, inhalation, or physical contact, it is necessary to select PPE to adequately protect affected employees. A variety of protective clothing is available to protect against these hazards, including vests, jackets, aprons, coveralls, and full-body suits. In

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addition, the OSHA Electrical Maintenance Standard, 29 Code of Federal Regulations (CFR) 1910.269, prohibits generation, transmission, and distribution employees who may be exposed to flame or electric arc from wearing clothing that may increase the severity of an injury.

This procedure presents requirements for selecting and maintaining protective clothing to control work hazards to the body, specifically the arms, legs, and torso.

4.0 COMPLIANCE REQUIREMENTS

4.1 HAZARD ASSESSMENT AND GENERAL GUIDELINES FOR SELECTION AND USE OF PPE

Con Edison must perform a hazard assessment to determine the ***proper*** personal protective equipment required for each job task performed by employees. The hazards, physical requirements of the operation, resistance of clothing to work-related destructive factors (chemicals, abrasion, etc.), and worker comfort must be considered when selecting required clothing. The PPE hazard assessment is performed to ensure that PPE is correctly identified and that implementation is consistent with workplace conditions. The assessment must be reviewed when new PPE or new chemicals are introduced into the workplace or when operations change. A ***hazard assessment certification*** must be maintained by personnel and the facility to provide a record of workplace reviews. [1] R

The following paragraphs identify guidelines for the selection and use of protective clothing.

4.1.1 Arc or Flame Protection

OSHA standard 29 CFR 1910.269 requires that all electric power generation, transmission, and distribution employees who may be exposed to arc or flames wear clothing that does not contribute to the severity of an injury that could be sustained by the employee. This requirement is based on the fact that certain fabrics are easily ignited and can cause burns. Employees who are potentially be exposed to electrical arc and/or gas fires must wear flame resistant/flame retardant clothing. Employees who are not exposed to electrical arc and/or gas fires may wear 100% natural fiber clothing (wool or cotton). [2] R

4.1.2 Fit and Appearance

Clothing of all kinds must meet certain safety requirements when there is a potential for it to catch on moving parts of machinery (gears, pulleys, rotating shafts, etc.). Clothing, whenever practical, must not have loose parts, such as sleeve tabs, pant cuffs, pocket flaps, etc. Sleeves or pant legs must fit closely to the wearer.

When appropriate, the color of the garment selected must be chosen to show stains that could indicate contact with a hazardous substance or to make a worker conspicuous. Also, persons working in areas near traffic must wear fluorescent yellow/reflective vests as specified in the Con Edison Work Area Protection and Traffic Control Field Manual. [3] R/P

4.1.3 Laundering

Maintenance and laundering are needed when clothing is soiled due to ***incidental contact*** with substances typically found in the workplace. In the event an employee's uniform or coveralls are contaminated with a hazardous substance (as outlined in this CEHSP) the employee will turn the

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clothing over to supervision for proper cleaning or disposal as required. All clothes must be laundered in accordance with manufacturer's instructions. [4] R/P

4.2 CON EDISON PPE REQUIREMENTS

4.2.1 Selection of Protective Clothing

Decisions regarding the appropriate garment to wear including hard hats in and around structures must be made on a daily basis according to existing field conditions. The following conditions or materials may be encountered during daily duties:

- Potential for flame or electric arc.
- Presence of oil - non-PCB and PCB-containing.
- Presence of asbestos-containing material (ACM).
- Work with or on lead-containing material.
- Work with hazardous chemicals.

Attachment 1 is a flowchart that provides guidelines for the selection of protective clothing for these hazards. Attachment 2 identifies types of protective clothing.

Based on the potential exposure of the employees, natural fiber clothing may be acceptable. However, in any situation where employees may be exposed to the hazards of electric arc or flame these employees must wear appropriate flame-retardant clothing. These situations will be documented on the appropriate hazard assessment form for the task being conducted.

Requirements for Flame-Retardant Clothing

Employees and contractors must wear flame retardant (FR) clothing when performing tasks that may expose them to the hazards of flame or electric arc. Employees who are potentially exposed to electric arc must wear Nomex, Indura, Ultrasoft, Ultrasoft AC or other FR materials approved by Corporate EH&S. Employees who are potentially exposed to gas flash fire must wear Nomex, Indura, Ultrasoft, Ultrasoft AC or other FR materials approved by Corporate EH&S.

In situations where employees and contractors are required to wear FR clothing, all layers of clothing underneath the FR clothing must be either FR or 100% natural fiber (wool or cotton), including undergarments. In warmer weather, employees or contractors may choose to wear only 100% natural fiber undergarments under the outermost layer of FR clothing. In all cases, the outermost layer of clothing must be FR. Employees and contractors are prohibited from wearing clothing containing polyester, nylon, rayon, and acetate, alone or in blends, when performing tasks that may expose them to flames or electric arc.

In situations that present the potential for flame or electric arc exposure and the possibility that the garments may become soiled with oil, PCB-containing oil, or other liquid, limited-use FR/ **Chemical Resistant (CR)** disposable outerwear must be worn over the FR coveralls. **These disposable FR/CR garments must not be worn without the FR coveralls.**

Clothing Requirements for Oil and PCB-Containing Oil

If oil is present and there is reason to expect that a flame or electrical arc will not occur, employees must use garments that protect against the oil hazard. Depending on the amount of oil present and the potential for contact with oil, either disposable polycoated or Saranex coveralls must be worn. The selection of garment is independent of the PCB content of oil.

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- Saranex coveralls provide greater protection against oil breakthrough and ***penetration*** than do polycoated coveralls. For this reason Saranex coveralls must be worn when the amount of oil present may result in substantial contact.

- In situations where potential contact with oil is minimal, polycoated coveralls can be used.

If a situation has the potential for flame or electric arc exposure and possible soiling of garments with oil, limited-use FR disposable outerwear must be worn over the FR coveralls. **These disposable FR garments must not be worn without the FR coveralls**.

After work involving potential contact with oil is completed, the disposable coveralls must be removed. If the garments have been in direct contact with oil containing 50 parts per million (ppm) or greater PCBs, the coveralls must be disposed of in accordance with CEHSP E06.12, *Disposal*. If the garments have been in direct contact with oil containing less than 50 ppm PCBs, the coveralls must be disposed of as general waste.

Clothing Requirements for Asbestos-Containing Materials

If asbestos-containing material (ACM) is present and there is reason to expect that a flame or electrical arc will not occur, employees must use garments that protect against the asbestos hazard. In this situation, a Con Edison-approved disposable coverall (Tyvek) must be worn during asbestos removal. This coverall may be worn alone or over FR coveralls.

If there is reason to expect that a flame or electrical arc may occur during asbestos work and there is a potential chemical or oil exposure, such as during the removal of arc-proofing tape in a manhole, the limited-use, chemically resistant FR disposable garments (polycoated Sontara) must be worn in place of the asbestos coverall. If there is reason to expect that a flame or electrical arc may occur during asbestos work and there is no potential chemical or oil exposure, the limited-use FR disposable garments (uncoated Sontara) must be worn in place of the asbestos coverall. In these situations, the limited-use FR disposable outerwear must be worn over the FR coveralls. **These disposable FR garments must not be worn without the FR coveralls**.

Upon completion of asbestos work, the asbestos coverall or limited-use FR garment must be removed and disposed of in accordance with the Asbestos Management Manual, Chapter 11 - Storage, Transfer, Transportation and Disposal.

Clothing Requirements for Work with Hazardous Liquid Chemicals

The proper selection of protective clothing depends on the nature of potential hazard (routes of entry, physical characteristics, toxicological properties, etc.), the type of work to be done, ergonomic constraints, and the chemical and physical performance or resistance characteristics required by the protective clothing. Both polycoated and Saranex Tyvek coveralls are chemical resistant to a wide range of chemicals. If a hazardous chemical splashes onto the coveralls, remove the chemical first by washing it off and then remove the coveralls. Saranex coveralls must be worn when the amount of acid, bases, solvents or other hazardous liquids present may result in substantial contact.

- In situations where potential contact with acids, bases, solvents and other hazardous liquid material is minimal, polycoated Tyvek must be worn.
- The PPE for battery maintenance activities includes a rubber apron and vinyl sleeves.

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Clothing Requirements for Welding and Burning

Employees exposed to the hazards created by welding, cutting or brazing operations, including assistants and fireguards, must wear flame-retardant coveralls. Employees performing welding or cutting activities must also don the following equipment:

- Flame-resistant gauntlet gloves.
- Flame-retardant coveralls.
- Flame-resistant aprons or leather vests, jackets, leggings, sleeves and spats worn over the flame-retardant coveralls when additional protection against sparks and radiant energy is needed.
- 100% natural fiber undergarments
- A flame-retardant skullcap with ear covers for overhead work.

Clothing Requirements for Lead Splicing Work

Persons performing lead splicing work must wear FR coveralls. If the job will result in soiling of the FR coveralls, limited-use FR garments must be worn over the FR coveralls. This should protect and extend the life of the FR coveralls. **The limited-use FR garment must not be used without the FR coveralls.**

Clothing Requirements for Working with Hazardous Materials

Clothing for all tasks where there is a potential for exposure to hazardous materials must be approved by EH&S. [5] R/P

Clothing Requirements for Working Near or Over Water

U.S. Coast Guard approved personal flotation devices must be worn by an employee whenever the danger of drowning exists. This condition may exist whenever an employee is working near or over water and could be pulled or pushed or fall into the water.

Each personal flotation device must be maintained in a safe condition and inspected frequently enough to ensure that it does not have rot, mildew, water saturation, or any other condition that could render the device unsuitable for use. An employee may cross streams or other bodies of water only if a safe means of passage, such as a bridge, is provided. [6] R/P

4.2.2 Reusable Clothing Maintenance and Laundering

Most reusable work garments require periodic laundering to clean them of general debris and material that accumulates on them at the work location due to incidental contact. The vendor will maintain those clothes that are part of the rental contract. All other clothes must be laundered according to manufacturer's specifications.

When ***accidental contact*** occurs and reusable clothing becomes soiled or contaminated with materials such as ACM or PCBs, appropriate precautions must be taken.

PCB-Contaminated Reusable Clothing

Reusable clothing that has been in direct contact with oil containing 50 ppm or greater PCBs must be disposed of in accordance with CEHSP E06.12, *Disposal*.

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Reusable clothing that has been in direct contact with oil containing 1 ppm or more PCBs, but less than or equal to 49 ppm PCBs, must be collected and bagged at the work location for vendor pickup.

Friable ACM-Contaminated Reusable Clothing

Reusable clothing that has been in direct contact with friable ACM must be wet down to minimize fiber release, placed in a sealed container, and collected from the employee. The contaminated garment must be removed and disposed of in accordance with the Asbestos Management Manual, Chapter 11 - Storage, Transfer, Transportation and Disposal.

Laundering of 100% Cotton Clothing

The laundering instructions for 100% cotton garments are as follows:

- Machine wash in warm water with similar colors.
- Use only non-chlorine bleach, when needed.
- Tumble dry at low to medium temperature.
- Iron on a low to medium temperature, if required.

Laundering Indura and Proban Coveralls

Both Indura and Proban coveralls are made of cotton that has been treated to make them fire retardant. When washed properly, the fire-retardant treatment should last the life of the garment. The manufacturer's instructions for laundering Indura and Proban treated fabrics must be adhered to, including the following washing instructions:

- Wash clothing inside out to minimize edge and surface abrasion.
- Use a water level sufficient for the quantity of clothing to be washed, preferably the high tide level on the washer.
- Use a quality detergent, such as Tide, All, Era, Yes, or Wisk. Follow the detergent manufacturer's instructions.
- Use a temperature that is as low as possible but that still cleans the garment. When using a quality detergent, the warm or cold setting may be sufficient.
- Do not use chlorine (sodium hypochlorite) bleach such as Clorox as this can affect the fire-retardant properties of these garments.
- When drying garments, use the minimum setting required to dry the clothing in a practical time
- Dry garments inside out.
- To minimize shrinkage, immediately remove garments from the clothes dryer when they are dry or slightly damp.

Laundering Nomex Garments

Nomex garments are made of flame-retardant aramid fibers. The flame-retardant property is "built into" the fiber; it is not applied to a fabric as a treatment or additive, as in the case of the Indura and Proban coveralls. The manufacturer's instructions for laundering Nomex garments must be adhered to, including the following washing instructions:

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- Nomex garments must be sorted and washed separately from other garments to prevent flammable fibers/lint from being transferred to the Nomex garment.
- Heavily soiled or stained garments must be pre-treated as soon as possible with a full-strength heavy-duty liquid detergent.
- The wash load size must allow the garment to move freely throughout the wash and rinse cycles.
- Normal wash water setting (approximately 140^{o} Fahrenheit) is adequate for moderately soiled garments. Higher temperatures may be required for heavily soiled or stained garments.
- A synthetic heavy-duty liquid laundry detergent, such as liquid Tide, All, Era, Yes, and Wisk, is recommended for cleaning Nomex garments.
- Chlorine bleach must not be used. Bleach will not degrade the flame-retardant properties of the garment, but it may cause strength and color loss over time.
- Nomex garments must be tumble-dried on medium or high temperature settings.
- Iron on medium setting, if necessary. [7] R/P

4.3 PPE INSPECTION AND MAINTENANCE

This information will help to ensure that equipment is maintained in a satisfactory condition and provides the required protection when used. The following minimum requirements for inspection and maintenance will be followed.

- PPE must be properly inspected prior to use. Damaged or missing items like holes in gloves or protective clothing, missing side shields on glasses, and broken laces or cracked soles on shoes can significantly impact the effectiveness of the PPE. Signs of wear, such as smooth soles on shoes that can cause slipping or scratches on goggles that limit vision, can present new hazards. PPE that is damaged, missing items, or shows signs of wear, jeopardizing the protection afforded by the equipment, will be removed from service and repaired or replaced.
- PPE must be cleaned and properly decontaminated in accordance with manufacturer recommendations.
- PPE must be properly stored to protect it from exposure to conditions that can damage or compromise its effectiveness. Specific locations acceptable for the storage of PPE will be identified.
- Employees must be familiar with methods for obtaining new PPE in the event that testing and inspection identify unacceptable equipment.

Con Edison maintains a supply of PPE that can be used by facility personnel when needed. The equipment is specific to the tasks performed by Con Edison personnel. [8] R/P

4.4 TRAINING AND TESTING

Refer to CEHSP S05.01, *Hazard Assessment and Personal Protective Equipment*, Section 4.4 for detailed training and testing requirements. [9] R/P

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4.5 RECORDKEEPING

In accordance with CEHSP S05.01, *Hazard Assessment and Personal Protective Equipment,* the Training Coordinator for each operating organization must retain training records for three years. Additionally, OSHA 1910.269(a)(2)(vii) requires that training records associated with FR clothing be maintained for the duration of the employee's employment. The Safety Administrator must maintain hazard assessment documentation for all job types currently performed within the organization. [10] R/P

5.0 DEFINITIONS

***Accidental Contact*:** An unexpected event where a substantial amount of a substance spills, splashes, sprays, or otherwise comes into contact with a worker. It is not a typical occurrence for the duties/job being performed.

Body: Arms, legs, and torso.

Hazard Assessment: A systematic review performed to identify exposure hazards and appropriate PPE for specific work operations. This assessment includes a review of the work activities, equipment, and materials used, and end products and by-products to evaluate the potential for physical contact, noise hazards and/or respiratory hazards.

Hazard Assessment Certifications: Written verification that identifies a completed exposure assessment, including the evaluated tasks/processes and areas, the person who performed the assessment, and the date(s) of the assessment.

Incidental Contact: Materials that an employee may contact during the performance of his daily duties. For example, an auto mechanic contact with lube oil while replacing a part or a troubleshooter brushing up against equipment in a vault during an inspection that results in a smudge on their clothing.

Penetration: Flow of chemicals through clothing discontinuities, such as zippers, seams, and pinholes.

***Personal Protective Equipment (PPE)*:** Clothing and equipment worn by personnel to prevent contact with hazards present in the work area. PPE includes safety glasses, face shields, gloves, safety shoes, hearing protection, hard hats, etc.

Proper: Approved, certified, or suitable, within acceptable guidelines set forth by governing codes and standards, as well as recognized safe work practices.

6.0 RESPONSIBILITIES

Employees: The PPE user is responsible for following the requirements of the PPE procedure, including: wearing required PPE; attending required training; caring for, cleaning, and maintaining PPE; and submitting equipment for repair or replacement.

Environment, Health, and Safety (EH&S): EH&S performs the following functions:

- Reviews applicable regulations and ensures that procedures meet all regulatory requirements.

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- Revises procedures as applicable.
- Reviews/approves controlled documents prior to release.
- Distributes updates and changes.
- Reviews training prepared by the Learning Center.
- Provides technical assistance to Safety Administrators.

Facility or Site Manager Responsible for Compliance: The Con Edison designated individual within each operating organization who is responsible for ensuring compliance with federal, state, and local regulations and this procedure.

Law Department: The Law Department assists and provides guidance to EH&S by reviewing changes to these procedures in light of all applicable statutes and regulations to ensure that the procedures meet all legal requirements.

Operating Organizations: Unless otherwise indicated, operating organizations are responsible for compliance with federal, state, and local regulations and this procedure.

Safety Administrator: Responsible for performing hazard assessments, selecting PPE, and maintaining hazard assessment certifications.

Supervisors: Responsible for ensuring that personnel wear proper PPE and for performing necessary training.

Training Coordinators: Enters PPE training records into the Training Registration System.

7.0 REFERENCES

4.1 HAZARD ASSESSMENT AND GENERAL GUIDELINES FOR SELECTION AND USE OF PPE

[1] 29 CFR 1910.132(d) (hazard assessment, including written certification requirement); 29 CFR 1910.132, Appendix B (non-mandatory compliance guidelines for hazard assessment, including Section 7, reassessment of hazards). NOTE: The OSHA regulations do not specifically require reassessment of hazards, although the issue is addressed in the Appendix B non-mandatory guidelines).

[2] 29 CFR 1910.137 (electrical protective equipment); 29 CFR 1910.269(l)(6) (apparel for electrical power generation, transmission, and distribution).

[3] USDOT Federal Highway Administration, *Manual on Uniform Traffic Control Devices,* Section 6D.03, Worker Safety Considerations (2003 Edition) (clothing requirements when working near traffic). The manual can be found at: http://mutcd.fhwa.dot.gov/HTM/2003/html-index.htm. The remaining requirements in this section relating to fit and appearance are required by Con Edison as a matter of policy.

[4] See Note 6 below regarding laundering.

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4.2 CON EDISON REQUIREMENTS

[5] 29 CFR 1910.132 (general PPE requirements); 29 CFR 1910.137 (electrical protective equipment); 29 CFR 1910.252(b)(3) (protective clothing for welding, cutting and brazing); 29 CFR 1910.269(l)(6) (apparel for electric power generation, transmission and distribution). NOTE: The OSHA regulations do not contain specific requirements for protective apparel comparable to those discussed in CEHSP S05.01, *Hazard Assessment and Personal Protective Equipment* relating to head, eye and/or face, hand and foot protection. The specific clothing identified in this section has been determined to meet OSHA requirements relating to proper PPE. NOTE: 29 CFR 1910.269(l)(6) allows clothing made of acetate, nylon, polyester or rayon provided it has been treated to eliminate hazards; Con Edison bars all clothing containing such fibers as a matter of policy.

[6] 29 CFR 1910.269(w)(5)(i)-(iii) (requiring personal flotation device when danger of drowning exists). NOTE The cited provision applies only to the operation and maintenance of electric power generation, control, transformation, transmission and distribution lines and equipment. Con Edison applies this requirement to all activities that involve the potential for drowning as a matter of policy.

[7] 29 CFR 1910.132(a) (general PPE maintenance requirement); 29 CFR 1910.132(e) (prohibiting use of damaged/defective PPE); 29 CFR 1910.132, Appendix B, Sec. 12 (non-mandatory: cleaning and maintenance); 29 CFR 1910.137(b) (in service use and care of electrical protective equipment). NOTE: Con Edison has developed the specific procedures in this section relating to maintenance and laundering of particular types of clothing to ensure that the clothing continues to provide proper protection to Con Edison employees.

4.3 PPE INSPECTION AND MAINTENANCE

[8] 29 CFR 1910.132(a) (general PPE maintenance requirement); 29 CFR 1910.132(e) (prohibiting use of damaged/defective PPE); 29 CFR 1910.132, Appendix B, Sec. 12 (non-mandatory: cleaning and maintenance); 29 CFR 1910.137(b) (in service use and care of electrical protective equipment). NOTE: Con Edison has developed the specific procedures in this section relating to inspection and maintenance to ensure that protective clothing is maintained in a satisfactory condition.

4.4 TRAINING AND TESTING

[9] See CEHSP S05.01, *Hazard Assessment and Personal Protective Equipment*, for training and testing requirements.

4.5 RECORDKEEPING

[10] 29 CFR 1910.132(d)(2) (written hazard assessment certification); 29 CFR 1910.132(f)(4) (training records); 29 CFR 1910.269(a)(2) (electric power generation, transmission and distribution training recordkeeping). NOTE: the OSHA regulations do not specify a retention period for training records under 29 CFR 1910.132(f)(4). Con Edison has adopted a three-year record retention period as a matter of policy. 29 CFR 1910.269(a)(2) requires training records to be retained for the duration of the employee's employment**.** This training covers PPE, including FR clothing.

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National Safety Council - Accident Prevention Manual for Business and Industry, 10th edition.

8.0 REVISION HISTORY

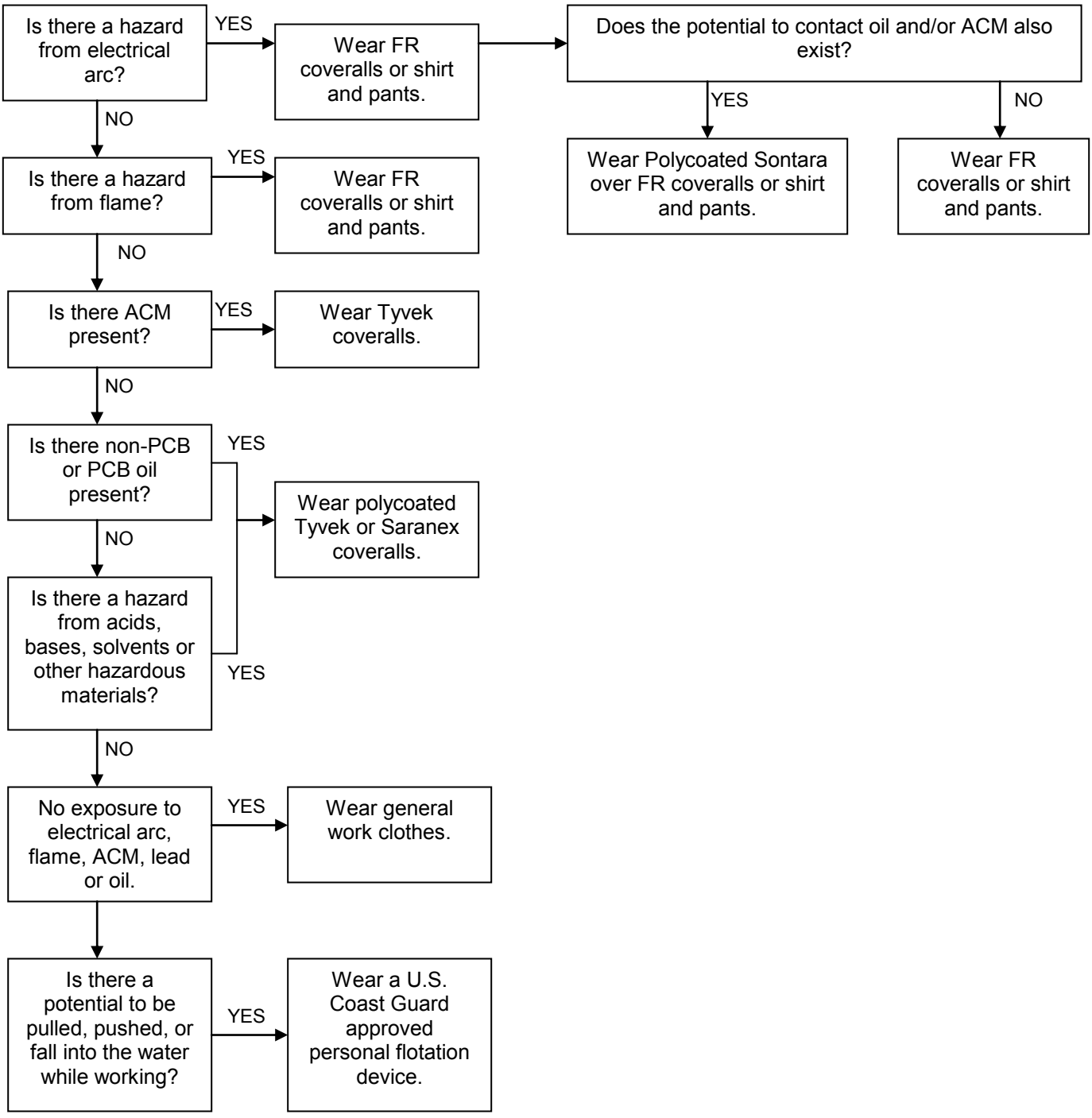
Revision Date	Revision #	Summary of Change	Author
6/28/2013	9	Periodic review by SME and addition of Induara, Ultrasoft, Ultrasoft AC or any other FR clothing approved by Corporate EH&S for Gas Operations. Added revision history section. Assign new revision #, revision and effective date to reflect review of this CEHSP.	P. Kothari, S. Ng
8/27/2013	10	Updated section 4.2.1 to include statement pertaining to the use of hard hats in and around structures; Updated various hyperlinks and title of other CEHSPs referenced throughout this document; Updated revision date and number to reflect these changes	B. Suggs S. Ng

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ATTACHMENT 1

GUIDELINES FOR SELECTION OF PROTECTIVE CLOTHING



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ATTACHMENT 2
PERSONAL PROTECTIVE CLOTHING

PROTECTIVE CLOTHING	USE	GROUP/OPERATION
Flame Retardant (FR)	• Worn when there is potential exposure to flame or electric arc. • Worn when performing lead splicing.	Steam, Powerhouse, Electrical Welding, Hotwork Gas Operations Welding, Hotwork
U.S. Coast Guard Approved Personal Flotation Device	Worn when the potential of drowning exists.	Steam, Powerhouse, Electrical, Spill Response Team Members
Tyvek	Worn when potential for contact with asbestos-containing materials (ACM).	Maintenance, Spill Response Team Members
Kleenguard Ultra (Tyvek equivalent)	Worn for general utility, asbestos, bloodborne pathogens, lead dust, bulk chemical delivery, and short-term, incidental contact with oil, including polychlorinated biphenyls (PCB).	Maintenance, Spill Response Team Members
Disposable Polycoated / Saranex	• Polycoated is worn when there is minimal potential for contact with PCBs. • Saranex is worn where there is greater potential for contact with PCBs.	Maintenance, Spill Response Team Members
Disposable Polycoated/ Saranex	• Polycoated is worn when there is a minimal potential for contact with acid, bases, solvents and other hazardous liquid materials. • Saranex is worn where there is a greater potential for contact with acids, bases, solvents and other hazardous liquid materials	Acid Deliveries, Maintenance of Acid Systems, solvents
Polycoated Sontara	Polycoated Sontara is worn when there is both a potential for arc or flame and a potential for exposure to an oil contaminant or asbestos. This garment protects normal FR clothing.	Operations where there is an exposure to arc or flame and where there is an exposure to oil and/or asbestos
Uncoated Sontara	Uncoated Sontara is worn when there is a potential for arc or flame and no potential for exposure to an oil contaminant. This garment protects normal FR clothing.	Operations where there is an exposure to arc or flame and where there is an exposure to asbestos (no oil)
Rubber Apron Vinyl Sleeves	Rubber apron bib style and vinyl sleeves are worn over work clothes to protect against acids.	Battery Maintenance and acid handling

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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
CORPORATE ENVIRONMENTAL, HEALTH AND SAFETY PROCEDURE

CEHSP S12.00 – Lockout/Tagout Procedures
Revision 4: 11/17/2014 Effective Date: 01/01/2015

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1.0 PURPOSE

IT IS THE POLICY OF CON EDISON TO COMPLY WITH ALL FEDERAL REGULATIONS RELATING TO *LOCKOUT/TAGOUT.* The purpose of this procedure is to ensure that before any employee performs any servicing or maintenance on a machine or equipment where the unexpected energizing, startup or release of stored energy could occur and cause injury, the machine or equipment is isolated from the ***energy source*** and rendered inoperative.

This document does not supersede Con Edison's General Instructions Governing Work on System Electrical Equipment (i.e., Bluebook) or any other existing corporate documents (i.e., COP 5-1-2, Processing & Controlling Operating Orders and Work Permits).

2.0 APPLICABILITY

This Corporate, Environmental and Safety Procedure (CEHSP) applies to all Con Edison facilities, each of which is responsible for establishing and documenting site-specific lockout/tagout procedures for each piece of equipment, machinery or system under that site's supervision. Procedures may be established for classes of equipment or machinery if their function and operation are similar and the procedure can collectively account for the control of all hazardous energy sources.

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This CEHSP also applies to all outside contractors performing work on Con Edison equipment within the facility. It is the responsibility of the Facility's Manager to ensure compliance. Failure to comply may result in immediate termination of such outside contractor's services.

Procedures must be developed, documented and utilized by each Con Edison site for the control of potentially hazardous energy when employees are engaged in the activities covered by this section.

Exception: The site does not need to document the required procedure for a particular machine or equipment, when **all** of the following elements exist:

(1) The machine or equipment has no potential for stored or residual energy or re-accumulation of stored energy after shut down which could endanger employees;

(2) The machine or equipment has a single energy source which can be readily identified and isolated;

(3) The isolation and locking out of that energy source will completely de-***energize*** and deactivate the machine or equipment;

(4) The machine or equipment is isolated from that energy source and locked out during ***servicing and/or maintenance***;

(5) A single ***lockout device*** will achieve a locked-out condition;

(6) The lockout device is under the exclusive control of the authorized employee performing the servicing or maintenance;

(7) The servicing and/or maintenance does not create hazards for other employees; and

(8) The employer, in utilizing this exception, has had no accidents involving the unexpected activation or re-energization of the machine or equipment during servicing and/or maintenance.

3.0 INTRODUCTION

3.1 PROCEDURE

This procedure applies to any job task that may expose workers to potentially hazardous energy. There are several qualified exceptions:

- Anytime a guard is removed. Minor tool changes and adjustments and/or other minor servicing activities that are routine, repetitive, and integral to the use of the equipment and that occur during ***normal production operations***, are not covered by the lockout/tagout standard, provided the work is performed using alternative measures that provide effective protection.

- While servicing or maintaining cord and plug connected electrical equipment, provided that the equipment is unplugged from the energy source; and the plug remains under the exclusive control of the employee performing the servicing and/or maintenance.

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- Exposure to electrical hazards from work on, near, or with conductors or equipment in electric utilization installations when employees are properly trained and protected from the hazards.

- ***Hot tap*** operations that involve transmission and distribution systems for gas, steam, water, or petroleum products when they are performed on pressurized pipelines provided that continuity of service is essential, shutdown of the system is impractical, and employees are provided with alternative protection that is equally effective. [1] R

3.2 PERSONNEL

Authorized Employees

An authorized employee is one who is able to initiate these procedures, and to employ all parts of the procedures to ensure the safe completion of work. Authorized employees are selected on the basis of their formal training, on the job experience, licenses held and familiarity with mechanical and electrical work and associated hazards related to this work. All authorized employees must meet the training requirements stated in section 4.7 of this procedure.

Affected Employees

Individuals whose jobs requires them to operate a machine or equipment on which servicing or maintenance is being performed under lockout or tagout, or whose job requires them to work in an area in which such servicing or maintenance is being performed.

All other company and outside contract employees whose work operations are or may be in an area where lockout/tagout procedures may be utilized are also deemed affected employees. [2] R

4.0 COMPLIANCE REQUIREMENTS

4.1 LOCKOUT PROCEDURE

Except under conditions noted in Section 4.4, the only authorized employee that can remove a lock and tag is the authorized employee who installed the lock and tag.

- The authorized employee who performed all the steps in Section 4.2, A-B-C-D-E, may apply a sequentially numbered padlock to equipment capable of accommodating a padlock for the purpose of preventing the normal operation of an ***energy isolating device*** such as a switch, valve, etc.

- The authorized employee will continue the procedure in Section 4.2 steps F and G to completion, and return the padlock along with all Stop Tags.

- The authorized employee will update log entries as stated in 4.2 E. [3] R/P

4.2 LOCKOUT/TAGOUT PROCEDURE SEQUENCE

A. Notification

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The authorized employee will notify the supervisor of the facility and any affected employee in the facility that a lockout/tagout procedure will be put into effect, the location of the equipment to be taken off-line, and the reason for the procedure.

The authorized employee will issue the appropriate amount of Stop Tags, and enter data into a logbook consisting of:

- Date and time
- ID number of tag(s) issued
- Equipment removed from service
- Authorized employee name(s)
- Date and time tags were returned (equipment returned to service).

The authorized employee is to acknowledge understanding the procedure, and the importance of adhering to the procedure.

B. Identification and Location of Devices

After receiving a job briefing on the hazards associated with the work assignment and required personal protective equipment, the authorized employee will make a survey to locate and identify all energy isolating devices (i.e., which switch(s) valve(s) or other isolating devices apply to the equipment) to be locked out.

Note: More than one energy source may be involved.

C. Shut Down of Equipment

The authorized employee must shut the machinery or equipment down in the operational method described by departmental procedure, or stop and obtain an operating procedure from his/her supervisor before shutting down the equipment.

D. Isolation - Dissipation

The authorized employee will operate the switch, valve, or other energy-isolating device, or multiple combinations thereof, so that the equipment is isolated from all of its energy sources. Stored energy between the isolating device and the equipment must be dissipated. Energy such as spring-loaded components, rotating components, pressurized hydraulic, water, steam, gas, air pressure, or potential stored energy (i.e., capacitors) must be relieved of potential hazard by blocking, restraining, re-positioning or bleeding down as required.

E. Lockout/Tagout Procedure Sequence

Lockout is the preferred method of isolating machines or equipment from energy sources, and must be used when the energy isolating device is ***capable of being locked out***.

A tagout procedure may be used on those energy isolating devices that are incapable of being locked out after all available methods and means have been exhausted and no satisfactory alternative is available.

The authorized employee will apply Stop Tags to each energy isolating device, in accordance with an associated procedure.

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The authorized employee will record the following information on each tag affixed:
1. Name of employee invoking the procedure
2. Date procedure initiated
3. Reason for procedure
4. Warning legend

When the equipment is returned to operation, the authorized employee will remove all Stop Tags and log each stop tag removed, completing the procedure.

F. Verification

The authorized employee will verify that all energy has been isolated by going back to the original device and verifying by testing that an unexpected release of stored energy will not occur (i.e., electrical, hydraulic, pneumatic, pressurized liquids and gases etc.). After ensuring that personnel are not exposed to any hazards from the release of stored energy, the authorized employee will follow written procedures for performing the assigned task.

G. Restoring Machine or Equipment to Normal Operation

After the assigned task is completed and the equipment is ready for return to normal operation, the authorized employee will perform the following sequence:

1. Check area around the equipment to be sure no other personnel are exposed to danger. Notify all affected employees of the intent to restore energy.
2. Remove all tools and supplies from immediate vicinity.
3. Check to make certain all protective guards, covers, casings, etc. are in place, and that all moving parts are unrestricted.
4. Check position of local starting mechanism, valves, controls, etc. to ensure against premature or unwanted action leading to a hazardous condition.
5. Remove, in reverse sequence of application, all Stop Tags.
6. Re-position valves, switches, etc. in compliance with operating procedures.
7. Operate the energy isolating devices to restore energy to the equipment.
8. Notify the supervisor of the facility and affected employees of the restoration of energy to the equipment.
9. Operate the equipment in the normal manner to detect any discrepancies. Repeat procedures as found necessary.
10. Return Stop Tags and update the log in accordance with step 4.1 E. [4] R/P

4.3 GROUP LOCKOUT OR TAGOUT

When work is performed on machinery or equipment involving more than one person, each employee in the group is responsible for adhering to all provisions of the procedures for lockout or tagout.

In the event a group of employees require the procedure to be used, the following actions must be followed:

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1. A single authorized employee will be designated by the supervisor of the facility as having primary responsibility for a set number of persons working under the protection of a group procedure.

2. This authorized employee will be the individual designated to coordinate with the affected employees and ensure continuity of protection.

3. Each employee working on the unit must review with the authorized employee designated by the supervisor of the facility, placement of Stop Tag or padlock device on each energy isolating device de-energized under the procedure.

4. All affected employees must receive a job briefing by an authorized employee. [5] R

4.4 SHIFT OR PERSONNEL CHANGES

Shift Changes

When work on a machine or piece of equipment will continue into the next work shift, protection must be continued. The oncoming authorized employee must be satisfied that the procedure is properly in effect and it is safe to transfer lockout or ***tagout devices***.

- The oncoming authorized employee will be given a job briefing, and will accompany the off-going authorized employee to the location of each Stop Tag or padlock device.

- The off-going authorized employee will point out the location of all Stop Tags and padlocks applied during his/her shift.

- The oncoming authorized employee will record the number of Stop Tags and padlocks applied.

- The oncoming authorized employees must ensure that they are familiar with the existence and reason for the lockout or tagout procedure, and the number of Stop Tags and padlock devices recorded.

- The authorized employees will review the number of Stop Tags and padlock devices for discrepancies, and then record the transfer of responsibility from the off-going to the oncoming employee in the log.

Personnel Changes

Each Stop Tag or padlock device must be removed from each energy isolating device by the authorized employee who applied them.

If the employee who initiated the procedure is not available to remove the Stop Tag or padlock device, they may be removed by a ***qualified employee*** provided the following conditions are completely satisfied:

1. The qualified employee must be trained in all aspects of this procedure.

2. The qualified employee has complied with all parts of this procedure prior to removing the device.

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3. The qualified employee verifies that the employee who initiated the procedure is unavailable. All reasonable attempts must be made to contact the employee and inform the employee of the intended action.

The employee will be informed that the above action was taken before the employee begins work again at the location.

Special Circumstances

In situations where a lockout device must be removed by someone other than the person who installed it, the following steps must be taken:

- A qualified employee on site must personally verify that no affected employees are exposed to danger from re-energizing or reactivating equipment.

- The lockout device(s) may be removed by cutting or similar method only after the qualified employee has verified that no affected employee exposure exists. [6] R

4.5 ANNUAL INSPECTION

The operating organization must conduct, on at least an annual basis, an inspection of the requirements and compliance with this procedure. This inspection must:

- Be performed by an authorized employee other than those using the procedure.

- Correct any inadequacies or deficiencies found.

- Include a review of the employee's responsibilities between each authorized employee and the inspector.

- Be certified to include the machine or equipment, the date of the inspection, the employees included, and the person performing the inspection.

Attachment 2 must be used for these inspections.

These annual inspections are intended to assure that the energy control procedure continues to be implemented properly and that the employees involved are familiar with their responsibilities under that procedure. The inspection must be able to determine whether the:

- Steps in the energy control procedure are being followed;

- Employees involved know their responsibilities under the procedure;

- Procedure is adequate to provide the necessary protection, and what changes, if any, are needed.

When lockout is used, the inspection must include:

- A review with all authorized employees for the procedure being inspected,

- Their responsibilities under that procedure.

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- Group meetings between the authorized employee and affected employees.

When tagout is used, this review must be performed with all affected employees, as defined in the standard, as well as with all authorized employees, for the procedure being inspected.

The site's senior manager must certify that the annual inspections have been performed. The certification must identify:

- The machine or equipment on which the energy control procedure was being utilized,
- The date of the inspection,
- The employees included in the inspection,
- And the person performing the inspection.

The results of the audit will be forwarded to the manager of maintenance, for recordkeeping. [7] R

4.6 PROTECTIVE HARDWARE AND MATERIAL

Lockout and tagout equipment must be provided in sufficient quantity to satisfy the requirements of this procedure. Such hardware and material must be capable of safely tagging, isolating, securing or blocking machines and equipment from energy sources.

Lockout and tagout devices must be singularly identified, must be the only devices used for controlling energy, and must not be used for other purposes.

Whenever replacement or major repair, renovation or modification of a machine or equipment is performed, and whenever new machines or equipment are installed, energy isolating devices for such machine or equipment must be designed to accept a lockout device

Durable

Lockout and tagout devices must be capable of withstanding the environment to which they are exposed for the maximum period of time that exposure is expected.

Tagout devices must be constructed and printed so that exposure to weather condition or wet and damp locations will not cause the tag to deteriorate or the message on the tag to become illegible.

Tags must not deteriorate when used in corrosive environments such as areas where acid and alkaline chemicals are handled and stored.

Standardized

Lockout and tagout devices must be standardized within the facility where used in at least one of the following criteria - color, shape, or size. Additionally, on tagout devices, print and format must be standardized.

Substantial

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Lockout devices must be substantial enough to prevent removal without the use of excessive force or unusual techniques, such as with the use of bolt cutters or other metal cutting tools.

Tagout devices, including their means of attachment, must be substantial enough to prevent inadvertent or accidental removal. Tagout device attachment means must be of a non-reusable type, attachable by hand, self-locking, and non-releasable with a minimum unlocking strength of no less than fifty (50) pounds and having the basic characteristics of being at least equivalent to a one-piece, all-environment-tolerant nylon cable tie.

Identifiable

Lockout and tagout devices must indicate the identity of the employee applying the devices.

Tagout devices must warn against hazardous condition if the energy isolating device is not operated, and must include a legend such as the following - Do Not Open, Do Not Close, Do Not Start, Do Not Energize, Do Not Operate. [8] R

4.7 TRAINING

The company will provide training to ensure that employees understand the purpose and function of the lockout/tagout procedure and that the knowledge and skills required for the safe application, usage and removal of lockout/tagout controls are acquired by authorized employees.

The company must certify that employee training has been accomplished and is up to date. The certification must contain each employee's name and dates of training.

Equipment-Specific Training

Each authorized employee must receive training in the recognition of applicable hazardous energy sources, the type and magnitude of the energy available in the workplace, and the methods and means necessary for energy isolation and control.

Each affected employee must be instructed in the purpose and use of the lockout/tagout procedure.

All other employees whose work operations are or may be in an area where lockout/tagout procedures may be utilized must be instructed about the procedure and about the prohibition relating to attempts to restart or reenergize machines or equipment that are locked out or tagged out.

Specific instructions will include the proper procedure for locking out and tagging out of devices. Specific training will be given regarding the limitations of tags. Attachment 1 must be utilized for this purpose.

Training will be done through The Learning Center, or by the safety administrator or by the responsible shop operating supervisor. The tracking and recording of this training will be the responsibility of the department training Coordinator. [9] R/P

Retraining

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Retraining must be provided for all authorized and affected employees whenever there is a change in their job assignments, a change in machines, equipment or processes that present a new hazard, or when there is a change in the energy control procedure.

Additional retraining must be conducted whenever a periodic inspection reveals, or local EH&S has reason to believe, that there are deviations from, or inadequacies in the employee's knowledge, or use of the energy control procedures.

The training must reestablish employee proficiency and introduce new or revised control methods and procedures, as necessary. [10] R

5.0 DEFINITIONS

Affected Employee: An employee whose job requires him/her to operate or use a machine or equipment on which servicing or maintenance is being performed under lockout or tagout, or whose job requires him/her to work in an area in which such servicing or maintenance is being performed.

Authorized Employee: A person who locks out or tags out machines or equipment in order to perform servicing or maintenance on that machine or equipment. An affected employee becomes an authorized employee when that employee's duties include performing servicing or maintenance covered under this section.

Capable of Being Locked Out: An energy isolating device is capable of being locked out if it has a hasp or other means of attachment to which, or through which, a lock can be affixed, or it has a locking mechanism built into it. Other energy isolating devices are capable of being locked out, if lockout can be achieved without the need to dismantle, rebuild, or replace the energy isolating device or permanently alter its energy control capability.

Energized: Connected to an energy source or containing residual or stored energy.

Energy Isolating Device*:* A mechanical device that physically prevents the transmission or release of energy, including but not limited to the following: a manually operated electrical circuit breaker; a disconnect switch; a manually operated switch by which the conductors of a circuit can be disconnected from all ungrounded supply conductors, and, in addition, no pole can be operated independently; a line valve; a block; and any similar device used to block or isolate energy. Push buttons, selector switches and other control circuit type devices are not energy isolating devices.

Energy Source: Any source of electrical, mechanical, hydraulic, pneumatic, chemical, thermal, or other energy.

Hot Tap: A procedure used in the repair, maintenance and services activities which involves welding on a piece of equipment (pipelines, vessels or tanks) under pressure, in order to install connections or appurtenances. It is commonly used to replace or add sections of pipeline without the interruption of service for air, gas, water, steam, and petrochemical distribution systems.

Lockout: The placement of a lockout device on an energy isolating device, in accordance with an established procedure, ensuring that the energy isolating device and the equipment being controlled cannot be operated until the lockout device is removed.

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Lockout Device: A device that utilizes a positive means such as a lock, either key or combination type, to hold an energy isolating device in the safe position and prevent the energizing of a machine or equipment. Included are blank flanges and bolted slip blinds.

Normal Production Operations: The utilization of a machine or equipment to perform its intended production function.

Qualified Employee: A qualified person is a person who has been trained and has demonstrated proficiency, in compliance with 29 CFR 1910.147(c)(7), to perform servicing and maintenance on the machine or equipment to be inspected.

Servicing and/or Maintenance: Workplace activities such as constructing, installing, ***setting up***, adjusting, inspecting, modifying, and maintaining and/or servicing machines or equipment. These activities include lubrication, cleaning or un-jamming of machines or equipment and making adjustments or tool changes, where the employee may be exposed to the unexpected energization or startup of the equipment or release of hazardous energy.

Setting Up: Any work performed to prepare a machine or equipment to perform its normal production operation.

Tagout: The placement of a tagout device on an energy isolating device, in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

Tagout Device: A prominent warning device, such as a tag and a means of attachment, which can be securely fastened to an energy isolating device in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

6.0 REFERENCES

3.0 INTRODUCTION

3.1 PROCEDURE

[1] 29 CFR 1910.147(a)(2)(ii)-(iii) (applicability and exceptions).

3.2 PERSONNEL

[2] 29 CFR 1910.147(b) (definitions).

4.0 COMPLIANCE REQUIREMENTS

4.1 LOCKOUT PROCEDURE

[3] 29 CFR 1910.147(c)(1) (energy control program generally). See 29 CFR 1910.147, Appendix A (non-mandatory guidelines: typical minimal lockout procedure).

4.2 LOCKOUT/TAGOUT PROCEDURE SEQUENCE

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[4] 29 CFR 1910.147(c)(2) (preference for lockout); 29 CFR 1910.147(c)(3) (full employee protection); 29 CFR 1910.147(c)(4) (energy control procedure); 29 CFR 1910.147(c)(9) (notification of employees); 29 CFR 1910.147(d)(1)-(6) (preparation for shutdown, machine or equipment shutdown; machine or equipment isolation; lockout or tagout device application; stored energy; verification of isolation); 29 CFR 1910.147(e)(1)-(3) release from lockout or tagout). See 29 CFR 1910.147, Appendix A (non-mandatory guidelines: typical minimal lockout procedure).

4.3 GROUP LOCKOUT OR TAGOUT

[5] 29 CFR 1910.147(f)(3) (group lockout/tagout).

4.4 SHIFT OR PERSONNEL CHANGES

[6] 29 CFR 1910.147(c)(8) (requiring lockout/tagout to be performed only by authorized employee performing servicing and/or maintenance); 29 CFR 1910.147(f)(4) (shift changes).

4.5 ANNUAL INSPECTION

[7] 29 CFR 1910.147(c)(6).

4.6 PROTECTIVE HARDWARE AND MATERIAL

[8] 29 CFR 1910.147(c)(5) (protective materials and hardware).

4.7 TRAINING

[9] 29 CFR 1910.147(c)(7)(i), (iv) (training and recordkeeping). NOTE: This section includes Con Edison-specific procedures relating to training and recordkeeping.

[10] 29 CFR 1910.147(c)(7)(iii) (retraining).

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REVISION HISTORY

Revision Date	Revision #	Summary of Change	Author
11/17/14	5	Periodic Review. Inserted exception for work conducted under Subpart S	M. McFarland

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ATTACHMENT 1
EXAMPLE SITE PROCEDURE

GENERAL

The following simple lockout procedure is provided to assist employers in developing their procedures so they meet the requirements of this standard. When the energy-isolating devices are not lockable, tagout may be used, provided the employer complies with the provisions of the standard that require additional training and more rigorous periodic inspections. When tagout is used and the energy-isolating devices are lockable, the employer must provide full employee protection (see 29 CFR 1910.147 (c)(3)) and additional training and more rigorous periodic inspections are required. For more complex systems, more comprehensive procedures may need to be developed, documented, and utilized.

Lockout Procedure for

_____

(Name of Company for single procedure or identification of equipment if multiple procedures are used).

Purpose

This procedure establishes the minimum requirements for the lockout of energy isolating devices whenever maintenance or servicing is done on machines or equipment. It must be used to ensure that the machine or equipment is stopped, isolated from all potentially hazardous energy sources and locked out before employees perform any servicing or maintenance where the unexpected energization or start-up of the machine or equipment or release of stored energy could cause injury.

Compliance With This Program

All employees are required to comply with the restrictions and limitations imposed upon them during the use of lockout. The authorized employees are required to perform the lockout in accordance with this procedure. All employees, upon observing a machine or piece of equipment which is locked out to perform servicing or maintenance, must not attempt to start, energize, or use that machine or equipment.

_____

Type of compliance enforcement to be taken for violation of the above.

Sequence of Lockout

(1) Notify all affected employees that servicing or maintenance is required on a machine or equipment and that the machine or equipment must be shut down and locked out to perform the servicing or maintenance.

_____

Name(s)/job title(s) of affected employees and how to notify.

(2) The authorized employee must refer to the company procedure **for the particular machine or equipment** to identify the type and magnitude of the energy that the machine or equipment

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utilizes, must understand the hazards of the energy, and must know the methods to control the energy.

Type(s) and magnitude(s) of energy, its hazards and the methods to control the energy.

(3) If the machine or equipment is operating, shut it down by the normal stopping procedure (depress the stop button, open switch, close valve, etc.).

Type(s) and location(s) of machine or equipment operating controls.

(4) De-activate the energy isolating device(s) so that the machine or equipment is isolated from the energy source(s).

Type(s) and location(s) of energy isolating devices.

(5) Lock out the energy isolating device(s) with assigned individual lock(s).

(6) Stored or residual energy (such as that in capacitors, springs, elevated machine members, rotating flywheels, hydraulic systems, and air, gas, steam, or water pressure, etc.) must be dissipated or restrained by methods such as grounding, repositioning, blocking, bleeding down, etc.

Type(s) of stored energy - methods to dissipate or restrain.

(7) Ensure that the equipment is disconnected from the energy source(s) by first checking that no personnel are exposed, then verify the isolation of the equipment by operating the push button or other normal operating control(s) or by testing to make certain the equipment will not operate.

Caution: Return operating control(s) to neutral or "off" position after verifying the isolation of the equipment.

Method of verifying the isolation of the equipment.

(8) The machine or equipment is now locked out.

Restoring Equipment to Service

When the servicing or maintenance is completed and the machine or equipment is ready to return to normal operating condition, the following steps must be taken.

(1) Check the machine or equipment and the immediate area around the machine to ensure that nonessential items have been removed and that the machine or equipment components are operationally intact.

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(2) Check the work area to ensure that all employees have been safely positioned or removed from the area.

(3) Verify that the controls are in neutral.

(4) Remove the lockout devices and reenergize the machine or equipment. Note: The removal of some forms of blocking may require re-energization of the machine before safe removal.

(5) Notify affected employees that the servicing or maintenance is completed and the machine or equipment is ready for use.

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ATTACHMENT 2
LOCKOUT/TAGOUT PERIODIC INSPECTION

Facility Name _____ Date _____
Address _____
Equipment Name _____ I.D. No. _____
Authorized Inspector (Print) _____ I.D. No. _____

The identified equipment requires a periodic inspection of the energy control procedures according to §1910.147(6) The Control of Hazardous Energy (Lockout/Tagout). Check (✓) or complete all elements of this form that apply to the Periodic Inspection. Note deficiencies in comments section.

ENERGY SOURCES

☐ Electrical ☐ Hydraulic ☐ Chemical ☐ Other _____
☐ Mechanical ☐ Pneumatic ☐ Thermal _____

ENERGY ISOLATING DEVICES

☐ A manually operating electrical circuit breaker.
☐ A disconnect switch
☐ A manually operated switch by which the circuit's conductors can be disconnected from all underground supply conductors (no pole can be operated individually).
☐ A line valve
☐ A block
☐ A similar device used to block or isolate energy.
☐ Other _____

Note: Push buttons, selector switches, and other circuit type devices are not energy-isolating devices.

	YES	NO	COMMENTS
Do authorized employees understand the energy control procedures for this equipment?			
Do the authorized employees understand the requirements of the standard for this equipment?			
Do the authorized employees understand which locks/tags are to be used on this equipment?			
Are the lockout/tagout procedures being followed?			
Do employees understand their responsibilities in the energy control procedure?			
Have any deviations or inadequacies been identified during this inspection that require attention? If so, list.			
Have tagout procedures been reviewed when tagout alone is the only means of energy isolation?			
Have you reviewed the removal of an isolating circuit breaker?			
Have you reviewed blocking of a controlling switch?			
Have valve handle removal procedures been reviewed?			
Have you reviewed the opening of an extra disconnect switch?			

The items checked above have been reviewed with/explained to the authorized employees at the time of the periodic inspection.

Authorized Employee (Signature)	Date	Authorized Employee (Signature)	Date

I hereby certify that the periodic inspection for compliance with lockout/tagout standards on the equipment as specified by OSHA 29 CFR §1910.147 has been satisfactorily completed with the authorized employees identified above.

Inspector _____ _____ _____
Signature Title Date

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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

CORPORATE ENVIRONMENTAL, HEALTH AND SAFETY PROCEDURE

CEHSP S17.01 – Electrical Enclosed Spaces

Revision 19: 04/23/2014 Effective Date: 07/01/2014

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1.0 PURPOSE

IT IS THE POLICY OF CON EDISON TO ENSURE THE HEALTH AND SAFETY OF EMPLOYEES AND CONTRACTORS WORKING IN ELECTRICAL ENCLOSED SPACES. This procedure discusses entry into ***electrical enclosed spaces***, including requirements for testing the atmosphere, training, ventilation, and monitoring.

2.0 APPLICABILITY

This Corporate Environmental, Health and Safety Procedure (CEHSP) applies to all Con Edison employees and contractors working under Con Edison oversight (defined as "contractors" for this CEHSP), who work in electrical enclosed spaces used for the operation and maintenance of electric power generation, transmission, and distribution lines and equipment, including fiber-optic equipment associated with these electrical systems.

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For outside agencies such as public improvement, that are not under contract with Con Edison, the Con Edison organization serving as the primary contact must inform the agency's project supervision of the relevant safety precautions to be taken when working in Con Edison facilities that meet the definition of an electrical enclosed space under Occupational Safety and Health Act (OSHA) regulations. The communication of the potential hazards and relevant safety precautions to the agency must be documented.

3.0 INTRODUCTION

This CEHSP identifies the procedures for inspection, entry and work in electrical enclosed spaces. Spaces that are not designed for entry under normal operating conditions are not considered to be electrical enclosed spaces for the purposes of this procedure. In addition, spaces that are expected to contain a ***hazardous atmosphere*** are not considered to be electrical enclosed spaces. These spaces are instead addressed as ***permit-required confined spaces***.

This procedure does not address practices in permit-required confined spaces, ***gas enclosed spaces*** (working spaces such as gas manholes) and similar structures not associated with electric power generation, transmission, and distribution. Entry into these spaces must be performed in accordance with applicable CEHSPs. Permit-required confined spaces are addressed in CEHSP S16.00, *Permit-Required Confined Space Program,* and gas enclosed spaces are addressed in CEHSP S17.02, *Gas Enclosed Spaces.*

4.0 COMPLIANCE REQUIREMENTS

4.1 JOB BRIEFINGS

The lead or more knowledgeable employee must conduct a job briefing with the employees involved before they start the job. The briefing must cover: the hazards associated with the job; work procedures involved; special precautions; energy source controls; and personal protective equipment (PPE) requirements. The procedures covered will include personal escape and rescue plans based on the configuration of the enclosed space and address proper emergency contacts Additional briefings must be held if significant changes that might affect the safety of the employees occur during the course of the work. For example, the arrival of other personnel to perform work that could affect an ongoing job at a given location triggers the requirement for additional briefings. Job briefings must be documented [1] R

4.2 VEHICULAR OR PEDESTRIAN TRAFFIC

Prior to the performance of work, protection of enclosed space entry work areas must be planned, using the current Con Edison *Work Area Protection and Traffic Control Field Manual,* to avoid vehicular and pedestrian traffic hazards. [2] R

4.3 PRE-ENTRY INSPECTION

4.3.1 Evaluation of Potential Hazards

Before an entrance cover to an enclosed space is removed, it must be determined that removal can be done safely and that the condition of the electrical facilities contained therein is sufficient to allow unrestricted access and emergency rescue. The initial inspection must be conducted by a ***qualified*** Con Edison employee or equivalently trained individual and must include:

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1) Testing for stray voltage on the frame, cover, or grating, in accordance with OJT ELE0020.

2) Checking whether the cover is above “normal”, expected temperature.

3) Gradually loosening the cover if it is fastened in place, to release any residual pressure.

4) Determining whether there might be a hazardous atmosphere in the space, or whether conditions at the site could cause a hazardous atmosphere, such as an oxygen deficient or flammable atmosphere to develop within the space. This includes the oxygen level, presence of a flammable atmosphere, carbon monoxide levels, and if applicable, other toxic contaminants. Where vented manholes are present, the vent holes must be used to test the atmosphere. If an atmosphere is potentially in the flammable range or above the upper explosive limit and if it is determined that the cover must be removed, it must be done without creating a spark.

Any conditions making it unsafe to remove the cover must be eliminated before the cover is removed (that is, reduced to the extent that it is no longer unsafe). [3] R/P

4.3.2 Removal/Opening of the Cover

Appropriate tools (manhole hooks, bars, etc.) must be used to remove covers from subsurface structures. Removed covers must be place in locations that will not hinder traffic or pose a tripping hazard. When covers are removed from electrical enclosed spaces, a manhole guard consisting of a railing with appropriate toe guards, temporary cover or other barrier must be installed promptly to prevent an accidental fall through the opening and protect employees working in the space. [4] R

> **NOTE:** If, fire, smoke, explosion, or other abnormalities indicative of cable/component failure are observed, see Section 4.4.8 before approaching the trouble structure.

4.3.3 Defective Primary Cable

Where a cable in a manhole has one or more abnormalities that could lead to or that could be an indication of an impending fault, the defective cable must be de-energized before an employee may enter the manhole. This is indicated by a D-Fault tag hung in the chimney of the structure. The latest version of EO-1184, *Identifying Cable And Splice Abnormalities On Distribution Feeders* or CE-TI-6832, *Procedure For A Quick Visual Inspection (QVI) on the 69 KV and 138 KV Low and Medium Pressure Insulating Fluid Filled Cable Systems*, must be followed in all cases involving D-Faults. Abnormalities, such as oil or compound leaking from cables or joints, broken cable sheaths or joint sleeves, hot localized surface temperatures of cables or joints, or joints that are swollen beyond normal tolerance are presumed to lead to or be an indication of an impending fault. [5] R

4.4 ATMOSPHERIC TESTING

Atmospheric testing is required prior to space entry for the following reasons:

- To evaluate the hazards and verify that acceptable conditions for entry exist.
- To ensure that acceptable conditions are maintained during the entry work.

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4.4.1 Initial Instrument Checks

An atmospheric monitor must be available at the site with a functioning pump or pump adapter and sufficient length of tubing to reach the bottom of the structure. Prior to testing the atmosphere of the structure, the following steps are required:

- Condition Check - Turn on the monitor to confirm working condition, and to confirm sufficient charge for the scheduled work (or confirm that a charger is available and can be used to ensure continuous monitoring during entry period(s).

- Fresh Air Check - Check the atmospheric reading in clean air (not inside the structure, and away from any vehicle exhaust or smoke) for each sensor. Confirm that the readings fall within the tolerances of

  Oxygen – 20.6% to 21.2%
  Carbon Monoxide - -5 ppm to 5 ppm
  LEL - -3.0% to 3.0%
  H2S (if installed) - -2.0 to 2.0 ppm

  If not, secure a different instrument or recalibrate that instrument, and recheck.

- Pump Integrity Check - With the pump running and hose attached, block the end of the hose with your thumb or finger. Within a few seconds the "pump flow fault" alarm should trigger, indicating that no air can flow as your pump and hose have no leaks. You must confirm that this triggers the pump flow fault before proceeding.

4.4.2 Order of Testing

All structures must be tested according to Attachment 1 prior to entry.

The internal atmosphere must be tested using an approved, properly calibrated Atmospheric Testing Device, in the following sequence:

- Oxygen (acceptable criteria between 19.5 and 23.0%). Oxygen monitoring equipment must be set to alarm if the oxygen content falls below 19.5 percent, or increases above 23.0 percent.
- Flammable gases and vapors (acceptable criteria less than 10% of the lower explosive limit (LEL), i.e., a reading of less than 0.5% as calibrated against methane.
- Carbon monoxide (CO) (acceptable criteria less than 35 parts per million [ppm]).
- Tests for toxic vapors and gases, if necessary. Entry level for toxic substances must not exceed the associated OSHA Permissible Exposure Limit (PEL), regardless of the anticipated length of entry. If hydrogen sulfide (H2S) is present, follow GEHSI S17.01.02.

The readings will be documented including the time and results.

For entry into pipe type feeder manholes that are connected to sulfur hexafluoride (SF_6) equipment or manholes containing sulfur hexafluoride (SF_6) switches, the ChemLab must be contacted to perform the monitoring if there has been a fault on the feeder or equipment (as per GEHSI S17.01.03, *Entry Into Subsurface Structures Containing SF6 Potheads*, 17.01.04, *Entry*

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into SF6 Switch Structures, and 17.01.05*, Testing, Ventilation, and Monitoring Subsurface Structures*).

Where hazardous atmospheres are suspected, it is permissible to "pre-test" the space with an instrument not approved per section 4.4.3 for one or more concerns. Pre-testing is desirable to minimize the potential for damaging a space entry gas detector through overexposure. Regardless of the results and actions of any such pretest, proper testing for all concerns using an approved instrument must be performed prior to actual space entry. [6] R/P

4.4.3 Stratified Atmospheres

Following initial testing from outside the space, the atmosphere must be tested a distance of approximately four feet in the direction of travel and to each side during descent. If a sampling probe is used, the entrant's rate of progress must be slowed to accommodate the sampling speed and detector response. [7] R

4.4.4 Space Entry Gas Detector Requirements

Pre-entry atmospheric testing, and any required during-entry atmospheric testing, must only be performed using a gas detector approved by Corporate EH&S for space entry testing in accordance with CEHSP S09.03, *Preliminary Assessment and Approval of New EH&S-Related Equipment, Supplies and R&D Services*. Approved instruments must be initially calibrated by Technical Services, and must be recalibrated at least once every 90 days. Instruments with remote calibration procedures accepted by Safety & Industrial Hygiene and Technical Services can be calibrated locally; Technical Services must calibrate all other instruments. All gas detectors must have the calibration due date clearly indicated and must not be used if this date is not clearly visible. Calibration due date may be indicated by a sticker attached by Technical Services or displayed on the instrument's screen where possible.

Only personnel who have current training on the use of space entry gas detectors may use them in the field or be assigned duties that may require their use in emergency situations. Contractors must use instrumentation that meets the OSHA requirements they must also calibrate the equipment in accordance with the manufacturers instructions. [8] R/P

4.4.5 Approved Equipment

Company personnel must use EH&S-approved atmospheric monitoring equipment for compliance with the testing requirements of this CEHSP. The Drager Miniwarn and Xam-7000 units are approved for use by company personnel. Contractors may use equipment of their choosing provided the devices are appropriate for meeting the testing requirements of this CEHSP, in proper working order, and calibrated in accordance with the manufacturer's instructions. [9] P

4.4.6 Hazardous Atmosphere

Employees must not enter any enclosed space that contains a hazardous atmosphere, unless the entry is performed in accordance with CEHSP S16.00, *Permit-Required Confined Space Program.* [10] R

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4.4.7 Con Edison Initial Entry and Visual Inspection

Once the structure is initially entered, a visual inspection must be conducted for exposed live conductors, improperly sealed cable ends, visual burnouts, structural damage, D-Fault tags, environmental tags, and excessively long cable ends that could contact the structure cover/grating or metal frame. The visual inspection must be documented. In addition, abnormalities, such as oil or compound leaking from cable or joints, broken cable sheaths or joint sleeves, hot localized surface temperatures of cables or joints, or joints that are swollen beyond normal tolerance are presumed to lead to or to be an indication of an impending fault. EO-1184, *Identifying Cable And Splice Abnormalities On Distribution Feeders* or CE-TI-6832, *Procedure For A Quick Visual Inspection (QVI) on the 69 KV and 138 KV Low and Medium Pressure Insulating Fluid Filled Cable Systems,* must be followed to determine when a cable must be de-energized for work in a manhole. If personnel note a "D" Fault, they must exit the structure immediately and report their findings in accordance with EO-1184 or CE-TI-6832. If a D-Fault tag, environmental tag, or any unsafe condition is found, further steps may only be taken with consent and advice of the control center and/or field supervisor. Cable inspections are not required for enclosed spaces where electrical equipment has not been previously tied into the system or for service boxes with no primary cable. [11] P

4.4.8 Entry by Con Edison Personnel Not Qualified for Electrical Work, Contractors, or Public Improvement Personnel

If entry takes place immediately after the initial inspection (see Section 4.4.6) a follow-up inspection is not required provided that the Con Edison Inspector or the contractor supervisor were on location during the initial inspection by the qualified electrical worker. If entry by non-qualified personnel (i.e., Con Edison employees not qualified for electrical work, contractors, and public improvement personnel) is not immediate but takes place within 72 hours of the initial inspection, a "follow-up inspection" must be conducted prior to each entry. The follow-up inspection must be conducted by a qualified person (Con Edison or contractor trained by Con Edison) involved in the work and include:

1) Verification that the initial inspection was performed in the specified time frame.

2) Testing for stray voltage by a qualified Con Edison employee or qualified contractor.

3) Completion of atmospheric testing as outlined in this section

4) Determination that it is safe to enter the space.

5) A visual inspection for any abnormalities previously defined.

6) Communication of inspection results and hazards to the Con Edison inspectors and the contractor supervisor.

If entry is delayed past the 72 hours, the initial inspection must be repeated per Section 4.4.6. Qualified telecommunication employees and their contractors accompanied by qualified Con Edison personnel do not need to repeat the initial inspection until 30 days has expired. Con Edison personnel not qualified for electrical work may only enter after the "follow-up" inspection is conducted by qualified personnel. Follow-up inspections must be documented. Service boxes without primary service are exempt from the initial inspection (Section 4.4.6), however, they must have the equivalent of the "follow-up inspection". This section does not apply to enclosed

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spaces or trenches where electrical equipment has not been previously tied into the system. [12] P

4.4.9 Burnouts or Electrical Failure

Only Con Edison qualified employees are authorized to complete the work identified in this paragraph. If evidence is present of cable or component failure, fire, smoke, explosion, or other abnormalities, additional PPE in the form of protective hood (C/S 684-0755) and goggles (C/S 689-3952) must be worn prior to approaching the cover and subsequent work until the burnout has been cleared. Employees responding to burnouts may remove the cover if it can be done safely. After removal of the cover, the employees must remain a safe distance away for a period of 10 minutes in the absence of a flare-up. If a flare-up occurs, the employee must remain a safe distance away until the burning stops. The hose of a power ventilator may be directed into the opening if the hose can be placed safely. After a burnout has been cleared (burnt apart or cut), the structure must be ventilated to remove gases and odors created by the burnout. [13] P

If the trouble exposure is associated with damaged primary components or cable, the hood and goggles are required at all times while in proximity to the structure until the component/cable is grounded.

4.4.10 Attendants

While work is performed in an electrical enclosed space, an attendant must always be available within oral and/or visual contact of personnel in the structure in order to render emergency assistance. The attendant is not precluded from performing other duties outside the electrical enclosed space if these duties do not distract the attendant from monitoring employees within the space. The duties of the attendant are outlined in the applicable OJT. The attendant must not be distracted from his/her duties by engaging in such activities as speaking on a cell phone, text messaging or use of other handheld devices. Other than for performing a rescue, one person must be present outside the structure to perform the attendant duties. This does not preclude more than one person entering the structure. An attendant is not precluded from reaching into an underground structure to hand an entrant tools or other job materials so long as only the hands/arms break the entry plane.

Prior to an attendant entering the space to perform rescue, he/she must notify emergency rescue support. Attendants must be trained in first aid, cardiopulmonary resuscitation (CPR), and rescue. [14] R

4.4.11 Personal Protective Equipment

The minimum personal protective equipment for Con Edison employees, contractors, and visitors for work covered in the scope of this procedure are safety shoes, hardhat, eye protection, and FR clothing (where electrical flash hazards exist, or hot work operations are conducted). If working to clear a burnout or electrical failure, see the personal protective equipment requirement in Section 4.4.8. The FR clothing requirements are outlined in CEHSP S05.03, *Personal Protective Equipment: Protective Clothing*. Entrants and attendants are required to wear a retrieval harness at all times during entry activities in underground electric distribution structures. For work in excavations that exceed 48 inches in depth and contain energized conductors (either direct buried or in ducts), entrants and attendants must wear harnesses if the work task has the potential to contact energized conductors (i.e. breaking out a manhole/service box or breaking out a concrete encased duct bank containing live electrical

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facilities). Harnesses are not required in underground electric distribution structures when the cables are not connected to the system (i.e., newly installed and not having been connected to the system yet). [15] R

4.5 MONITORING AND VENTILATION

4.5.1 Monitoring

If flammable gases or vapors or CO are detected at the alarm level or if oxygen increases/decreases beyond alarm levels, forced-air ventilation must be used during the entire period of entry to maintain oxygen at a safe level (between 19.5% and 23.0% oxygen), ensure that the concentration of combustible gases and vapors at less than 10% of the LEL (0.5% as calibrated against methane) and concentrations of CO at less than 35 ppm. If combustible gases are vapors are detected, the local control center must be notified immediately.

Continuous monitoring must be conducted to ensure that any increase in the concentration of flammable gases or vapors and/or CO that occurs is detected. This monitoring shall be conducted at a height of approximately 4 feet above the entrant(s) respective walking/working surface (s). If the structure (such as a service box) is less than 4 feet deep monitoring shall be conducted at approximately one foot below street level.

Monitoring results at the time of initial entry into the structure must be documented. Under no circumstances will a monitor be left in the structure when employees exit. Should the enclosed space be exited during the shift there is no need to repeat the initial entry monitoring and document the results provided continuous atmospheric monitoring is performed the entire shift, and the entrant and/or attendant do not leave the work zone. If continuous monitoring inside the structure is stopped for any reason during the shift (e.g. to replace battery, device removed from structure when employee exits), initial entry monitoring must be repeated and documented.

Structures must be re-tested for safe atmosphere after de-watering.

Continuous forced-air ventilation is required during hot work while making/breaking lead cable splices. For additional information on Con Edison procedures for addressing these hazards, refer to CEHSP S10.00, *Lead Management Program,* and CEHSP S15.00, *Welding, Cutting And Other Hot Work Operations.* [16] R/P

4.5.2 Ventilation

Ventilation with forced air may be necessary to eliminate or control hazardous gases or fumes that may be present in electrical enclosed spaces and to maintain an adequate supply of oxygen. The use of power ventilation, however, does not eliminate the need to perform continuous atmospheric monitoring. Personnel who enter electrical enclosed spaces for cable identification, inspection, or other minimal time periods must first perform initial atmospheric monitoring and maintain continuous monitoring throughout the entry to ensure that an enclosed atmosphere is safe.

If at any time a test indicates an unsatisfactory atmosphere, leave the manhole or vault at once. Operate the power ventilator for 10 minutes and then take a second test. (For more guidance on proper ventilation techniques refer to ELE1010). Take this test away from the output of the power ventilator. If this test indicates a satisfactory condition, the subsurface enclosure may be

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entered. If the unsatisfactory condition persists, report the matter to the supervisor or local control center. Only Con Edison-approved power ventilation equipment may be used. [17] R/P

Specific Ventilation Requirements

If continuous forced-air ventilation is used, operation of the system must begin before entry is made, and operation must be maintained to ensure that a safe atmosphere exists before employees are allowed to enter the work area. The forced-air ventilation must be directed to deliver air into the immediate area where employees are present within the electrical enclosed space and must continue until all employees leave the enclosed space. [18] R

Air Supply

The air for the continuous forced-air ventilation must be supplied from a clean source and must not increase the hazards in the electrical enclosed space. [19] R

4.6 OPEN FLAMES

If open flames are used in electrical enclosed spaces, a test for flammable gases and vapors must be made immediately before the open flame device is used (Continuous monitoring satisfies this requirement). In New York City, a certificate of fitness is required as outlined in CEHSP S14.03, *FDNY Certificates of Fitness*. [20] R

4.7 ACCESS

Employees must not climb into or out of manholes or vaults by stepping on cable or hangers. Only approved ladders that extend three feet above the surface may be used (except for fixed ladders found in vault type structures). [21] R A ladder must be placed in the electrical enclosed space at all times during work in the space, unless it is impractical due to the position of the ladder in relation to the work tasks in the structure. If impractical, then the ladder must be positioned within reaching distance of the attendant at the entrance into the space.

Note: Rack arms, stanchions, and cable hangers are designed to support the weight of cable and joints only. These items must not be used for any other load-bearing purposes.

4.8 COMMUNICATIONS

Reliable communications (visual, voice, signal line, or two-way radio) must be maintained among all employees involved in the job. If reliable communications cannot be maintained, the entry must be discontinued. The entry may continue when a reliable communication mechanism is established. [22] R

4.9 LOWERING/LIFTING EQUIPMENT

Equipment used to lower/lift materials and tools into manholes or vaults must be capable of supporting the weight to be lowered and must be checked for defects before use. Before tools or materials are lowered into a manhole or vault, employees working in the space must be clear of the area directly under the opening. [23] R

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4.10 DUCT RODS

If duct rods are used, they must be installed in the direction presenting the least hazard to employees. An employee must be stationed at the far end of the duct line being rodded to ensure that the required minimal approach distances are maintained from exposed energized parts. [24] R

4.11 CABLES

Energized cables must be carefully inspected for defects before they are moved. Energized primary cable must only be inspected/handled/moved by qualified Con Edison employees or qualified contractors. Energized joints must only be handled by Con Edison personnel or contractors fully qualified by 29 CFR 1910.269. Energized secondary cable must only be inspected/handled/moved by or under the direction of qualified Con Edison employees, or qualified contractors. Refer to EO-10130 (distribution cable) for cable moving procedures.

When multiple cables are present in a work area, the cable to be worked must be identified by electrical means, unless its identity is obvious by reasons of distinctive appearance or location or by other readily apparent means of identification. Cables other than the one being worked must be protected from damage.

When work is performed on buried cable or on cable in manholes metallic sheath bonding must be maintained or the cable sheath must be treated as energized. [25] R/P

4.12 USE OF EQUIPMENT BY CON EDISON EMPLOYEES AND/OR CONTRACTORS

Con Edison employees may use the contractor's ladders or rescue device, if visually inspected before use, and found to be in proper working order. Only Con Edison atmospheric monitoring equipment may be used by or for Con Edison employees. Contractors may use Con Edison equipment with prior approval from Con Edison personnel supervising the work. [26] P

4.13 TRAINING

Con Edison employees and contractors who enter electrical enclosed spaces for the purpose of conducting physical work, or who serve as attendants, must be trained as required for the reason for entry, including the following:

- Applicable work procedures
- First aid/CPR (SAF 0021)
- Electrical enclosed space entry procedure
- Electrical enclosed space rescue
- The hazards of electrical enclosed space entry
- The proper use of forced-air ventilation for manholes, vaults, or similar structures
- Procedures for clearing underground structures of flammable gas and vapors

All of the above topics (except first aid/CPR) are covered in OJT ELE1010, Enclosed Space Entry and Rescue and in various skill courses.

Employees subject to entering manholes where SF_6 may be present must receive the following additional training:

- Properties of SF_6
- Nature and composition of the solid and gaseous decomposition products
- Appropriate precautions to be taken. [27] R/P

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4.14 ELECTRICAL ENCLOSED SPACE RESCUE

Examples of situations that may require rescue or resuscitation include but are not limited to:

- Illness (of a degree to preclude self-rescue).
- Injury (burns or fractures).
- Unconsciousness (physical blow, electric shock, or heart attack).

Retrieval equipment must be inspected to ensure proper function, and be available outside of the truck at the job site prior to the start of work. Before the actual work tasks begin, the retrieval device must be set up at the space entrance, or nearby so that employees can be promptly and safely extracted from the space. The placement of the retrieval device will be determined during the job briefing, based on potential hazards in the space and around the work area. For structures less than 48" in depth, the retrieval device does not have to be set up. When placing grounds on a transformer where the top of the transformer is within 48" of the grating, the retrieval device does not have to be set up.

The preferred placement of the self-supporting extraction device is always at the structure opening, in position to facilitate immediate use for rescue. If the work area cannot be configured to support this placement, the device may be positioned elsewhere inside the work area, but personnel must ensure that they have identified the location where the device would be set up to facilitate rescue, and maintain that area free of material/equipment.

A ladder must be placed in the electrical enclosed space at all times during work in the space, unless it is impractical due to the position of the ladder in relation to the work tasks in the structure. If impractical, then the ladder must be positioned within reaching distance of the attendant at the entrance into the space.

For multiple entrants in an enclosed space, the same rescue method shall be employed for each person. If both entrants are simultaneously injured, the rescue priority will be based upon first aid training.
[28] R

5.0 DEFINITIONS

Attendant: An individual authorized by the management of his/her department who is stationed outside an enclosed or other space to monitor the authorized entrants and perform all duties assigned in this program, including providing assistance to employees inside the space.

Confined Space: A space that:

- Is large enough and so configured that an employee can bodily enter and perform assigned work, and
- Has limited or restricted means for entry or exit (for example, tanks, vessels, silos, storage bins, hoppers, vaults, and pits are spaces that may have limited means of entry), and
- Is not designed for continuous employee occupancy.

Confined spaces include, but are not limited to pits, sumps, sewers, manholes, wells, tanks/tankers, boilers and pressure vessels, other vessels, and equipment.

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Electrical Enclosed Space: A working space, such as a manhole, vault, tunnel, service box, or shaft, used for the operation and maintenance of electric power generation, transmission, and distribution lines and equipment. An electrical enclosed space has a limited means of egress or entry, and is designed for periodic employee entry under normal operating conditions. Under normal conditions, an electrical enclosed space does not contain a hazardous atmosphere, but may contain a hazardous atmosphere under abnormal conditions.

Gas Enclosed Space: A working space used solely for the maintenance and distribution of natural gas lines and equipment, such as a manhole, vault, tunnel, or shaft. A gas-enclosed space has a limited means of egress or entry, and is designed for periodic employee entry under normal operating conditions. Under normal conditions, a gas-enclosed space does not contain a hazardous atmosphere, but may contain a hazardous atmosphere under abnormal conditions.

Hazardous Atmosphere: An atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self-rescue (that is, unaided from an enclosed space), injury, or acute illness from one or more of the following causes:

- Flammable gas, vapor, or mist in excess of 10% of its ***lower explosive limit [LEL]*** (0.5% as calibrated against methane).
- Atmospheric oxygen concentration below 19.5% or above 23.0%.
- Atmospheric concentration of any substance for which a dose or a permissible exposure limit is published in Subpart G, Occupational Health and Environmental Control, or in The Occupational Safety and Health Administration General Industry Standard (29 CFR 1910.1000) and which could result in employee exposure in excess of its dose or permissible exposure limit.
- Any other atmospheric condition that is ***immediately dangerous to life or health (IDLH).***

Immediately Dangerous to Life or Health (IDLH): Any condition that poses an immediate or delayed threat to life or that would cause irreversible adverse health effects or that would interfere with an individual's ability to escape unaided from a dangerous atmosphere.

Lower Explosive Limit (LEL): The lower limit of flammability of a gas or vapor at ordinary ambient temperatures expressed by a percentage of the gas or vapor in air by volume.

Permit-Required Confined Space: A confined space that has one or more of the following characteristics:

- Contains or has the potential to contain a hazardous atmosphere.
- Contains a material that has the potential for engulfing an entrant.
- Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor that slopes downward and tapers to a smaller cross section.
- Contains any other recognized serious safety or health hazard.

Qualified: Qualified is defined in this CEHSP with respect to employees, workers, or contractors as being trained and knowledgeable in the procedures, potential hazards, and appropriate safety measures relevant to the work the person is required to perform.

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6.0 RESPONSIBILITIES

Chem Lab: The Chem Lab is responsible for providing clearances for entering an enclosed space that may contain SF_6 gas or SF_6 by-products.

Electric Construction Group: The Electric Construction Group is responsible for installing and maintaining caution signs for SF_6 enclosed spaces.

Employees: Con Edison employees working in subsurface structures are responsible for following the requirements of this CEHSP and for attending required training.

Environment, Health, and Safety (EH&S): EH&S performs the following functions:

- Reviews applicable regulations and ensures that procedures meet all regulatory requirements.
- Revises procedures as applicable.
- Distributes updates and changes.
- Reviews training prepared by The Learning Center.
- Provides technical assistance to line management and the field.

In addition, the Director of EH&S Safety and Industrial Hygiene provides advice and counsel on this procedure.

Facility, Site, EHS; or Field Manager Responsible for Compliance: The Con Edison designated individual within each operating department who is responsible for ensuring compliance with federal, state, and local regulations, and this procedure.

Law Department: The Law Department assists and provides guidance to EH&S by reviewing changes to these procedures in light of all applicable statutes and regulations to ensure that the procedures meet all legal requirements.

Operating Departments: Unless otherwise indicated, operating departments (Customer Operations, Electric, Gas, Purchasing and CFS, Steam, and Systems & Transmission Operation [S&TO]) are responsible for compliance with federal, state, and local regulations, and this procedure.

Supervisors: Supervisors are responsible for ensuring that personnel follow proper procedures and for performing necessary training.

7.0 REFERENCES

4.1 JOB BRIEFINGS

[1] 29 CFR 1910.269(c) (job briefing). NOTE: The cited regulation does not require that completion of job briefings be documented. Con Edison requires such documentation as a matter of policy.

4.2 VEHICULAR OR PEDESTRIAN TRAFFIC

[2] 29 CFR 1926.200 (accident prevention signs and tags).

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4.3 PRE-ENTRY INSPECTION

[3] 29 CFR 1910.269(e)(4) (evaluation of potential hazards). NOTE: The cited regulation discusses potential hazards relating to atmospheric pressure, temperature differences, and hazardous atmosphere generally. Con Edison included additional evaluation measures as a matter of policy to enhance employee safety.

[4] 29 CFR 1910.269(e)(5) (removal of covers). NOTE: The cited regulation addresses the removal of covers generally; Con Edison requires the use of appropriate tools as a matter of policy.

[5] 29 CFR 1910.269(t)(7) (defective cables). NOTE: The cited regulation includes exceptions to the requirement that defective cable be de-energized before employees enter a manhole. Con Edison does not allow these exceptions as a matter of policy. Also, the CEHSP identifies Con Edison-specific procedures addressing D-Faults.

4.4 ATMOSPHERIC TESTING

[6] 29 CFR 1910.269(e)(8) (calibration of test instruments); 1910.269(e)(9) (testing for oxygen deficiency); 29 CFR 1910.269(e)(10) (testing for flammable gases); 29 CFR 1910.269(x) (definition of hazardous atmosphere). NOTE: The cited regulations address atmospheric testing generally. Con Edison has adopted additional testing requirements, including a requirement that test results be documented, as a matter of policy.

[7] 29 CFR 1910.146, Appendix B, Sec. 4 (testing stratified atmospheres).

[8] NOTE: The electrical enclosed space regulations do not address use of space entry gas detectors except as identified in Note 6 above. Con Edison has developed these procedures for calibration and use of gas detectors as a matter of policy.

[9] NOTE: The electrical enclosed space regulations do not address approval of space entry gas detectors and use of detectors for survey purposes. Con Edison has developed these procedures as a matter of policy.

[10] 29 CFR 1910.269(e)(6) (hazardous atmosphere).

[11] NOTE: The electrical enclosed space regulations do not require documented visual inspections once personnel enter an electrical enclosed space. Con Edison has developed these procedures to ensure the safety of its employees.

[12] NOTE: The electrical enclosed space regulations do not contain specific procedures addressing entry of nonqualified personnel. Con Edison has developed these procedures to ensure the safety of Con Edison personnel not qualified for electrical work, contractors and public improvement personnel entering such spaces.

[13] NOTE: The electrical enclosed space regulations do not contain special procedures to address burnouts or electrical failures. Con Edison has developed these procedures to ensure the safety of employees responding to such incidents.

[14] 29 CFR 1910.269(e)(2) (attendant training); 1910.269(e)(7) (attendants generally); 1910.269(t)(3) (attendants for manholes).

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[15] 29 CFR 1910.269(g) (requires PPE to meet requirements of 40 CFR Part 1910, subpart I).

4.5 MONITORING AND VENTILATION

[16] 29 CFR 1910.269(e)(11) (ventilation and monitoring); 1910.269(e)(12) (specific ventilation requirements). NOTE: The cited regulations address ventilation and monitoring generally. Con Edison has adopted additional requirements, including a requirement that monitoring be documented, as a matter of policy.

[17] See Note 16 above.

[18] 29 CFR 1910.269(e)(12) (specific ventilation requirements).

[19] 29 CFR 1910.269(e)(13) (air supply).

4.6 Open Flame

[20] 29 CFR 1910.269(e)(14) (open flames). See CEHSP S14.03, *FDNY Certificates of Fitness* for additional requirements.

4.7 ACCESS

[21] 29 CFR 1910.269(h)(1) (ladders, platforms, step bolts, and manhole steps); 1910.269(t)(1) (access).

4.8 COMMUNICATIONS

[22] 29 CFR 1910.269(t)(3)(iv) (reliable communication).

4.9 LOWERING EQUIPMENT

[23] 29 CFR 1910.269(t)(2) (lowering equipment into manhole).

4.10 DUCT RODS

[24] 29 CFR 1910.269(t)(4) (duct rods).

4.11 CABLES

[25] 29 CFR 1910.269(t)(5) (multiple cables); 1910.269(t)(6) (moving cables); 1910.269(t)(8) (sheath continuity). NOTE: The CEHSP includes Con Edison-specific details regarding cable moving.

4.12 USE OF EQUIPMENT BY CON EDISON EMPLOYEES AND/OR CONTRACTORS

[26] NOTE: These procedures clarify when Con Edison employees and contractors can use each other's equipment.

4.13 TRAINING

[27] 29 CFR 1910.269(a)(2) (training generally); 1910.269(e)(2) (enclosed space training, including attendants). NOTE: The training outlined in the CEHSP was developed to

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satisfy the requirements of 29 CFR 1910.269 and other regulations applicable to employees entering electrical enclosed spaces.

4.14 ELECTRICAL ENCLOSED SPACE RESCUE

[28] 29 CFR 1910.269(e)(3) (rescue equipment).

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REVISION HISTORY

Revision Date	Revision #	Summary of Change	Author
1/3/2014	18	Clarified personal protective requirements for individuals that will be in proximity to underground structures containing faulted primary equipment. (see 4.3.2, and 4.4.8) Updated atmospheric monitoring requirements to reflect addition of the Drager Xam-7000 as an approved device, and clarified existing contractor requirements (see 4.4.4) Added a specific example to illustrate a requirement for additional job briefings during ongoing work. (see 4.1)	G. Slintak
4/23/2014	19	Added (Section 4.4.1 Initial Instrument Checks) the requirement for a fresh air test as well as an integrity test on the sampling hose to the procedure.	K. Reinhart

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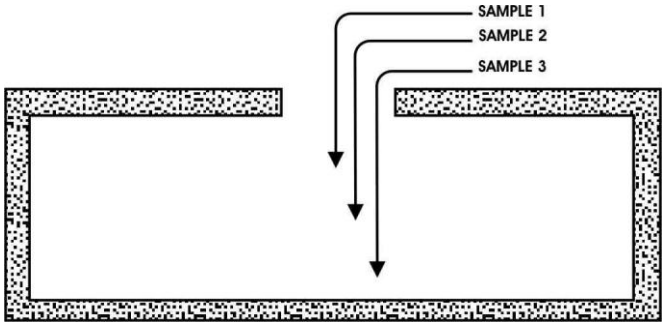
ATTACHMENT 1

SAMPLING PROCEDURE FOR MANHOLE ATMOSPHERES

Detector must first be operated in fresh air. Initial test is for oxygen deficiency followed by a gas detection test.

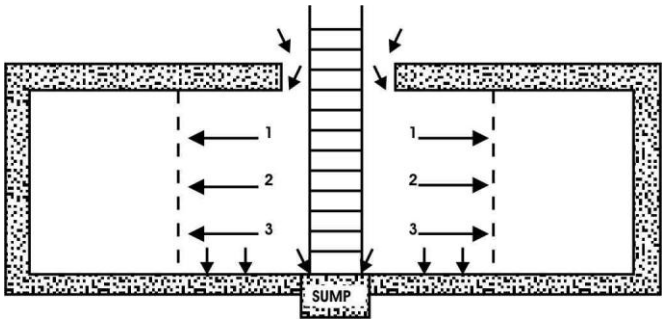
STEP 1

Observations of the atmosphere in the manhole shall be made at a level approximately two feet from the top, near the middle of the manhole, and at a level near the bottom. If water is present in the manhole, the latter observation must be made at a level just above the surface of the water. Care must be taken not to immerse the end of the sampling hose in water. When exposed to water, the filter at the end of the sampling hose will automatically close to prevent any material or gas from entering the instrument. This action will also render the instrument inoperable until the filter is replaced. To prevent erroneous readings, operating difficulties and maintenance problems, always use the probe and filter supplied with each gas detector.



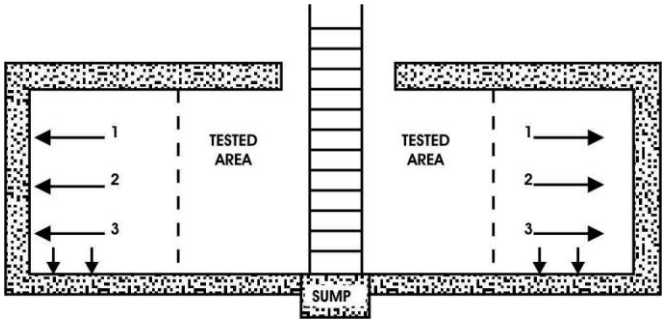
STEP 2

Insert ladder into structure and take sample around casting and chimney. While descending the ladder, take samples to the right and left for three levels



STEP 3

Check the remainder of the manhole from the tested area

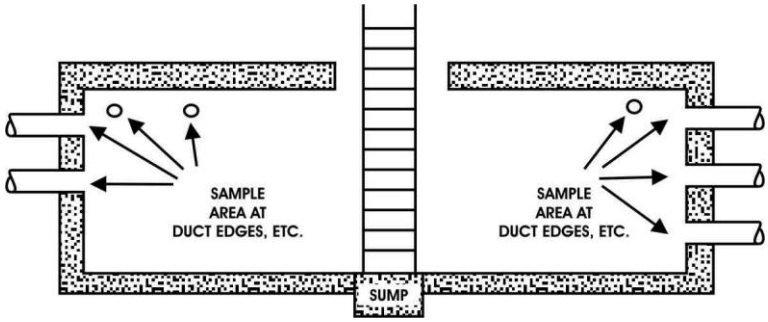


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STEP 4

Check the remaining interior of the structure at corners, cracks, and other irregularities. Duct edges shall also be checked without removing duct seal, foam, cement, or other packing materials. If possible, readings shall also, be performed up the ducts a distance of approximately 2 inches past the plane of the manhole wall.



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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
CORPORATE ENVIRONMENTAL, HEALTH AND SAFETY PROCEDURE

CESHP S31.01 – Protection of Adjoining Property
Revision Date: 06/20/2014 Effective Date: 10/01/2014

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1.0 PURPOSE

IT IS THE POLICY OF CON EDISON TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO site safety and the protection of all adjoining public and private property. All properties adjacent to Con Edison worksites are to be protected from damage arising from and during construction, alteration, remodeling, demolition and excavations.

2.0 APPLICABILITY

This Corporate Environmental, Health and Safety Procedure (CEHSP) applies to company and contractor forces that perform work adjacent to public or private property, including, but not limited to, sidewalks and streets.

3.0 INTRODUCTION

Under New York City and state law, construction, alteration, remodeling, demolition, or excavations performed on a site or in a public way must not adversely affect adjacent properties or infrastructure. To satisfy this mandate, Con Edison requires that company or contractor forces to protect any part of an adjacent property such as rooftops, facades, balconies, foundations, party walls, chimneys, skylights, and roofs and control hazards that could affect the property's physical or structural integrity.[1]

4.0 COMPLIANCE REQUIREMENTS

4.1 ADMINISTRATION

4.1.1 License to Enter Adjoining Property

Before any work activity begins, the company or contractor forces must obtain permission to enter an adjoining property to assess the viability and integrity of existing conditions for the purpose of protecting such property. If the owner does not consent to enter into his or her property, contact the Law Department. No work can start unless:

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- An assessment is conducted;
- A protection plan is developed detailing necessary adjoining property safeguards; and
- Protection procedures are installed and implemented.[2]

4.1.2 Physical Examination

Once permission to enter the adjoining property has been obtained, a physical examination of the property must be conducted by the company's or contractor's ***qualified person*** before work begins and at reasonable periods during the progress of the work. Observed conditions must be recorded by the qualified person and the records must be made available to the New York City Department of Buildings (DOB) upon request. Any adverse condition that could affect the immediate integrity of a structure must be referred to the DOB, Con Edison, and the occupants of the affected structure. [3]

4.1.3 Pre-Construction Survey

Excavation work to a depth of 5 to 10 feet within 10 feet of an adjacent building or excavation work to a depth of over 10 feet anywhere on the site may not start until the qualified person has documented the existing conditions of all adjacent buildings in a pre-construction survey. [4]

4.1.4 Protection of Trees

Written notification must be made to the New York City Department of Parks and Recreation (NYCDPR) at least 48 hours prior to commencement of any proposed protection around trunks. [5]

Any construction work, excavation or demolition activities within the ***dripline*** of a ***City-owned tree*** require prior permit authorization from the NYCDPR. In order to obtain the necessary authorization(s), a report providing the information listed below must be submitted to the NYCDPR by a Certified Arborist. If assistance with obtaining a Certified Arborist is needed please contact the EH&S Sustainable Infrastructure group.

- Type of work activity (i.e., excavation, demolition).
- Species, caliber, location (on a design plan), and condition of each tree to be impacted.
- Construction methodology to be utilized for work within tree dripline.
- Pruning methodology if required for clearance.
- Tree protection method/plan showing how critical root zones, trunk, and canopy will be protected.
- Specify the number, exact locations, species, and installation details for all new trees.
- Full assessment of the plans including details such as foundation design and position, utility location and installation, scaffolding position, construction techniques, tree protection measures, and a post construction tree care prescription. [6]

The following activities are prohibited when working around trees:

- Dumping or mixing deleterious, caustic, or acid materials within 10 feet of a tree.
- Using salt for the removal of ice or snow and allowing it to run off or drain into a tree base well. [7]

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4.2 ADJOINING PROPERTY PROTECTION

4.2.1 Control of Water

Company and contractor forces must control water run-off and erosion during construction or demolition activities. If water is controlled or prevented from accumulating by the use of water removal equipment, the water removal equipment and operations must be monitored by a ***competent person*** to ensure proper operation. [8]

4.2.2 Excavation or Filling Operations Affecting Adjacent Property

Regardless of the excavation or fill depth, company or contractor forces must, at all times, preserve and protect from damage any adjacent structures. The following safeguards must be implemented during excavation:

- Where the level of the foundation of the adjoining structure(s) is at or above the level of the bottom of the new excavation, the vertical load of the adjoining structure must be supported by proper foundations, underpinning, or other equivalent means.

- Where the level of the foundation of the adjoining structure is below the level of the new construction or demolition, any increased vertical or lateral load on the existing adjoining structure caused by the new construction or demolition must be supported.

- Where the new construction or demolition will result in a decrease in frost protection, the existing foundation must be modified as necessary to restore the required frost protection. [9]

- Sidewalks, pavements, and appurtenant structures must not be undermined unless a support system or another method of protection is provided to protect from the possible collapse of such structures. Refer to CEHSP S13.00, *Excavation and Trenching* for additional information on excavations. [10]

4.2.3 Daily inspections

A competent person must perform daily inspections of excavations, the adjacent areas, and protective systems to look for evidence of a situation that could result in possible cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. The inspection must be conducted by the competent person prior to the start of work and as needed throughout the shift. Inspections must also be made after every rainstorm or other hazard increasing occurrence. Inspections must be documented and a record kept at the jobsite available to regulatory personnel and Con Edison. [11]

4.2.4 Party Walls

Where a party wall will be affected by excavation, regardless of the depth, the party wall must be preserved at the company's and/or contractor forces' expense.

Where an adjoining party wall is intended to be used as part of the project and the party wall is in good condition and sufficient for the uses of the existing and proposed buildings, the Company or contractor must protect the party wall and support it by proper foundations, so that it remains practically as safe as it was before the excavation was started.

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4.2.5 Underpinning

Company or contractor forces must undertake underpinning whenever it is necessary to preserve and protect an adjacent property.

If permission to enter the adjacent property cannot be obtained, contact the Law Department. No activity that would jeopardize either property can proceed until a plan to protect the adjoining property is developed by a registered professional engineer or architect and all responsible parties concur.[12]

4.2.6 Foundation Operations Affecting Adjacent Properties

Whenever subsurface operations are conducted that may impose loads or movements on adjoining property, such as driving of piles, compaction of soils, or soil solidification, the effects of such operations on adjoining property and structures must be monitored.

Where placement of a foundation will cause changes in the ground water level under adjacent buildings, the effects of such changes on the stability and settlement of the adjacent foundations must be investigated and provision must be made to prevent damage to such buildings. [13]

4.2.7 Monitoring of Vertical Elevations

Elevations of the adjacent buildings must be recorded by a Professional Engineer or a Registered Architect and monitored at regular intervals. [14]

4.2.8 Retaining Structures

When the ground on a property will be raised or lowered, a retaining structure must be constructed for the safe support of adjacent property, unless the bank between the adjacent property is maintained at a safe angle of repose. Any necessary retaining wall must be built and maintained jointly by the owners on each side, unless otherwise agreed to by both owners.

Any such retaining, standing partly on the land of each owner, may be removed by either owner when the original reason for the erection of the structure ceases to exist. [15]

4.2.9 Adjoining Walls

When construction or demolition operations expose or breach an adjoining wall, including load-bearing and non-load-bearing walls as well as party walls and non-party walls, the person causing the construction or demolition operation must, at his or her own expense, perform the following:

- Have a registered design professional investigate the stability and condition of the wall and take all necessary steps to protect such wall;

- Maintain all required fire exits and passageways or provide substitutions meeting the applicable requirements and codes;

- Cut off close to the walls all beams in party walls, remove stub ends without weakening existing masonry, clean beam pockets of loose mortar, bend over all wall anchors at the beam ends in the standing wall, and brick-up all open beam holes with sound brick and cement mortar;

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- During demolition operations, where the floor beams of the adjacent building bear on the party wall, ascertain that such beams are anchored into the wall and, where such anchorage is lacking, provide anchorage or otherwise brace the standing wall;

- During demolition operations, examine and monitor all non-load-bearing chimney breasts, projections, and any other debris exposed on party walls. Such items must be removed under the supervision of a registered design professional only if the stability of the adjacent building or structure will not be affected;

- Brick up all openings flush on the exterior side of the party wall; and

- Point and patch all masonry that is in poor condition. [16]

4.2.10 Weatherproof Integrity

Where the waterproof integrity of an adjoining wall or building has been impaired due to construction or demolition operations, company or contractor forces must provide all necessary measures to permanently waterproof the adjoining wall or building in order to restore the weatherproof integrity of such adjoining wall or building. Possible measures include, but are not limited to:

- Bending over and flashing all roofing material of adjoining buildings;

- Sealing and permanently waterproofing all doors or other openings in party walls;

- Sealing all cornices, where cut;

- Pointing and making waterproof any walls and parapets and any walls that have been disturbed;

- Removing all exposed furring, lath, and plaster on party walls; and

- Removing, replacing, and firmly anchoring any loose wall material. [17]

4.2.11 Operations above Adjoining Properties

Whenever a building is to be constructed or demolished above the roof of an adjoining building, the roof, skylights, or other roof outlets of the adjoining building must be protected from damage, and every reasonable means must be used to avoid interference with the use of the adjoining building during the course of construction or demolition. If permission to enter the adjacent property is needed and cannot be obtained, contact the Law Department. In no case may activity above an adjoining property proceed until an assessment, protection plan, and protections are in place. [18]

4.2.11.1 Protection of Roofs

Adjoining roof protection shall be secured to prevent dislodgement by wind. Where construction or demolition work occurs at a height of at least 48 inches above the level of the adjoining roof, adjoining roof protection shall consist of two (2) inched of flame-retardant foam under two (2) inched of flame-retardant wood plank laid tight and covered by flame-retardant plywood. The protection shall extend to a distance of at least 20 feet from the edge of the building being constructed or demolished. [19]

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4.2.11.2 Protection of Adjoining Equipment and Spaces

Whenever a major building is constructed or demolished, all mechanical, electrical, and similar equipment on the adjoining property that are within 20 feet from an unenclosed perimeter of the major building, as well as all publically accessible spaces on the adjoining property that are within 20 feet from an unenclosed perimeter of the major building, shall be protected from damage. [20]

4.2.11.3 Protection of Windows

Whenever exterior construction or demolition work occurs without an unenclosed perimeter, all windows on the adjoining property that face the construction or demolition work that are within 20 feet from an unenclosed perimeter, shall be protected from damage. Protection shall not be allowed to interfere where the window provides required means of lighting, ventilation, or egress. [21]

5.0 DEFINITIONS

City-owned tree: Any tree within the public rights-of-way, including all trees along a street, parkway, and within a City park.

Competent Person: One who is capable of identifying existing and predictable hazards in the surroundings, or working conditions that are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate the hazards.

Dripline: The ground area located directly under the outer circumference of the tree branches. This is where the tiny rootlets are located that take up water for the tree.

Party Wall: A wall common to two buildings.

Qualified Person: A person who, by possession of a recognized degree, certificate, or professional standing, or by extensive knowledge, training, or experience, has the ability to thoroughly understand the subject matter, the work, or the project.

6.0 RESPONSIBILITIES

Safety Administrator: The Safety Administrator at each facility is responsible for working with employees, supervisors, and the EH&S Health and Safety group.

Supervisors: Supervisors are responsible for ensuring that personnel follow the proper procedures.

7.0 REFERENCES

[1] Building Code of the City of New York 1 RCNY §3309.1

[2] Building Code of the City of New York 1 RCNY §3309.2

[3] Building Code of the City of New York 1 RCNY §3309.3

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[4] Building Code of the City of New York 1 RCNY §3309.4

[5] Building Code of the City of New York 1 RCNY §3309.11

[6] 56 RCNY §5

[7] Building Code of the City of New York 1 RCNY §3309.11

[8] Building Code of the City of New York 1 RCNY §3309.1 and
29 CFR §1926.651(h)(2)

[9] Building Code of the City of New York 1 RCNY §3309.4.1

[10] 29 CFR §1926.651(h)(3)

[11] 29 CFR §1926.651(k)(1)

[12] Building Code of the City of New York 1 RCNY §3309.4.2, 1 RCNY §3309.5, and 1 RCNY §3309.6

[13] 29 CFR §1926.651(i)(2)(iii)

[14] Building Code of the City of New York 1 RCNY §3309.6

[15] Building Code of the City of New York 1 RCNY §3309.7

[16] Building Code of the City of New York 1 RCNY §3309.8

[17] Building Code of the City of New York 1 RCNY §3309.9

[18] Building Code of the City of New York 1 RCNY §3309.10

[19] Building Code of the City of New York 1 RCNY §3309.10

[20] Building Code of the City of New York 1 RCNY §3309.13

[21] Building Code of the City of New York 1 RCNY §3309.14

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REVISION HISTORY

Revision Date	Revision #	Summary of Change	Author
06/20/2014	1	Periodic review completed with the following changes: • Removed references to "Corporate" EH&S; • Updated references to EH&S Departments; • Added Sections 4.2.11.1 Protection of Roofs, 4.2.11.2 Protection of Adjoining Equipment and Spaces, and 4.2.11.3 Protection of Windows; • Updated Section 7.0 References.	M. Bauer

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conEdison

Work Area Protection and Traffic Control

Field Manual



THE WAY WE WORK IS SAFELY

To All Con Edison Field Forces:

This is your field manual on Work Area Protection and Traffic Control. It is designed to help you achieve a safe work area for our employees, with limited obstruction to traffic, through the use of uniform traffic control devices. In addition, it provides protection for pedestrians and motorists.

This edition has been updated to comply with the current *Manual on Uniform Traffic Control Devices* (MUTCD). It is based on three fundamental principles:

- Protection for you and your coworkers while you work.
- Protection for motorists and pedestrians;
- Safe and expeditious movement of traffic around your work area.

Not all work sites, traffic, or pedestrian situations can be illustrated in this manual. Employees must apply the principles and tools covered in this manual to set up work area protection and traffic control devices with all applicable traffic regulations in mind.

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Practical and Procedural Considerations 1

Because of the vital nature of our jobs, we must gain access to areas where repair, maintenance, and construction are required. Providing a work area that is safe for everyone is of critical importance.

Basic Principles of Work Area Protection

Traffic conditions in our operating area make it necessary to plan protection for work areas to avoid vehicular and pedestrian traffic hazards, and safeguard the public and our employees.

The work area protection that you set up at the job site has two main goals:

- To provide suitable work area devices so pedestrians and drivers of vehicles are aware of work area boundaries;
- To protect you and your co-workers while you work.

In addition, when planning work area setups, an important company concern is to maintain good relations with the public while maintaining safety in the work area. Employees in the field help create goodwill by the way they conduct themselves, and by the way they arrange and maintain their work areas.

Con Edison's reputation as a good neighbor is important. Do your part to preserve it by always using the work area protection principles described in this document when you are on the job.

Plan the Work and Work the Plan

In order to work efficiently and to minimize possible disruptions for pedestrians and vehicular traffic, it's important to prepare in advance before arriving at a work location. Here are some factors to consider:

Scheduling: When scheduling street work, try to avoid hours of unusually heavy traffic.

Permits: Review the work and Department of Transportation (DOT) permit requirements before planning work. Follow DOT stipulations.

Requirements include:

- *Posting of permits to face the nearest curb line at the work area setup. Posted permits must provide the following information: name of the contractor, start and expiration dates, contact telephone number, permit number, and type of work (gas, steam, or electric system). Lettering must be 1 1/2 inches high;*
- Determining days and times to perform work;
- Securing permission for lane closings.

Efficient Deployment: Maintain street work areas only for as long as is necessary. Move in quickly and safely, do the job, and move out. Minimize obstruction and excessive exposure to traffic.

Materials: Before leaving the yard, review work orders and make sure that all equipment and supplies are available to complete the job as promptly as possible.

Evaluate the Work Area

Determine how existing conditions will affect the job, and how work area protection must be adapted to the location. The following must be considered:

Vehicular Traffic:

- Assess the volume and speed of traffic.
- Arrange in advance with the appropriate authority to shut down a traffic lane when work must be done at approaches to and exits from tunnels and bridges.
- Allow for the free passage of emergency vehicles, including fire engines and ambulances.

Pedestrian Traffic: Observe the pedestrian routes to crosswalks and bus stops.

Changes in Work Plan: Reassess protective devices and working conditions based on any changes in the traffic patterns or scope of work that may occur during the work operation.

Business Establishments and Other Public Facilities: When excavations are to be made near schools, hospitals, theaters, or large business establishments, where there is substantial pedestrian and vehicular traffic, notify customers in advance so that they will be inconvenienced as little as possible.

Work Area Considerations

Use the following parameters in your planning so that the job setup can occupy the smallest work area consistent with safe operations:

Width of Work Area: Generally should not exceed the width of one traffic lane.

Where this is not possible (e.g., excavations, manholes between two lanes), doing the job in steps should be considered. In congested areas with unusual traffic conditions, notify the local police precinct.

Length of Work Area: Should be separated from oncoming traffic by placing a tool cart, Pel bag, vehicle, or other similar barriers between the working point and oncoming traffic. For increased protection, a buffer zone (the same width as the work area) should be located in front of the work area. The area in front of the buffer zone will be used to channelize and taper traffic flow away from the work area by using traffic cones and/or stanchions.

Mobilization:

1. Day or night, before moving out into traffic lanes, operate hazard lights on the vehicle. For tool carts, mount the directional arrow signs and appropriate advance-warning flasher; and use channelizing devices (traffic cones and/or stanchions), as well as the required warning signs.
2. Warn oncoming motorists during the move into traffic lanes. When necessary, a crew member equipped with a signaling device and wearing a retroreflective vest should warn oncoming motorists.
3. If a traffic light is present, wait for the light to change before mobilizing equipment in or out of traffic lanes.
4. Some operations require work vehicles to be positioned facing oncoming traffic. Maneuvering a vehicle into such a position can present a risk to workers, the vehicle, and the public, if it is not performed using good judgment and appropriate safety equipment, i.e., a hard hat, flag, and retroreflective clothing.
5. The vehicle's hazard lights must be in operation and visible to all approaching traffic during the maneuver until the vehicle is within a protected work area.
6. Select traffic-control devices to protect the work areas.

Following Through: Setting Up the Street Work Area

In creating the work area protection setup, these elements are a part of the job-site characteristics to consider and the tools to use.

Steps to follow for setting up work area:

- Wear proper PPE (traffic vests, hard hat).
- Dome light/flashers/arrow boards.
- Position vehicle upstream from work site to begin channeling traffic.
- Flaggers to warn traffic, when necessary.
- Place advance warning sign(s); sign is first.
- Begin laying down traffic devices (e.g., cones, stanchions), working your way down to the work site.
- Continue to channel traffic using cones; determine work site termination.
- Establish work site.
- Establish work site termination with cones (downstream).
- Establish pedestrian channeling, when necessary.

Personal Protective Equipment: Employees exposed to vehicular traffic, e.g., when setting up, maintaining, removing, or working outside of work area protection, must wear hard hats and retroreflective safety apparel.

Advance-Warning Signs: Remember – oncoming drivers must be able to see the work area if they are to avoid it. Therefore, night or day, arrange your traffic-warning equipment to provide advance warning to oncoming drivers. Channelizing devices tapered to move traffic away from the work area with a series of warning signs extended in the direction of oncoming traffic must be used.

Traffic Devices: Set up the selected devices to control vehicle and pedestrian traffic and protect the work area. Provide clearly defined boundaries of street and sidewalk work areas throughout the work operation day and night.

Intersections: At intersections, place the most effective warning equipment so that it faces the heaviest oncoming traffic. Set up traffic-control devices on alternate sides of an intersection to control flow around a work area.

Lamp Reels: When taking temporary service from a lamppost, cover the open door with a lamppost apron to protect exposed wiring. (Contractors are required to use generators to obtain power.) ALWAYS lay cord along the curb. AVOID laying cord diagonally across traffic lanes. If necessary, use an extra lamp reel. Use shunt boards to cover cord and hose that protrude into pedestrian walkways or traffic lanes.

Pedestrian Passageways: Minimum must be 5-feet-wide. Where required, protect pedestrian and bus-stop passageways with barricades, planking, steel plates, or shunt boards extending well beyond the defined passageway. Use signage to indicate alternate paths and access to bus stops.

Using Wheel Chocks at Worksites: All commercially plated vehicles must be chocked within the work area.

Note: The work zone is an area with construction, maintenance, or utility activity, including on company property.

All vehicles in work area up to 26,001 Gross Vehicle Weight Rating (GVWR) require **two** chocks (including tool carts and extra machines).

Vehicles with 26,001 Gross Vehicle Weight Rating (GVWR) or greater require **four** chocks.

Using Wheel Chocks on Flat Roads: Place one chock in front and behind one rear wheel. (For vehicles with four chocks, set up front and behind both rear wheels).

Using Wheel Chocks on Inclined Roads: For vehicles set up or parked facing uphill on a job site, place chocks behind rear wheels on both sides. (Rear of front tires are to be steered on an angle toward curb shoulder where applicable).

For vehicles set up or parked downhill on a job site, place all chocks in front of rear wheels. (Steer front tires on an angle toward the curb shoulder where applicable).

Emergency brake must be in place at all times when a vehicle is stationary at a work area. Also, chocks must make contact with tires leaving no gap space.

Hazard-Vehicle Lights: If a vehicle must stand in lanes of moving traffic for work purposes and is not within a protected work area, the hazard-vehicle light(s) must be in operation day and night.

Street Openings: If it is necessary to leave street work areas unattended at night, provide traffic-control devices to include use of Type III barricades around the work area to protect motorists and pedestrians.

Plating: Provide plating or decking when required. All road plates must be pinned and ramped to avoid pedestrian foot injury or injury to motorists due to plate movement.

Floodlights: When it is dark, and when using flaggers, use flood lamps where required for additional protective illumination or work illumination. Lamp glare should not impede motorists or workers.

Subsurface Structure Openings: When opening service valve castings S1, S2, S3, 32-inch cover, or 44-inch covers for any underground structures, manhole guardrails in conjunction with telescoping rails, must be in place to prevent pedestrians from falling into the structure, and to prevent debris or other materials from entering. In addition, you must follow the appropriate entry procedures for enclosed or confined spaces. Larger sub-surface structures require type 2 barricades to be installed.

Housekeeping: Good housekeeping is an important item in street work area protection.

Demobilization of the Job:

Steps to follow for breaking down work area:

- Wear proper PPE.
- Clean up work area.
- Break down work site.
- Pick up traffic devices in reverse order.
- Work your way back toward the Advance Warning sign.

Moving Out of the Work Area

Just as with setup of the work area, proper procedures must be observed when the job is finished and the site is being cleared.

Hazard-Vehicle Lights: Traffic-warning equipment and hazard-vehicle lights must be in operation while moving from traffic lanes to the curb.

Flagger: A trained member of the crew, wearing a retroreflective vest and hard hat, should warn oncoming motorists with a signaling device where necessary.

Traffic Controls: If a traffic light is present, wait for the red light before moving out of the traffic lane.

Plates: Ensure that all road plates are left pinned and ramped to maximize public safety.

Ongoing Work: If the job is shared by another Con Edison work area setup, make sure to leave the work area protection and the setup in good condition.

Housekeeping: Before leaving the area, inspect the site to be sure that no tools, equipment, or debris are left behind. Always work the job to make the public think well of you and the company. Remember, on the job, ***you are Con Edison***.

Advance-Warning Signage and Equipment for Work Area Protection

2

The purpose of advance warning is to properly alert motorists and pedestrians to physical conditions ahead.

Note: The advance-warning area may vary from a single sign to a series of signs in advance of the temporary traffic-control zone activity area.

Signage distances may be adjusted where necessary, depending on roadway limitations or for more effective warning and guidance.

Signage must effectively warn oncoming traffic, allowing adequate time for driver response. The employee must make the judgments necessary to establish and maintain effective advance warning.

Advance-Warning Signs

Description: Warning signs must have a black legend on an orange background and be retroreflective for nighttime use. Diamond-shaped warning signs are preferred. However, where necessary, the alternate rectangular shape may be used. Minimum sizes for warning signs are 30 inches by 30 inches (diamond); 36 inches by 36 inches for conventional roads, and 48 inches by 48 inches for freeway or expressways. Rectangle sign sizes are to be 24 inches by 18 inches for conventional roads, and 36 inches by 24 inches for freeways or expressways.

Signs Displaying the Symbol of a Worker or the Words "Road Work Ahead" or "Utility Work Ahead"

Instructions for Use: These signs are required to be posted for all work done in a traffic lane, parking lane, or on a shoulder. They must be posted first and in front of channelizing devices.

The sign displaying the symbol of a worker (the "worker symbol") may be used for short-duration work areas, while the "Road Work Ahead" and "Utility Work Ahead" signs are to be used for long-duration work areas (i.e., more than three days).

The sign may be mounted on portable "crashworthy" supports and must face oncoming traffic.



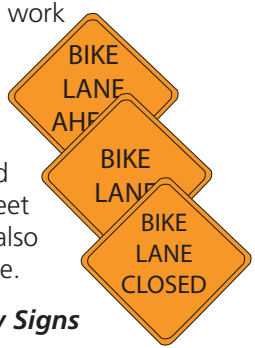
For short-duration work that occupies a location for up to three days, such as a manhole operation where workers are present or work in a parking lane, the standard distance between the warning sign and the lane closure or work area is 150 feet.

For long-duration work (more than three days), such as an excavation in a travel lane, the standard distance between the warning sign and the lane closure or work area is 300 feet.

Different distances may be used where necessary for more effective warning and guidance.

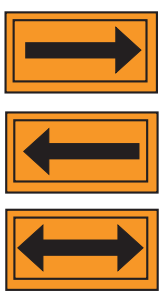
Bike Signs

"Bike Lane" signs are to be used when stipulated on the work permit issued by the city. If work is affecting a bike route/lane, a bike lane closed advance warning sign must be posted 350 feet and 200 feet prior to work, and also posted at work zone.



Directional-Arrow Signs

Description: Orange retroreflective background at least 48 inches by 24 inches for conventional roads, and 60 inches by 30 inches for expressway, with a clearly recognizable black arrow symbol. Standard or variable arrow signs (as shown) may be used.



Instructions for Use: The arrow board may be mounted on a vehicle, tool cart, barricade, or portable supports. It must be mounted at a minimum height of 1 foot to the bottom of the sign and must face in the direction of the oncoming traffic. The arrow must indicate the direction in which the traffic may pass.

Note: Arrow signs are intended to give motorists clear information and provide them with effective guidance. Therefore, care must be taken to ensure that the proper message is displayed at all times.

"Flagger Ahead" Signs

Description: The "Flagger Ahead" sign must be diamond shaped, minimum 30 inches by 30 inches, 36 inches by 36 inches conventional, 48 inches by 48 inches expressway, with a black legend and border on retroreflective orange background. It shows the silhouette of a person standing with the right arm (facing the viewer) extended horizontally and holding a flagstaff horizontally, with the flag hanging down. The free arm is shown bent with the palm above shoulder level.



Instructions for Use: The "Flagger Ahead" sign shall be placed after the worker symbol or "Road Work Ahead" or "Utility Work Ahead" sign and well before the flagging location.

Lane-Closure Signs

Description: Lane-closure warning signs must have a black legend and border on an orange retroreflective background.



Instructions for Use: Advance notice of closed lanes must be provided when work areas must interrupt the flow of traffic in through lanes. This sign should be placed after the worker symbol or "Road Work Ahead" sign and may be placed at the beginning of the taper created by the use of channelizing devices.

Road Closed Signs



Description: This is a horizontal rectangular white sign, 48 inches by 30 inches, with a black border and the words "Road Closed" in black on two lines.

Instructions for Use: The "Road Closed Ahead" sign should be used when the roadway is closed to all road users except contractors' equipment or officially authorized vehicles. This sign should be accompanied by appropriate warning and detour signage. This sign should be installed at or near the center of the roadway, on or above a Type III barricade that closes the roadway.

Note: New York City requires closed-street permits from the DOT. Both the police department and the fire department's communications center require notification 24 hours in advance of nonemergency street closings. The local community planning board requires a notification seven days in advance when closing more than 50% of moving lanes per direction. Westchester permits vary by municipality.

"Sidewalk Closed" Signs

Description: This device is used when a sidewalk must be closed in order to conduct work. This is a visual indicator to notify pedestrians that passage though this area is prohibited. Provisions must also be made to indicate redirection of pedestrian traffic.

Persons With Visual Disabilities

Adequate provisions, as determined by an engineering study or by engineering judgment, should be made for persons with visual disabilities. Because printed signs and surface delineations are not accessible to pedestrians with visual disabilities, blocked routes, alternate crossings, and sign and signal information should be communicated to pedestrians with visual disabilities by providing the following: audible information devices, accessible pedestrian signals, and barriers and channelizing devices that are detectable to pedestrians who have low vision or who are traveling with the aid of a long cane. The following three items should be considered when planning for pedestrians:

A. Pedestrians should not be led into conflicts with work site vehicles, equipment, and operations.

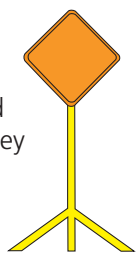
B. Pedestrians should not be led into conflicts with vehicles moving through or around the work site.

C. Pedestrians should be provided with a reasonably safe, convenient, and accessible path that replicates as nearly as practical the most desirable characteristics of the existing sidewalk(s) or foot path(s). Where pedestrians who have visual disabilities encounter work sites that require them to cross the roadway to find an accessible route, instructions

should be provided using an audible information device. Accessible pedestrian signals with accessible pedestrian detectors might be needed to enable pedestrians with visual disabilities to cross wide or heavily traveled roadways. A pedestrian route should not be severed and/or moved for nonconstruction activities, such as parking for vehicles and equipment.

High-Level Warning Devices

These devices are used in addition to signage. They can be lighted or unlighted as described below, and they provide clear, highly visible warning of the work area for both pedestrians and vehicles.



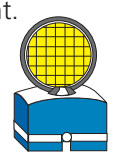
Flag Trees

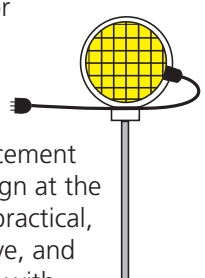
Description: The flag tree should display a minimum of two 16 inches by 16 inches flags with their lowest corners at a height of 8 feet. Other warning signs may be mounted below the flags to alert and warn traffic in advance of a work area during daylight hours.

Instructions for Use: At work areas where the placement of the advance-warning sign at the standard distances is not practical or is found to be ineffective, a flag tree may be used in conjunction with a worker symbol or road work ahead sign in advance of the work area (also in advance of any arrow boards) to effectively warn traffic. It must be placed at a sufficient distance in front of the work area to warn oncoming drivers.

Advance-Warning Flasher: Type B High-Intensity Flashing Warning Lights

Description: The high-intensity, warning light (Type B) provides a flashing yellow light in one direction only, for use both day and night. These lights can be mounted on traffic signs, or barricades to warn road users. These warning lights must be in accordance with current Institute of Transportation Engineers (ITE) "Purchase Specification for Flashing and Steady-Burn Warning Lights."





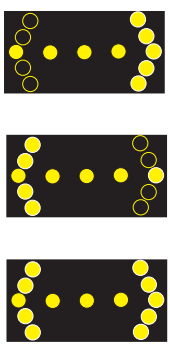
Instructions for Use: At work areas where the placement of the advance warning sign at the standard distances is not practical, or is found to be ineffective, and the advance-warning sign with flag tree is also found to be ineffective, the

advance-warning flasher may be used in conjunction with the advance-warning sign to provide additional warning to oncoming traffic. When mounted on an advance-warning sign, the distance from the roadway to the bottom of the lens of the light must not be less than 8 feet.

Note: The flag tree can be used in conjunction with the advance-warning sign during daylight hours and/or the advance-warning flasher during hours of darkness.

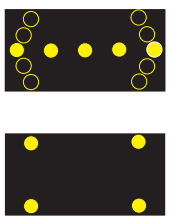
Flashing-Arrow Panel

Description: The unit must consist of a black rectangular background at least 4 feet wide and 2 feet high, with yellow flashing lights at least 4 inches in diameter, which form a clearly recognizable arrow symbol.



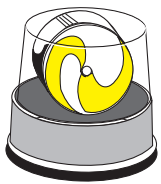
Instructions for Use: The unit may be mounted at a height of at least 7 feet from the bottom of the unit on a trailer or other suitable support. Vehicle-mounted panels should be as high as practicable. This sign can provide additional warning and directional information to assist in merging and controlling traffic around the work area.

If using an arrow panel, the arrow or chevron mode must be used for lane closures on multi-lane streets. If more than one lane is closed, a separate arrow panel must be used for each closed lane. The caution mode must be used in situations where one lane of a two-way street is closed. The caution mode may also be used for work (including surveying) done on shoulders and sidewalks near traffic situations.



Note: Arrow panels may be used in conjunction with warning signs. They may not be used to replace warning signs.

Hazard-Vehicle Light



Description: Vehicle-mounted, revolving (360 degrees) amber light.

Instructions for Use: The light must be displayed and be visible to all approaching traffic when the vehicle is operated at a work site in the roadway and the vehicle is not within a protected work area.

Work Area Protection

Work area protection involves the immediate area in which workers' activities are taking place. Consideration must be given to pedestrian and motorist protection. The work area is generally bordered by:

- Stanchions with telescoping rails and/or orange barrier tape, and/or
- Barricades Type I, Type II, or Type III.

Traffic-control devices, including channelizing devices, such as stanchions and cones, as well as sign supports and barricades, must conform to new requirements set by the National Cooperative Highway Research Program (NCHRP) Report 350, "Recommended Procedures for the Safety Performance of Highway Features," and are to be constructed of crashworthy materials.

Protection of Pedestrians

Traffic-control devices used to delineate pedestrian walkways must be crashworthy so that if struck by a vehicle, there will be a minimal threat to pedestrians, workers, and the occupants of vehicles.

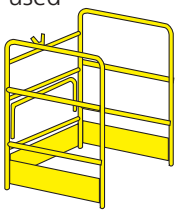
When existing pedestrian paths are disrupted or closed, alternate routes must be provided to crosswalks and bus stops. Signage may be provided to improve recognition of a temporary pedestrian route.

Stanchions with telescoping rails are to be used to channel pedestrians safely around the work area. Such barricades should be detectable to users of canes with a bottom rail no higher than 2 inches above ground, and a top rail at least 32 inches above ground.

If storing materials outside of the work area setup near pedestrian pathways (sidewalks and crossings), Type III barricades should be used to channel pedestrians safely around these storage areas.

Note: The devices must form a continuous barrier without any gaps between the devices.

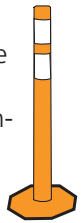
Subsurface Protection Devices



Description: Manhole guardrail and telescoping rails are used to prevent personnel, debris, tools and pedestrians from falling into subsurface structures and are not a traffic-control device. Manhole guardrails are yellow and equipped with three sides and two rails, plus a toe-board. The height of the top rail must not be less than 42 inches. Telescoping rails are mounted onto stanchions. The first rail is placed at the bottom of the stanchions and the second rail is secured at the top.

Instructions for Use: Manhole guardrails are to be used for open manholes. Manhole guardrails must be used for the following subsurface type of structure opening with type of covers: service valve castings, SI, S2, S3, 32-inch manhole cover, and 44-inch manhole cover. Larger subsurface structures require type 2 barricades.

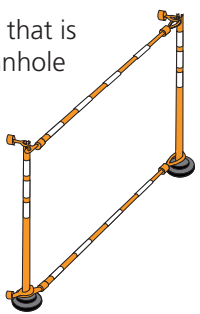
Stanchions, Telescoping Rails, and Boundary Tape





Description: Stanchions must be crashworthy*, must consist of orange uprights at least 42 inches high with bases, and may be of a tubular or cone style. Each must have a minimum of two retroreflector bands near the top of the stanchion. The boundary tape is orange.

Instructions for Use: To outline the boundaries of street work areas such as:



- An open manhole that is protected by a manhole guardrail;
- Vault cage entry;
- Overhead pole work;
- Setup around Vactor/flush trucks.

* Temporary Traffic-Control (TTC) devices used to delineate a TTC zone pedestrian walkway must be crashworthy and, when struck by vehicles, present a minimum threat to pedestrians, workers, and occupants of impacting vehicles.

Barricades

Description: Barricades must be crashworthy and are of three types:

Type I – Has one rail that must be a minimum length of 2 feet and a width of 8 inches to 12 inches. Minimum height requirement is 36 inches.

Type II – Has two rails that must each be a minimum length of 2 feet and a width of 8 inches to 12 inches.

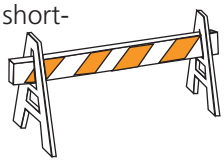
Type III – Has three rails that must each be a minimum length of 4 feet and a width of 8 inches to 12 inches. Minimum height requirement is 60 inches.

In addition, for all types:

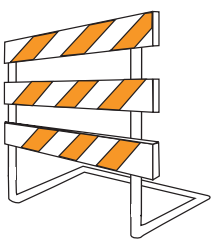
- Rails must be marked with alternate orange and white stripes at an angle of 45 degrees.
- Rails must be retroreflective for night use. And 270 square inches for freeways.

Instructions for Use: Barricades are used to mark an obstruction (work area) in the roadway and are required to outline excavations.

- The Type I barricade is used for temporary or short-duration work and for out lining excavations.



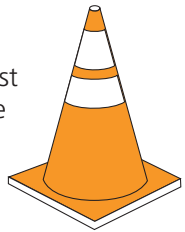
- The Type III barricade is normally used to face oncoming traffic for long-duration work where the barricade is to remain in the roadway for extended periods.



- Telescoping rails with stanchions are to be used to channel pedestrians safely around the work area. Type II or Type III barricades may be used at pedestrian crossings, as well as at sidewalks or other areas where pedestrians would normally come into contact with the work area.
- Ballasts must not be placed on the top rail and must not consist of nondeformable objects such as rocks or concrete.

Note: The addition of company identification must not detract from the striping on the face of the barricade rail(s) facing oncoming traffic.

Cones



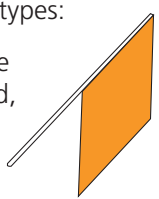
Description: Cones must be orange and must be between 28 and 36 inches in height with two reflectorized bands near the top. For nighttime use, cones must be retroreflectorized or equipped with lighting devices for maximum visibility. Retroreflectorization of cones that are 28 to 36 inches in height must be provided by a 6-inch-wide white band located 3 to 4 inches from the top of the cone and an additional 4-inch-wide white band located approximately 2 inches below the 6-inch-wide band.

Instructions for Use: The primary function of cones is to channel traffic. The cone should be used to control and direct traffic around or through the work area by gradually narrowing the roadway and indicating the path to be followed. Cones may be used in combination with:

- A flag inserted in the top of the cone to enhance its target value during daylight hours;
- Type B warning lights (high-intensity flashers), which may be used day or night (warning lights must flash when used to warn of a condition);
- Type C steady-burn warning lights when used to channelize traffic.

Signaling Devices

Description: Signaling devices must be one of the following types:



- Signal flag – must be retroreflectorized red, at least 24 inches by 24 inches, securely fastened to a staff 36 inches long.



- Signal light – a steadily burning red or red-orange flashlight wand.

- Paddle – a combination "Stop" and "Slow" sign on an octagonal panel, at least 18 inches wide with letters 6 inches high, securely fastened to a rigid handle. Both faces must be retroreflectorized for nighttime use. The "Stop" face must be red with white letters and border. The "Slow" face must be orange with black letters and border.

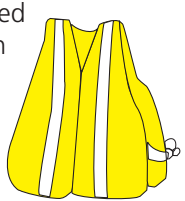


Instructions for Use: Signaling devices should be used by flaggers to issue signals to oncoming traffic.

- The signal flag is for use during daylight hours, and the signal light is for use during emergency situations by a single flagger.
- The "Stop" and "Slow" paddles are used day or night when more guidance to motorists is needed. However, they should not be used where display of the paddle face in the opposite direction would be inappropriate or misleading.
- Use of the "Stop" and "Slow" paddle is preferable in a two-way traffic condition, such as the middle of a street, as opposed to an intersection where traffic may travel in four directions.

Safety Apparel

Description: Flaggers, as well as employees outside of the work area setup, must wear approved safety apparel available in Class & Stock.



Note: Must be used in work where mobile equipment is used or machinery is moving

Instructions for Use: Vests or compliant apparel must be worn on the outside of all other clothing. Trained employees assigned as flaggers must wear safely apparel when controlling traffic. When leaving or working outside a protected work area, employees exposed to vehicle traffic, e.g., setting up, maintaining, or removing work area protection, must wear a safety vest. Surveyors and employees working in the roadway with minimum protection must wear a safety vest.

Remember: The value of your safety vest is diminished when you crouch, bend, or move into a position that reduces your visibility or the reflective value of the vest.

Flags (used in conjunction with traffic-control devices)

Description: Flags must be orange; a minimum of 16 inches by 16 inches and attached to a staff at least 30 inches long.

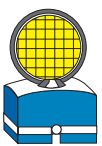


Instructions for Use: Flags may be displayed in a manner that does not obscure the legend above any channeling device, on vehicles or tool carts, on stanchions and barricades, and above warning signs.

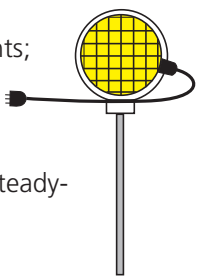
Note: Flags are a supplement to increase the target value and visibility of the work area during daylight hours. Flags may be placed at suitable intervals of not more than 20 feet during daylight hours on barricades used to outline excavations.

Low-Intensity Warning Lights

Description: Low-intensity lighting is for use during nighttime hours only. All warning lights must comply with the ITE "Purchase Specification for Flashing and Steady-Burn Warning Lights," such as:

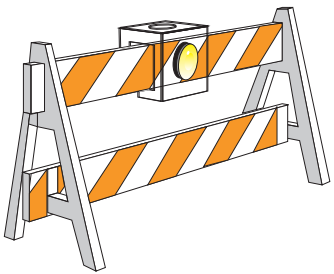


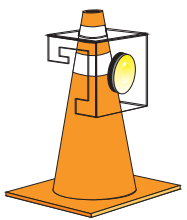
- Type A low-intensity flashing warning lights;
- Type C steady-burn warning lights;
- Type D 360-degree steady-burn warning lights.

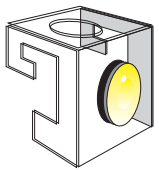


Instructions for Use: On barricades used to outline excavations, one light must be placed on the barricades at suitable intervals of not more than 20 feet. Use during hours of darkness only. (Use Type B high-intensity flashing warning lights for day and night.) Warning lights must have a minimum mounting height of 30 inches.

Safety cones/barricade LED lights







Traffic Control and Work Area Protection Arrangements

3

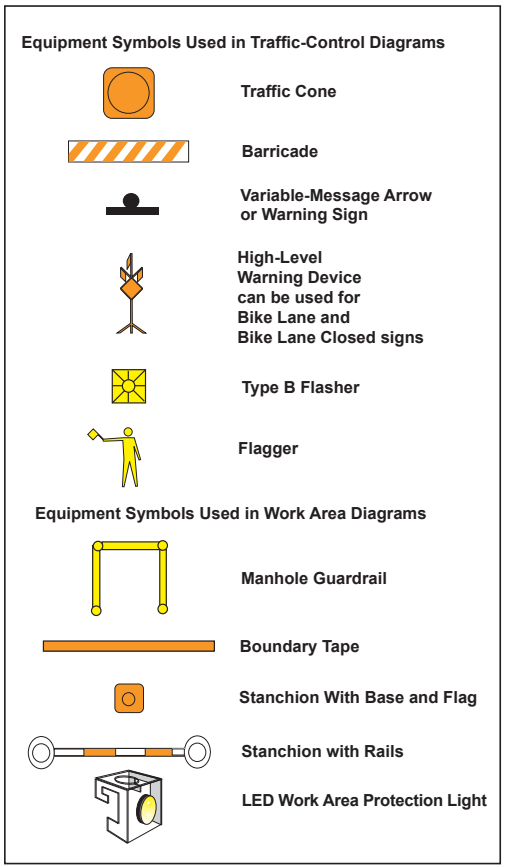
Work Area Protection Diagrams

This section provides graphic diagrams showing a variety of typical work locations. In each case, a scene is provided showing the work area protection properly deployed. In addition, a smaller "blueprint" diagram providing an overhead view of the job site helps to clarify the placement of signage, lights, barriers, and other work area protection equipment.

The arrangements shown in this section do not cover every possible work area configuration. They are intended to provide a representative sample of field conditions and to offer guidance when planning work area protection in similar settings. If you're not sure how to proceed, talk to your supervisor.

Using these diagrams as reference, you must also:

1. *Review the DOT permit for conditions of work. Verify information if needed.*
2. Select a traffic-control diagram that meets most nearly the requirements to control traffic at the work site.
3. Select a work area protection diagram for your type of operation.
4. Set up the work site in accordance with the arrangements selected. Adapt the arrangements where necessary to meet local conditions.



Work Area Protection Diagrams

These configurations are generally applicable to comparable work areas with similar road conditions.

- Setup for Pole Setting on Four-Lane Road With Two Lanes of Traffic in Each Direction
- Setup for Curved Two-Lane Road With Two-Way Traffic
- Setup in Middle Lane of Three Lanes of Traffic Moving in the Same Direction
- Setup in One Lane of a Four-Lane Road With Two Lanes of Traffic in Each Direction
- Setup at an Intersection With Pedestrian Crosswalks
- Setup at an Intersection With Pedestrian Crosswalks
- Setup Around Subsurface structure in Sidewalk Area
- Setup in Middle of Roadway Diverting Traffic
- Setup in Street Blocking Bike Lane

Setup for Pole Setting on Four-Lane Road With Two Lanes of Traffic in Each Direction

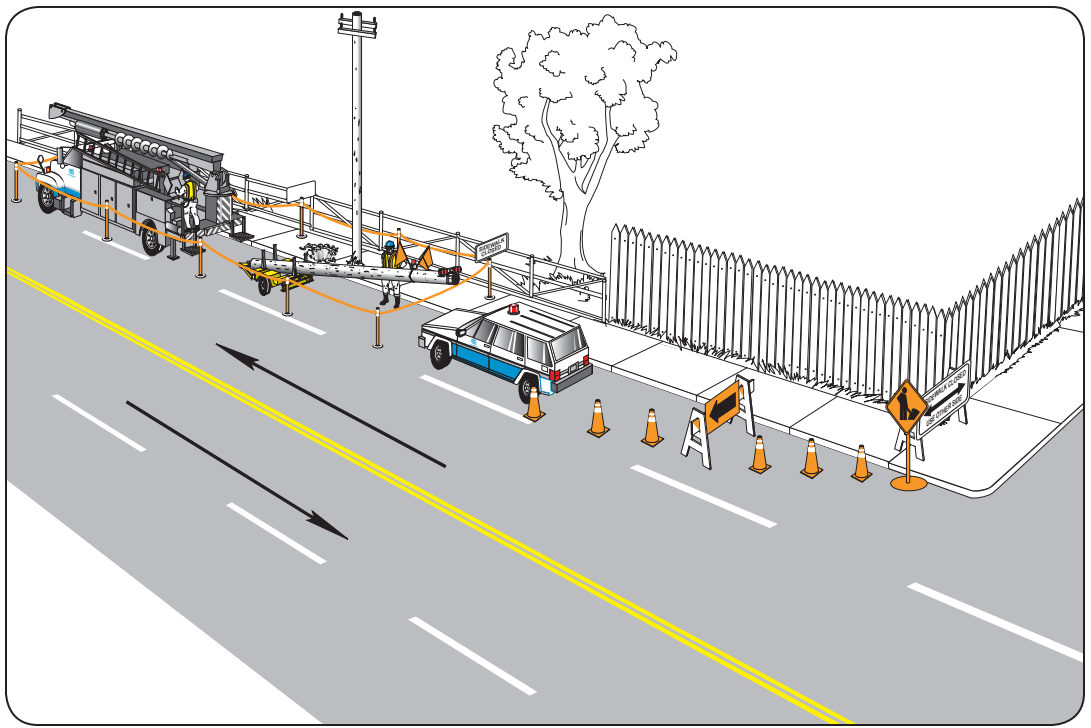
This configuration is generally applicable to comparable work areas with similar road conditions.

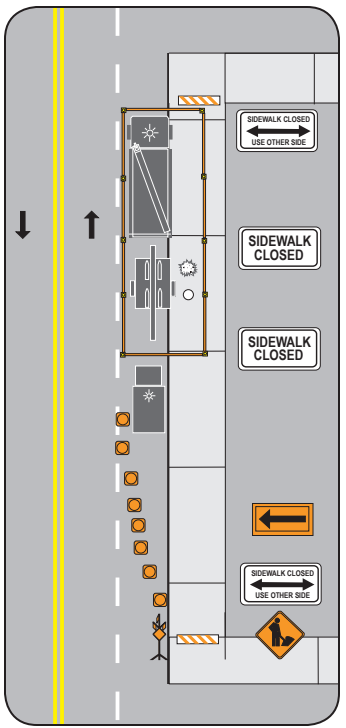
Setup

- Where necessary, assign a flagger while the work area is being prepared.
- Place the advance-warning sign at the beginning of the tapered work zone.
- Place the "Lane Closed" sign to appear in plain view after the advance-warning sign for traffic traveling toward the one closed lane.
- Place traffic cones so that the traffic is tapered away from the work area.
- Set up stanchions and boundary tape. (Tape may be used when pedestrians have restricted access to the work area.)
- Post "Sidewalk Closed" sign near setup (optional).
- Post "Sidewalk Closed — Use Other Side" sign on both sides of the work area, at the nearest corners to restrict pedestrian traffic on the work side of the street.

Equipment

- Advance-warning sign ("Worker Symbol," "Work Area Ahead," or "Utility Work Ahead")
- 28" or 36" traffic cones
- Lane-closure sign (arrow board or flashing-arrow panel)
- Stanchions and boundary tape
- Sidewalk-closed signage





Blueprint of work area

Setup for Bucket Truck on Curved Two-Lane Road With Two-Way Traffic

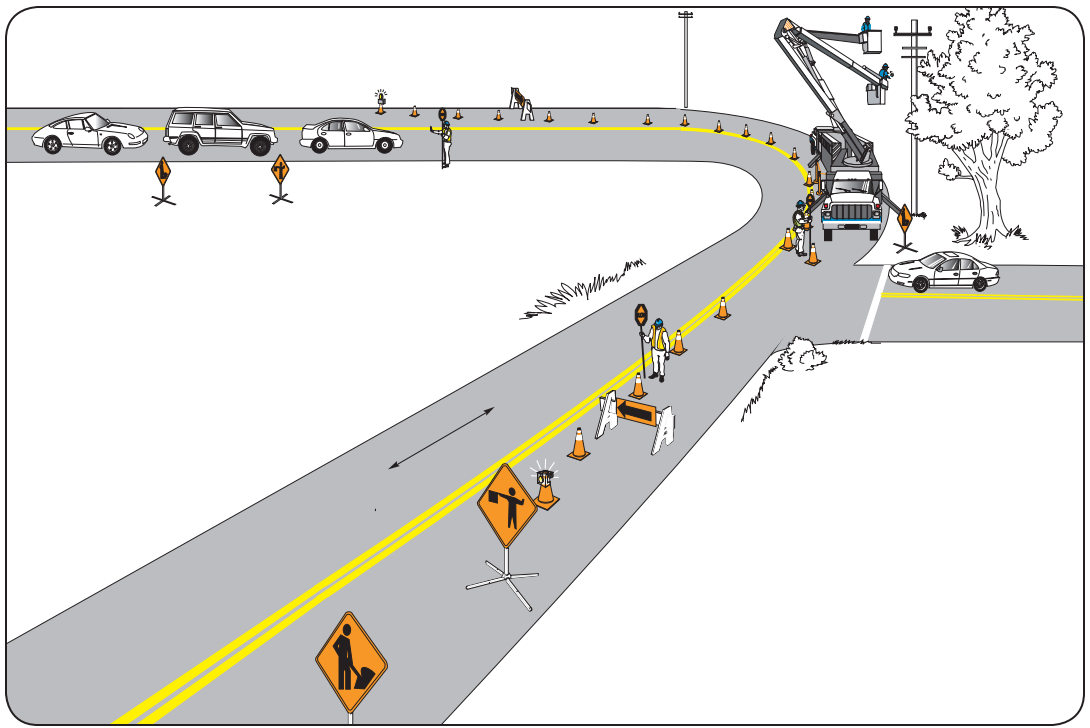
This configuration is generally applicable to comparable work areas with similar road conditions.

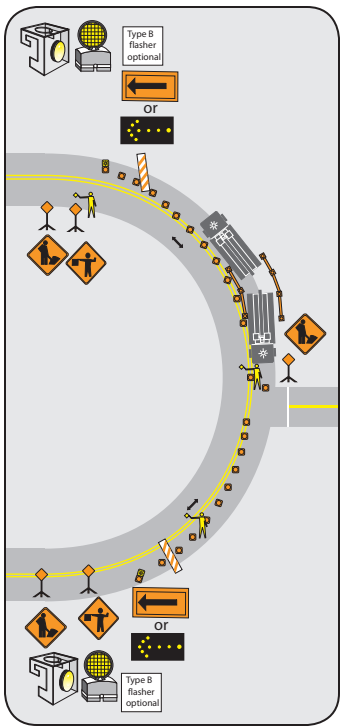
Setup

- Assign three flaggers, one at each end of the work area, and one at a nearby intersection, to control the flow of two-way traffic in one lane. The flagger position should be within a protected area, such as the tapered area.
- Ensure communications among flaggers (walkie-talkies).
- Place the advance-warning sign at the beginning of the tapered work zone for both sides of oncoming traffic.
- Place "Flagger Ahead" signs after the advance-warning sign and well before the flagger position.
- Place the "Lane Closed" sign to appear in plain view after the advanced warning sign for traffic traveling toward the one closed lane.
- Place the "Lane Closed" sign for traffic approaching on the opposite side of the double yellow line (optional).
- Place traffic cones so that upstream and downstream traffic are both tapered away from the work area.
- Set up stanchions and boundary tape to extend around work areas (tape may be used when pedestrians have restricted access to the work area).

Equipment

- 3 advance-warning signs ("Worker Symbol," "Work Area Ahead," or "Utility Work Ahead")
- Flags (optional)
- 2 lane-closure signs (arrow board or flashing-arrow panel)
- 2 "Flagger Ahead" signs
- 28" or 36" traffic cones
- Stanchions and boundary tape, safety cone, barricade LED lights
- Type B flashers (optional)
- 3 sets of flagger-communication equipment
- 3 flagger paddles





Blueprint of work area

Setup for Excavation in Middle Lane of Three Lanes of Traffic Moving in the Same Direction

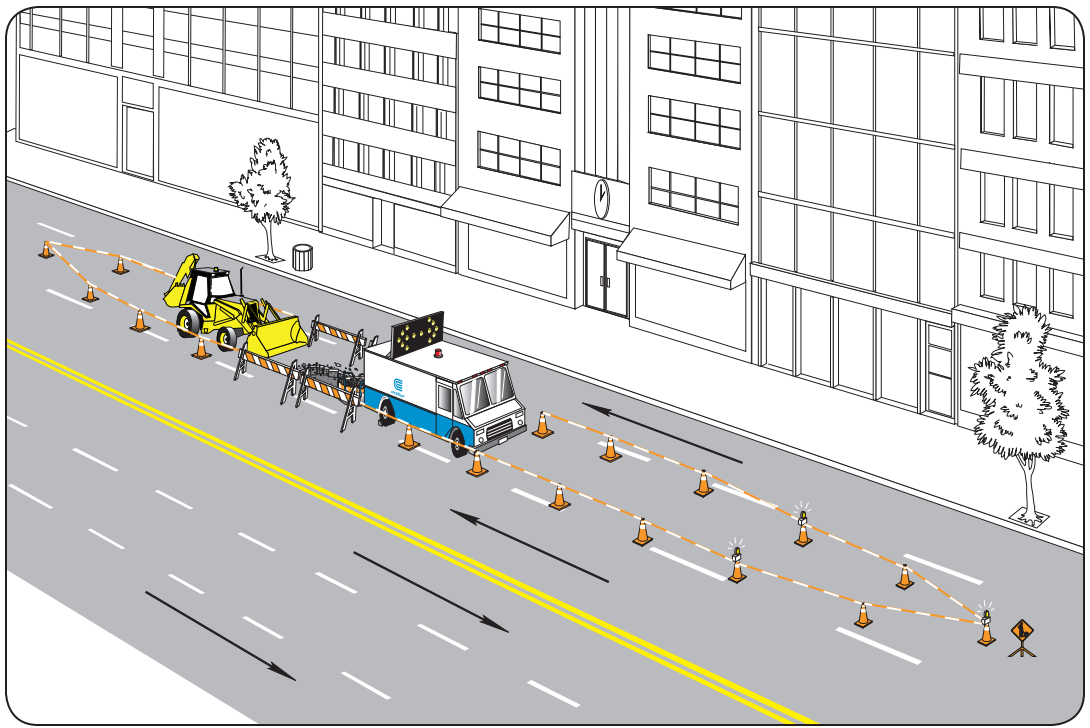
This configuration is generally applicable to comparable work areas with similar road conditions.

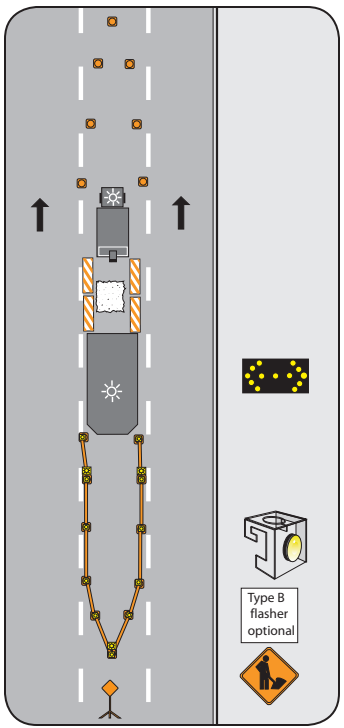
Setup

- Where necessary, assign a flagger while the work area is being prepared.
- Place the advance-warning sign at the beginning of the tapered work zone.
- Place the "Lane Closed" sign in plain view after the advance-warning sign.
- Place traffic cones so that the traffic is tapered away from the work area.
- Place sturdy barricades around the excavation work area.
- Filled Pel bags should be placed inside the work area nearest barricades that are most at risk of impact from oncoming traffic.

Equipment

- Advance-warning sign ("Worker Symbol," "Work Area Ahead," or "Utility Work Ahead")
- Flags (optional)
- 28" or 36" traffic cones
- Lane-closure sign (arrow board or flashing-arrow panel)
- Type B flashers/LED lights (optional)
- Stanchion and telescoping rails
- Barricades





Blueprint of work area

Setup for Flush Truck in One Lane of a Four-Lane Road With Two Lanes of Traffic in Each Direction

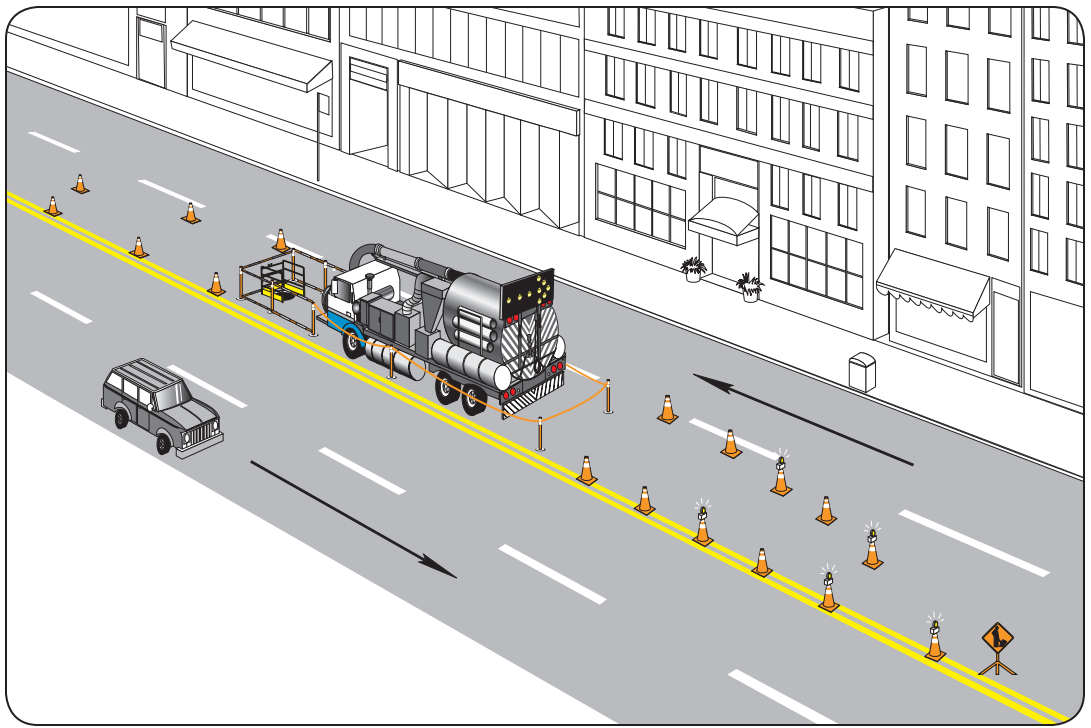
This configuration is generally applicable to comparable work areas with similar road conditions.

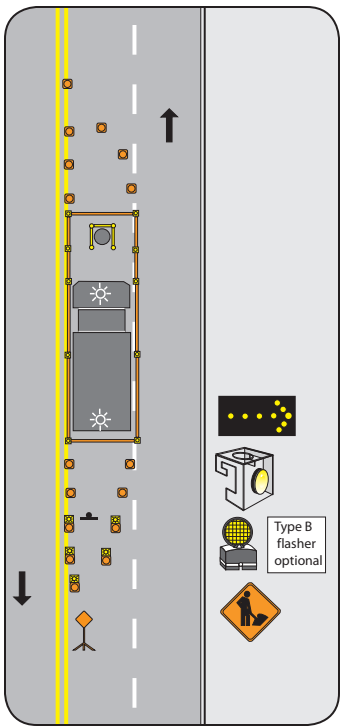
Setup

- Where necessary, assign a flagger while the work area is being prepared.
- Place the advance-warning sign at the beginning of the tapered work zone for both sides of oncoming traffic.
- Place the "Lane Closed" sign to appear in plain view after the advance-warning sign for traffic traveling toward the one closed lane.
- Place the flashing-arrow panel, in the caution mode (no arrow) for traffic approaching on the opposite side of the double yellow line (optional).
- Place traffic cones so that the oncoming traffic is tapered away from the work area.
- Place traffic cones to ease the downstream traffic flow and maintain separation of traffic flowing in the opposite direction.
- Set up stanchions and boundary tape to extend completely around the flush operation. (Tape may be used when pedestrians have restricted access to the work area.)

Equipment

- Advance-warning sign ("Worker Symbol," "Work Area Ahead," or "Utility Work Ahead")
- Flags (optional)
- 28" or 36" traffic cones
- Lane-closure sign (arrow board or flashing-arrow panel)
- Flashing-arrow panel, in the caution mode (optional)
- Stanchions, telescoping rails, and boundary tape
- Type B flashers (optional)
- Manhole guardrail





Blueprint of work area

Setup for Tool Cart at an Intersection With Pedestrian Crosswalks

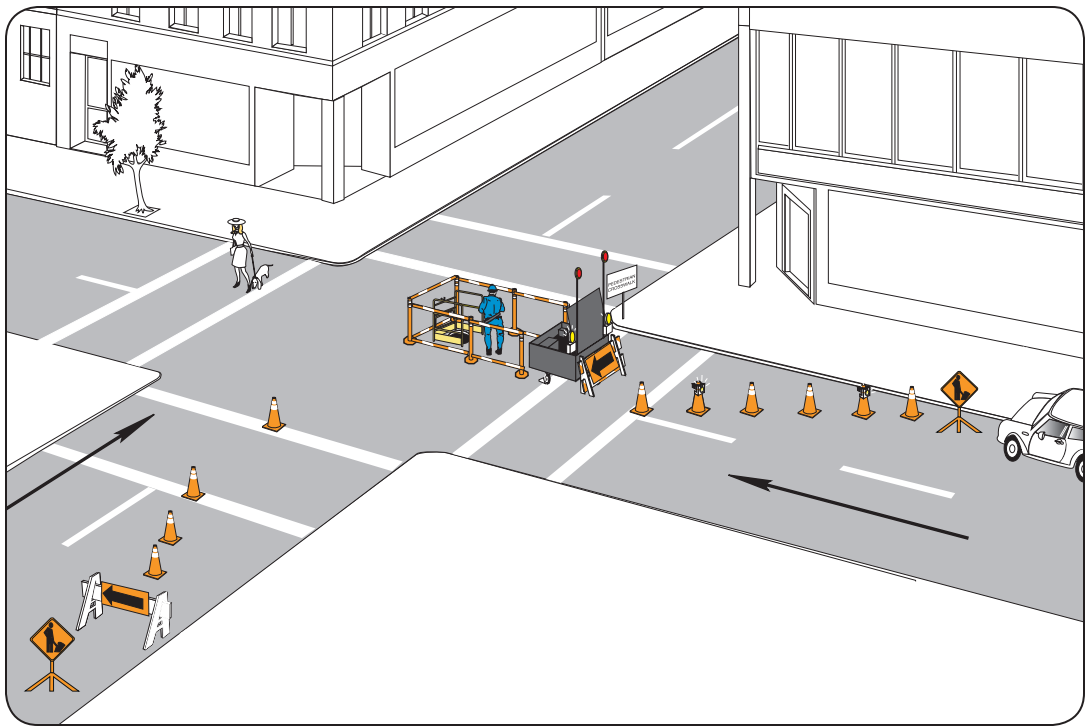
This configuration is generally applicable to comparable work areas with similar road conditions.

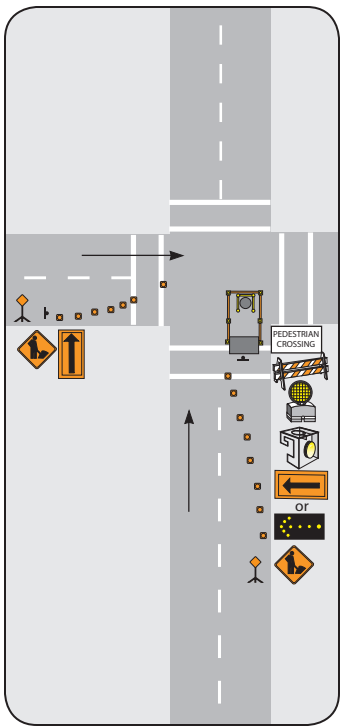
Setup

- Where necessary, assign a flagger while the work area is being prepared.
- This work area is immediately preceded by a parking lane. Place one advance-warning sign in the parking lane and another advance-warning sign for traffic that is restricted to the left of the work area.
- Place the "Lane Closed" sign so that it appears in plain view after the advance-warning sign for traffic that is restricted to the left of the work area. ("Lane Closed" signs are not required for parking lanes.)
- Place traffic cones so that the traffic is tapered away from the work area for oncoming traffic. Maintain pedestrian access to crossings not affected by the work area.
- Maintain pedestrian safety from upstream traffic at all relocated crossings with placement of Type III barricades or with barricades equipped with a bottom rail at most 6 inches above street level and a top rail at least 36 inches high (see Protection of Pedestrians, page 17).
- Place Type B flashers on barricades at pedestrian crossings.
- Post the "Pedestrian Crossing" sign to redirect pedestrian traffic.
- Set up stanchions and boundary tape to extend around work areas. (Tape may be used when pedestrians have restricted access to the work area.)

Equipment

- 2 advance-warning signs ("Worker Symbol," "Work Area Ahead," or "Utility Work Ahead")
- 28" or 36" traffic cones
- 1 lane-closure sign (arrow board or flashing-arrow panel)
- Type III barricades or barricades equipped with two rails
- Stanchions, telescoping rails
- 2 to 4 Type B flashers (required)
- "Pedestrian Crossing" sign (optional)
- LED work area protection lights (optional)
- Manhole guardrail





Blueprint of work area

Setup for Cable Trucks at an Intersection With Pedestrian Crosswalks

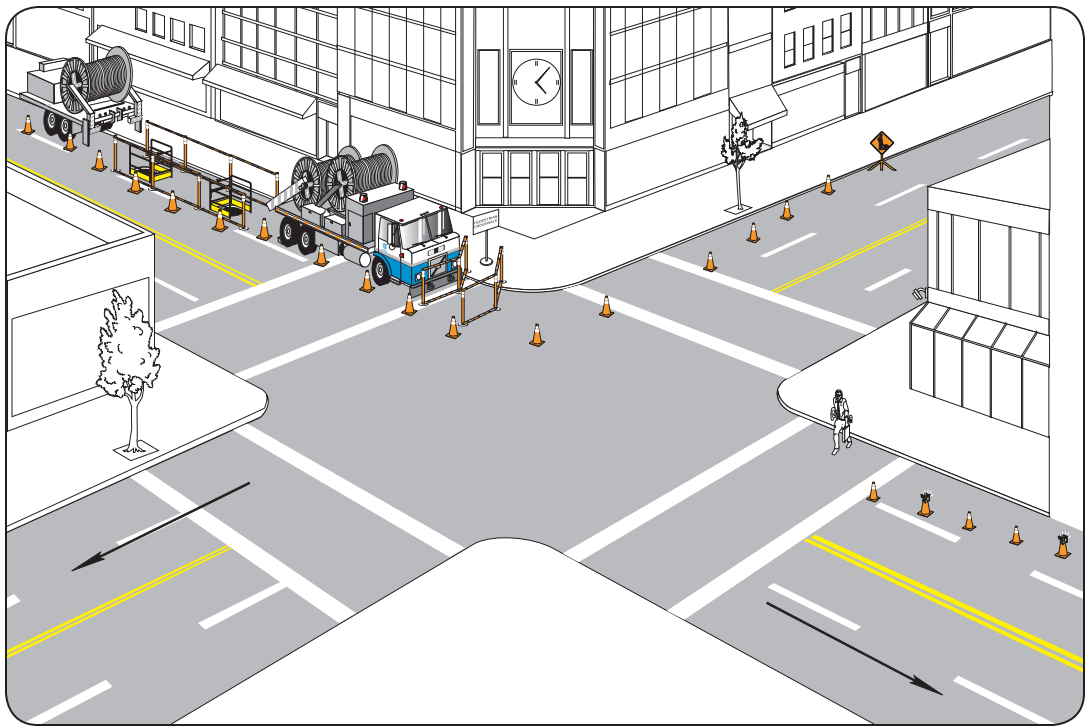
This configuration is generally applicable to comparable work areas with similar road conditions.

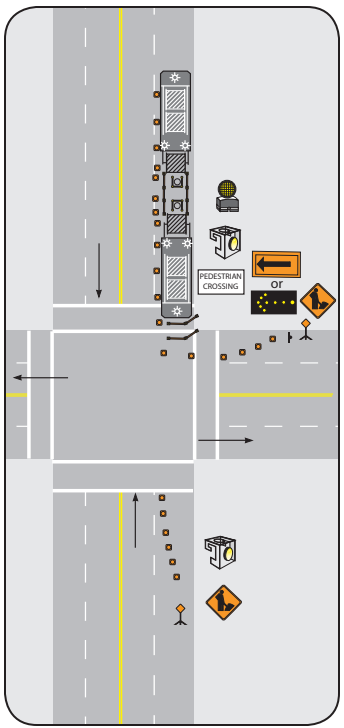
Setup

- Where necessary, assign a flagger while the work area is being prepared.
- Place the advance-warning signs on the far side of the intersection for traffic traveling upstream and for traffic that is restricted from turning into that lane.
- Place the "Lane Closed" sign to appear in plain view after the advance-warning sign for traffic traveling toward the one closed lane.
- Place traffic cones so that the traffic is tapered away from the work area for oncoming traffic.
- Maintain pedestrian access to crossings not affected by the work area.
- Maintain pedestrian safety from upstream traffic at all relocated crossings with placement of Type III barricades or with barricades equipped with a bottom rail at most 6 inches above street level and a top rail at least 36 inches high (see Protection of Pedestrians, page 17).
- Place Type B flashers on barricades at pedestrian crossings.
- Post the "Pedestrian Crossing" sign to redirect pedestrian traffic.
- Set up stanchions and boundary tape to extend around work areas. (Tape may be used when pedestrians have restricted access to the work area.)

Equipment

- 2 advance warning signs ("Worker Symbol," "Work Area Ahead," or "Utility Work Ahead")
- Flags (optional)
- 28" or 36" traffic cones
- 2 lane-closure signs (arrow board or flashing-arrow panel)
- Type III barricades or barricades equipped with two rails
- Stanchions and telescoping rails
- 2 to 4 Type B flashers (required)
- "Pedestrian Crossing" sign (optional)
- Manhole guardrails





Blueprint of work area

Job setup on sidewalk

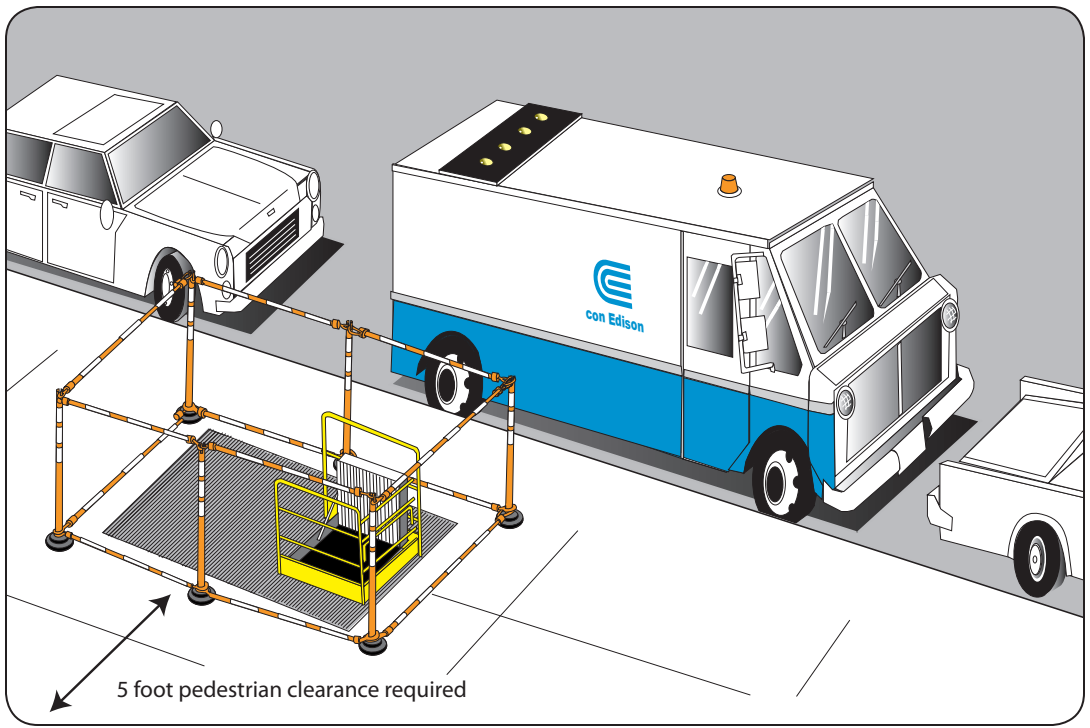
This configuration is generally applicable to comparable work areas with similar sidewalk conditions.

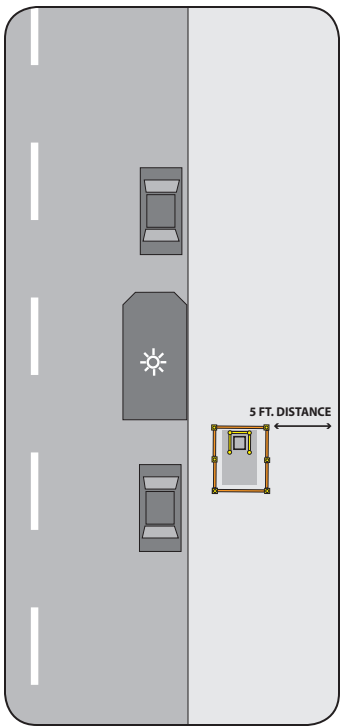
Setup

- Secure area with telescoping rail/stanchion combination.
- Two telescoping rails must be used per section, one on the bottom and the other hung on the top of the stanchions.
- Place cones around setup to give advance warning to pedestrians.
- Open underground structure covers.
- Utilize manhole guardrails, when feasible.

Equipment

- Stanchions and telescoping rails
- Manhole guardrail





Blueprint of work area

Closure/redirection of bike lane

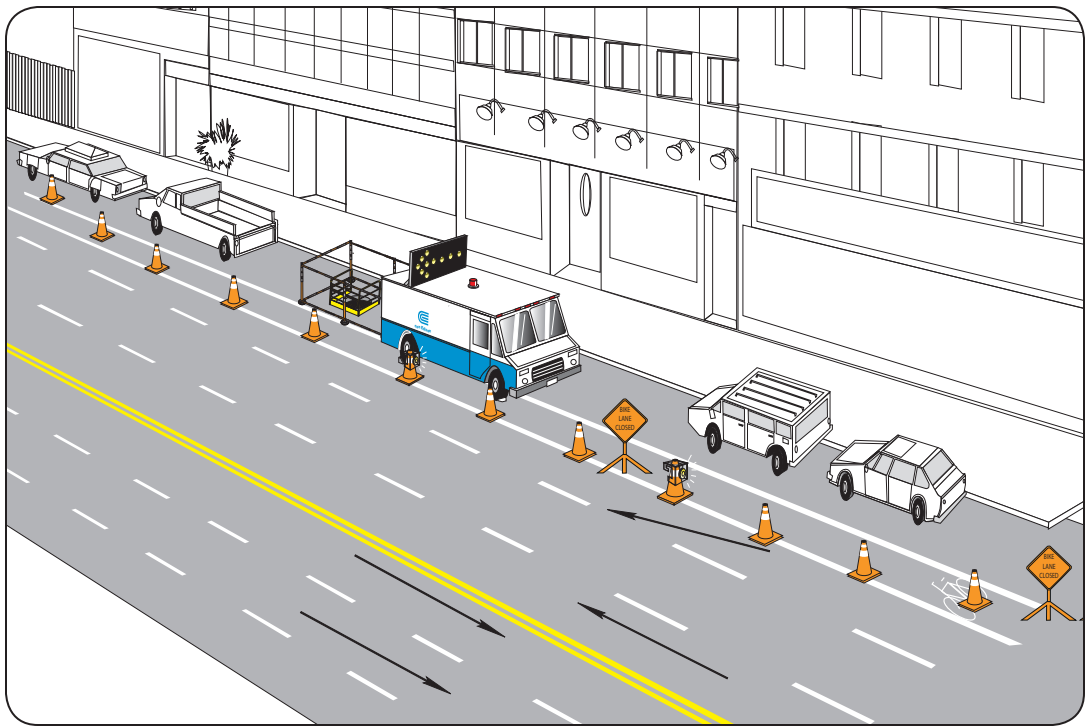
This configuration is generally applicable to comparable work areas with similar road conditions.

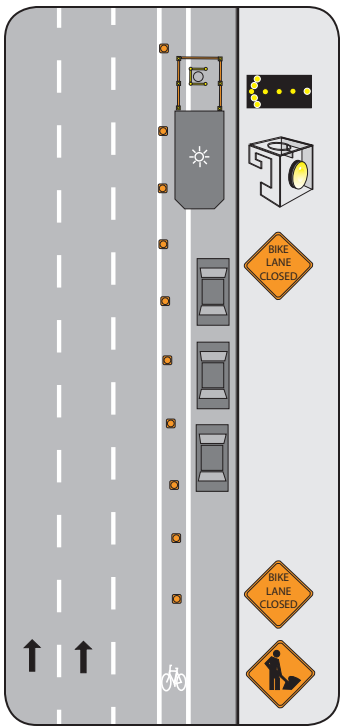
Setup

- Assign two flaggers while the work area is being prepared.
- Place the advance-warning signs on the far side of the intersection for traffic traveling upstream and for traffic that is restricted from turning into that lane.
- Place the "Bike Lane Closed" advance warning sign 350 feet and 200 feet prior to work zone, and also post at work zone.
- Place traffic cones so that the traffic is tapered away from the work area for oncoming traffic, while maintaining the bike lane.
- Maintain pedestrian access to crossings not affected by the work area.
- Set up stanchions with telescoping rails to extend around work areas. (Tape may be used when pedestrians have restricted access to the work area.)

Equipment

- Advance-warning signs ("Worker Symbol," "Work Area Ahead," or "Utility Work Ahead")
- Bike lane closed sign
- Flags (optional)
- 28" or 36" traffic cones
- 2 lane-closure signs (arrow board or flashing-arrow panel)
- Stanchions and telescoping rails
- Manhole guardrail and telescoping rails





Blueprint of work area

Diverting traffic into an oncoming lane

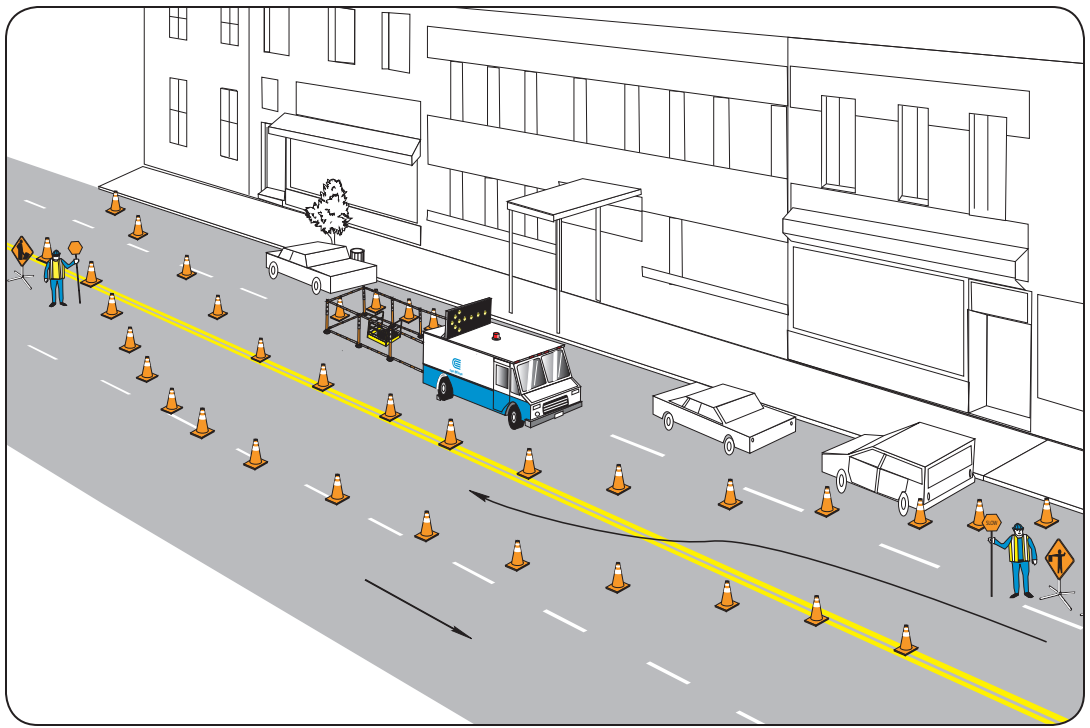
This configuration is generally applicable to comparable work areas with similar road conditions.

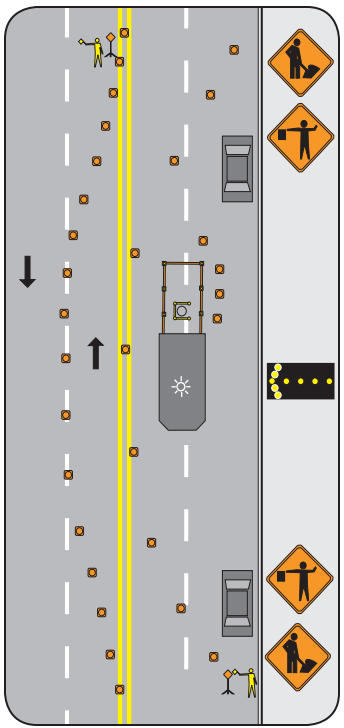
Setup

- Assign two flaggers while the work area is being prepared.
- Place the advance-warning sign at the beginning of both ends of the tapered work zone for both sides of oncoming traffic.
- Place the "Lane Closed" sign to appear in plain view after the advance-warning signs for traffic traveling toward the one closed lane.
- Place the flashing-arrow panel for traffic approaching on both sides of the double yellow line, directing the the traffic away from the work area.
- Place traffic cones so that the oncoming traffic is tapered away from the work area.
- Place traffic cones to ease the downstream traffic flow and maintain separation of traffic flowing in the opposite direction.
- Set up stanchions with telescoping rails around work set up behind the vehicle.

Equipment

- 2 advance-warning signs ("Worker Symbol," "Work Area Ahead," or "Utility Work Ahead")
- Flags (optional)
- 28" or 36" traffic cones
- 2 lane-closure signs (arrow board or flashing-arrow panel), whichmust direct traffic coming from both directions
- Stanchions and telescoping rails around work area
- Manhole guardrail





Blueprint of work area

Setup for Excavations in Sidewalk Area Re-directing Pedestrian Traffic

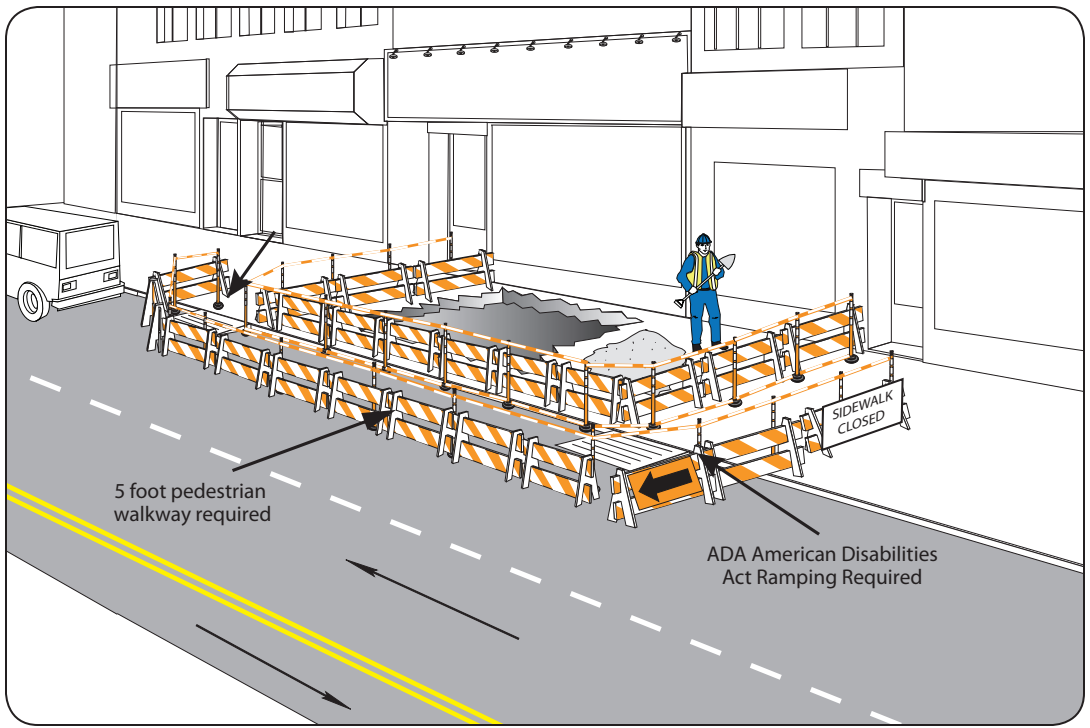
This configuration is generally applicable to comparable work areas with similar road conditions.

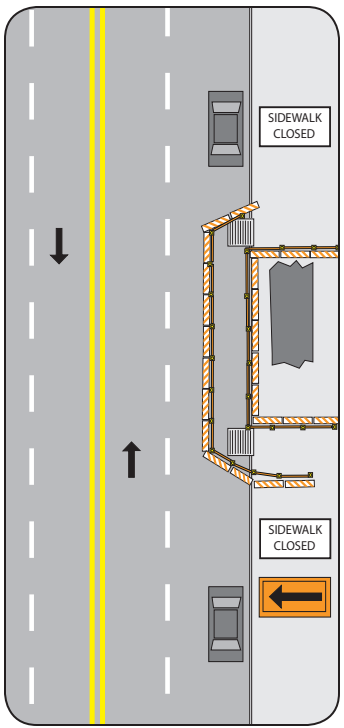
Setup

- Where necessary, assign a flagger while the work area is being prepared.
- Place sturdy barricades around the excavation work area.
- Place stanchions with telescoping rails to channel pedestrians around work area.
- Install ramps at curb entrance and exit of pedestrain passageway.
- Filled Pel bags should be placed in work area.
- Post "Sidewalk Closed" sign near setup.
- Post "Sidewalk Closed Use Other Side" sign on both sides of work area, at the nearest corners, to restrict pedestrian traffic on the work side of the street.

Equipment

- Type III barricades or barricades equipped with 2 rails
- Stanchions with telescoping rails
- Directional-arrow signs
- Sidewalk closed signs
- Ramps





Blueprint of work area

Setup for Excavation Near Curbside in Vehicle Parking Lanes

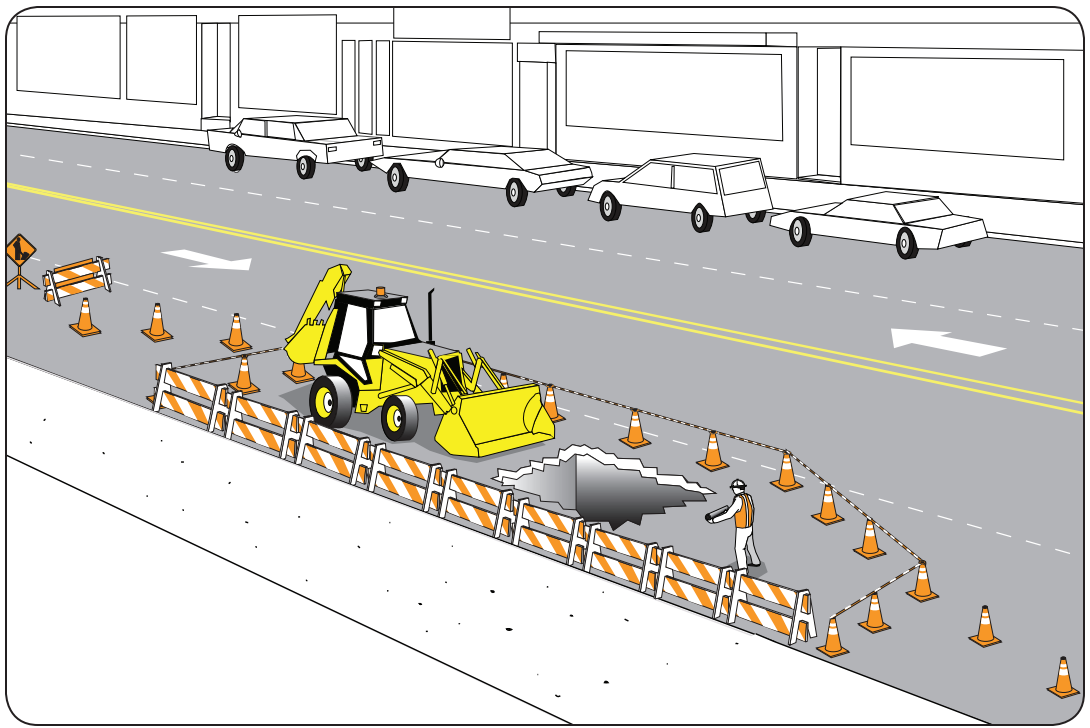
This configuration is generally applicable to comparable work areas with similar road conditions.

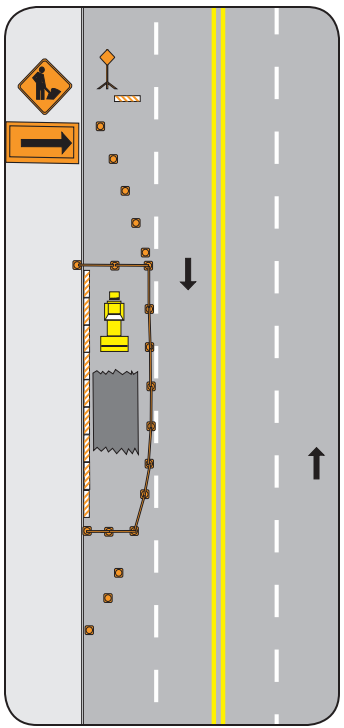
Setup

- Place sturdy barricades around the excavation work area.
- Cones with telescoping rails may be used around work area closed to vehicle traffic (optional).
- Lane-closure sign (arrow board or flashing-arrow panel).
- Type B flashers (optional).
- Advance–warning sign at the beginning of the tapered work zone.
- Filled Pel bags should be placed inside the work area nearest barricades that are most at risk of impact from oncoming traffic.

Equipment

- Type III barricades or barricades equipped with 2 rails
- Directional-arrow signs
- 28"-36" traffic cones
- Advance–warning sign
- Telescoping rails





Blueprint of work area

Setup for Excavations Near Intersections and Crosswalks While Redirecting Pedestrians

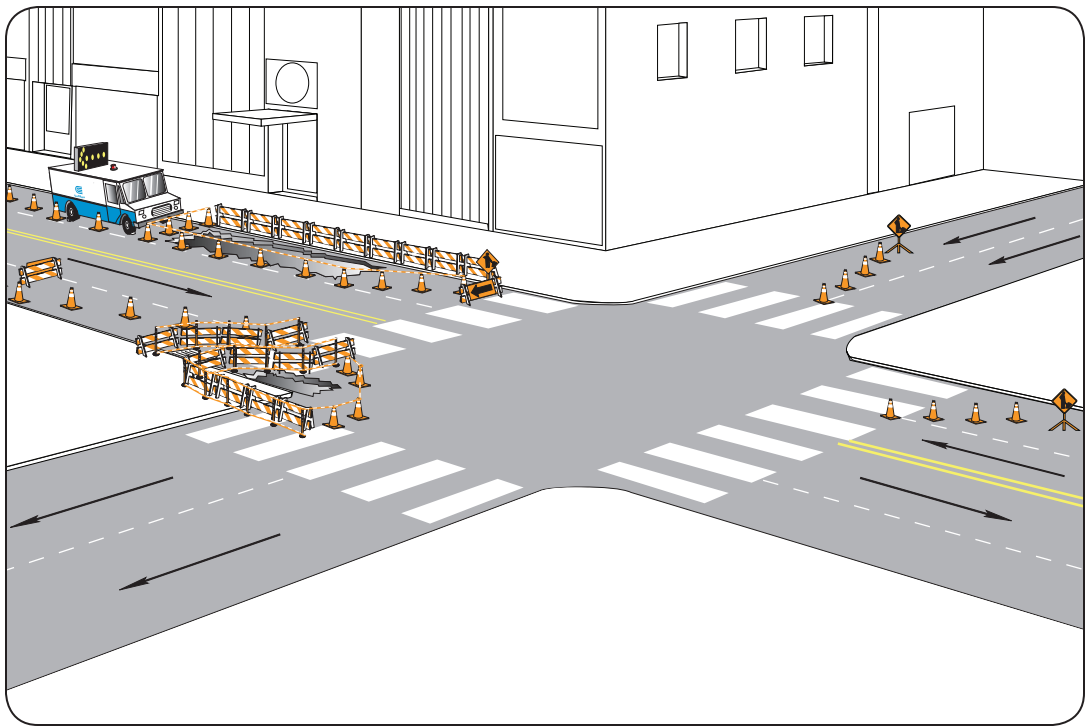
This configuration is generally applicable to comparable work areas with similar road conditions.

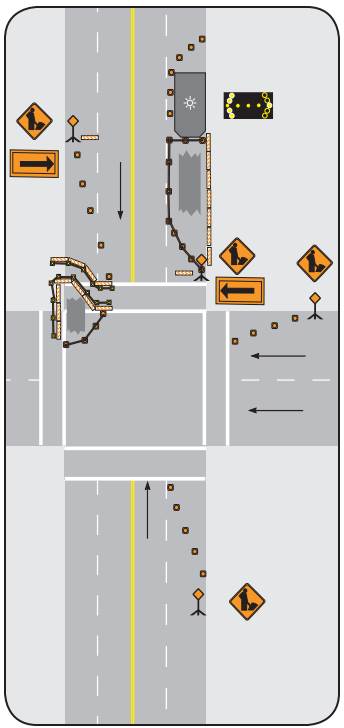
Setup

- Place sturdy type barricades around the excavation work area.
- Post the "Pedestrian Crossing" sign to redirect pedestrian traffic.
- Place Type B flashers on barricades at pedestrian crossing.
- Filled Pel bags should be placed inside the work area nearest barricades that are most at risk of impact from oncoming traffic.
- Maintain pedestrian safety from upstream traffic at all relocated crossings with placement of Type III barricades or barricades equipped with a bottom rail, no more than 6 inches above street level, and a top rail at least 36 inches high (see Protection of Pedestrians, page 17).

Equipment

- 4 advance-warning signs ("Worker Symbol," "Work Area Ahead," or "Utility Work Ahead")
- Flags (optional)
- 28" or 36" traffic cones
- 1 lane-closure sign (arrow board or flashing-arrow panel)
- Type III barricades or barricades equipped with two rails
- Stanchions, telescoping rails
- "Pedestrian Crossing" sign (optional)





Blueprint of work area

Setup for Boom Truck for Transformer Installment

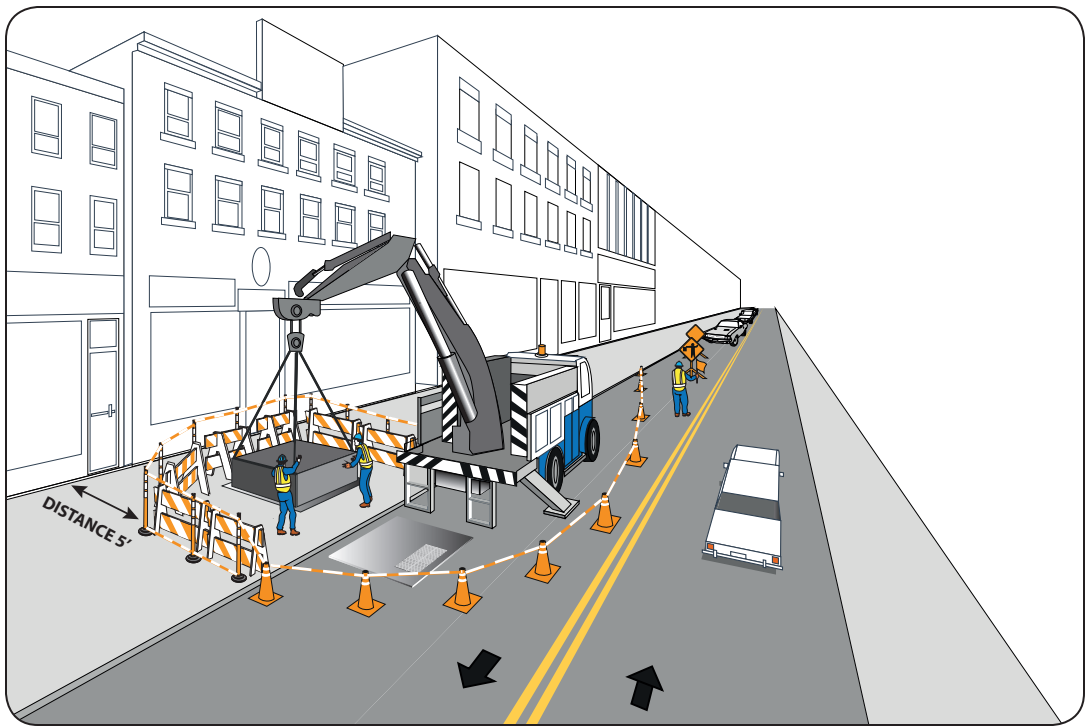
This configuration is generally applicable to comparable work areas with similar sidewalk conditions.

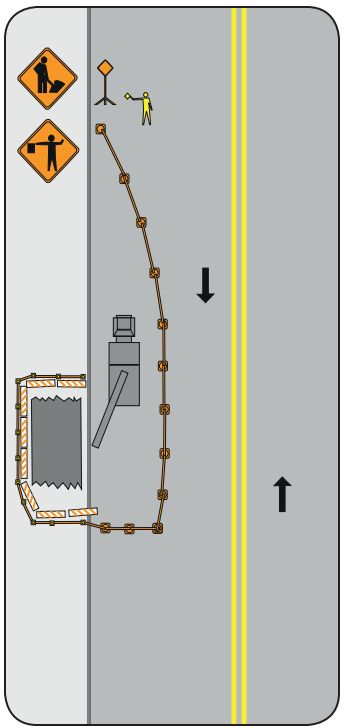
Setup

- Type 2 barricades (upper and lower rails) must be used in sidewalk area placed around the subsurface structure.
- Secure work area with cones/ telescoping rails combination in roadway.
- Install advance warning to pedestrians.
- Open underground structure covers.
- Use manhole guardrails when feasible.

Equipment

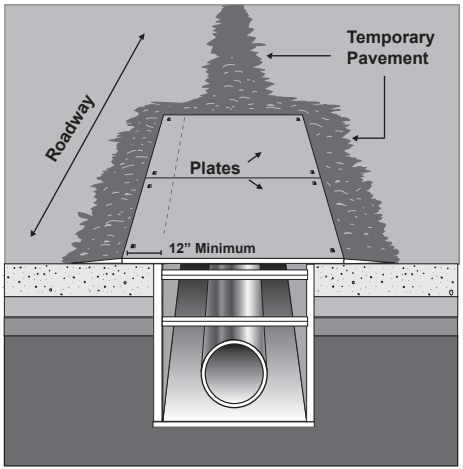
- Advance–warning sign (“Worker Symbol,” “Work Area Ahead,” or “Utility Work Ahead”)
- Flagger ahead sign
- Type 2 barricades
- 28” or 36” traffic cones
- Stanchions and telescoping rails





Blueprint of work area

Excavation Operations



Where operations require open trenches, plates should be used to maintain passageways for pedestrians and traffic lanes for vehicles.

- Plates must be large enough to span the opening, have a minimum bearing area one (1) foot wide on each side of the trench, and must be adequate to carry the load.
- Trench walls and adjacent soil must be sufficiently stable to use plates.
- Areas at the edge of plates must be tapered to provide smooth riding and safe walking conditions. ***It is important to avoid pedestrian tripping hazards or plate movement.***
- Plates must be fastened with spikes in pre-drilled holes, or spiked securely from the side to prevent movement off the openings.
- For wide trenches or unstable soil conditions, consider constructing temporary bridges.

Sign Placement During Winter Months and the Winter Moratorium

- Signs must be posted five feet prior to the steel plate(s) throughout the winter months, *regardless of weather conditions*.
- On two-way streets, signs must be posted on both sides of the street (i.e., on sidewalks) five feet prior to the steel plates.

The Winter Moratorium requires special handling of steel plates in travel lanes.

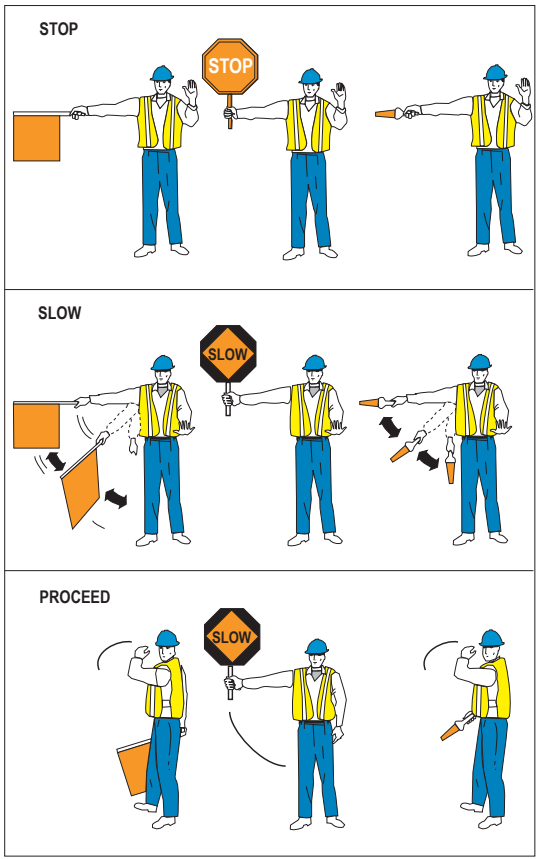
- Between December 1 and March 1, all steel plates in a travel lane must be recessed (countersunk), except if work can be completed within five working days from the permit work start date. In that case, steel plates can be pinned and ramped.
- Signs indicating Steel Plates Ahead or Raise Plow are required between December 1 and March 1, *even if steel plates are countersunk*.

Flagger at Work Sites

A flagger will be required for certain work operations where the traffic must be stopped or controlled. Flagging is a form of communication with the motorist. The language of flagging consists of only three signals: STOP, SLOW, and PROCEED.

When traffic in both directions must use a single lane for a limited distance, movements from each end must be coordinated. Provisions should be made for alternate one-way movement through the constricted section via methods such as flagger control, a flag transfer, a pilot car, traffic-control signals, or stop, or yield control. Control points at each end should be chosen to permit easy passing of opposing lanes of vehicles. If traffic on the affected one-lane roadway is not visible from one end to the other, then flagging procedures, a pilot car with a flagger, or a traffic-control signal should be used to control opposing traffic flows.

- Flaggers must wear approved safety apparel available in Class & Stock that is compliant with American National Standard for High-Visibility Apparel, ANSI 107-2010, ASTM 1506 HRC 1, Class 2 or 3 risk exposure.
- The flagger must be clearly visible at all times to approaching traffic for a distance sufficient to permit proper response by the motorist to the flagger's instructions and to permit traffic to reduce speed before entering the work zone.



- The "Flagger Ahead" sign must go before the flagger station, and the flagging station should be well ahead of the work area.
- The flagger station should be located at the start of the taper.
- The flagger should always face the oncoming traffic and make eye contact with the lead motorist.
- The flagger should stand alone, never permitting a group of workers to congregate around the flagger station.
- Flaggers will focus on the task at hand, directing traffic, and shall not be distracted by other factors, including, but not limited to, personal cell phones, electronic devices, and the like.
- When the situation requires the use of flags, only approved flags shall be used.
- When two flaggers are used, one flagger will be designated as the lead flagger.
- When two flagging stations are not visible to one another, radio communication is required or a third flagger may be stationed at a point visible in between each flagging station.
- If the flagging stations are too far apart for verbal communications, the flag transfer method of one-lane, two-way traffic control may be used. In this method, the driver of the last vehicle proceeding into the one-lane section is given a red flag and instructed to deliver it to the flagger at the other end. The opposite flagger, upon receipt of the flag, then knows that it is reasonably safe to allow traffic to move in the other direction.
- Flaggers must be illuminated at night.
- Floodlights must not produce a disabling glare condition for approaching road users, flaggers, or workers.

Stock Numbers and Descriptions

This list of stock numbers and device descriptions will help you identify the exact equipment needed to safely complete field operations.

Numbers	Description
059-6007	Chock galvanized steel
587-0894	Sign; Symbol of men working with case provided
024-7601	Sign; Bike lane ahead legend, 36" diamond shape, reflective
024-7619	Sign; Bike lane closed for work area protection
024-7429	Sign; Flagger ahead symbol, 36" diamond shape, reflective
024-7742	Sign; Lane closed ahead, 36"x36" diamond shaped
024-7510	Sign; Road closed
024-7486	Sign; Sidewalk closed
587-1298	Stand; Work area protection-advance warning
587-0491	Light; Portable compact rotary 360 degree beacon

Numbers	Description
059-4812	Guard; Manhole-sub surface protection devices
686-0274	Stanchion base
686-0282	Stanchion pole
059-1487	Tape; Safety barrier
059-5520	Retractable cone — bar extends from 6' to 10' orange white
NS0108630	Barricade; Rail
NS0108629	Barricade; A-frame
NS0108632	28" cone
NS0108631	36" cone
024-1984	Flag; Red danger
680-0107	Safety vest; S/M
680-0102	Safety vest; L/XL
680-0101	Safety vest; 2XL/3XL
587-1579	LED work area protection lights



May 2014

Appendix D

Community Air Monitoring Program

1.1 Community Air Monitoring Plan

Real-time air monitoring for volatile compounds and particulates at the perimeter of the hot zone will be performed.

- Volatile organic com pounds (VOCs) will be monitored at the downwind perimeter of the hot zone if total organic vapors in the worker breathing zone exceed 5 ppm above background. Monitoring will be conducted with a PID equipped with a 10.2 or 10.6 eV lamp. If total organic vapor levels exceed 1 ppm above background at the perimeter, excavation activities must be halted and monitoring continued. All readings must be recorded and be available for State (New York Department of Environmental Conservation [NYSDEC] & New York State Department of Health [NYSDOH]) personnel to review.
- Particulates will be monitored in the worker breathing zone. If the particulate levels in the worker breathing zone exceed 150 mg/m^3 downwind monitoring will also be performed. Monitoring of the particulate levels downwind of the hot zone will be performed with a portable particulate monitor that will have an alarm set at 150 mg/m^3. Background particulate levels will be established at the start of downwind monitoring. If downwind particulate levels, integrated over a period of 15 minutes, exceed 150 mg/m^3, then particulate levels upwind of the survey or work site will be measured. If the downwind particulate level is more than 100 mg/m^3 greater than the upwind particulate level, then excavation activities will be stopped and dust suppression techniques will be employed. Activities will also cease and corrective action will be taken if particulate levels exceed 2.5 times the background particulate level. All readings must be recorded and be available for review by the NYSDEC and/or NYSDOH. These action levels will be modified if particulates are better characterized and identified.

1.1.1 Vapor Emission Response Plan

If the ambient air concentration of organic vapors exceeds 1 ppm above background at the perimeter of the hot zone, excavation activities will be halted or odor controls will be employed, and monitoring continued. If the organic vapor level decreases below 1 ppm above background, excavation activities can resume provided:

- The organic vapor level 200 ft. downwind of the hot zone or half the distance to the nearest residential or commercial structure, whichever is less, is below 1 ppm over background; and
- More frequent intervals of monitoring, as directed by the site safety officer (SSO; identified in the Health and Safety Plan), are conducted.

If the organic vapor level is greater than 1 ppm above background at the perimeter of the hot zone, work activities must be shut down or odor controls must be employed. When work shut-down occurs, downwind air monitoring as directed by the SSO will be implemented to ensure that vapor emission does not impact the nearest residential or commercial structure at levels exceeding those specified in the Major Vapor Emission section.

1.1.2 Major Vapor Emission

If any organic levels greater than 1 ppm over background are identified 200 feet downwind from the work site, or half the distance to the nearest residential or commercial property, whichever is less, all work activities must be halted or odor controls must be implemented.

If, following the cessation of the work activities, or as the result of an emergency, organic levels persist above 1 ppm above background 200 feet downwind or half the distance to the nearest residential or commercial property from the hot zone, then the air quality must be monitored within 20 feet of the perimeter of the nearest residential or commercial structure (20 Foot Zone).

If either of the following criteria is exceeded in the 20 Foot Zone, then the Major Vapor Emission Response Plan shall automatically be implemented.

- Sustained organic vapor levels approaching 1 ppm above background for a period of more than 30 minutes, or
- Organic vapor levels greater than 5 ppm above background for any time period.

1.1.3 Major Vapor Emission Response Plan

Upon activation, the following activities will be undertaken:

1. The local police authorities will immediately be contacted by the SSO and advised of the situation;

2. Frequent air monitoring will be conducted at 30 minute intervals within the 20 Foot Zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the SSO; and

3. All Emergency contacts (identified in the Health and Safety Plan) will go into effect as appropriate.

Appendix E

Forms

S3NA-210-FM Tailgate Safety Meeting Log

This sign-in log documents the topics of the tailgate safety briefing and individual attendance at the briefing. Personnel who perform work operations onsite are required to attend each safety briefing and acknowledge their ability to ask questions and receipt of such briefings daily. Please provide a brief narrative of the following topics as applicable to the Project.

Name of Meeting Leader	Signature

PROJECT NAME & LOCATION

PROJECT NO.	DATE/TIME	WEATHER CONDITIONS

TOPIC *Discussion – check one*					
Today's Scope of Work (All tasks)	☐ yes	☐ n/a	Access / Egress / Slips, Trips, & Falls	☐ yes	☐ n/a
Schedule / New Work / Scope Changes	☐ yes	☐ n/a	Smoking, Eating, & Drinking	☐ yes	☐ n/a
Reviewed Procedures, THA, etc.	☐ yes	☐ n/a	Washroom / Facilities Location	☐ yes	☐ n/a
Emergency Action Plan & Procedures	☐ yes	☐ n/a	Heat/Cold Stress	☐ yes	☐ n/a
Communications Protocol	☐ yes	☐ n/a	Exclusion Areas Barricades / Cones	☐ yes	☐ n/a
Required PPE	☐ yes	☐ n/a	Required Permits, Passes, Keys, etc.	☐ yes	☐ n/a
Required Monitoring / Instruments	☐ yes	☐ n/a	Decon Procedures / IDW Mgmt.	☐ yes	☐ n/a
Site Control / Work Zones / Security	☐ yes	☐ n/a	Eqpmt. Inspections/Safety Checklists	☐ yes	☐ n/a

COMMENTS/OTHER

Tailgate Meeting Attendees

Print Name	Signature

PRINTED COPIES ARE UNCONTROLLED. CONTROLLED COPY IS AVAILABLE ON COMPANY INTRANET

Visitor Sign-In Log

Site: **Project Number:**
Location: **Site Engr.:**
Project Mgr.: **Site EHS Officer:**

Date	Name	Affiliation	Purpose of Visit	Site EHS Training		Do you have Level D PPE?		Time In	Time Out
				Yes	No	Yes	No		

Field Equipment Calibration/Maintenance Log

Client:_____ **Project No.:**_____
Location:_____ **Site Eng.:**_____
Project Mgr.:_____ **Site EHS Officer:**_____

Date	Type of Equipment[1]	Equipment ID Number	Procedure[2]	Reference Standards[3]	Initials of Individual	Company	Calibration OK Yes/No

Maintenance Required/Procedures:_____

[1]Certifications or statements of manufacturer calibration can be obtained f

[2] Use space below if necessary

[3] Type of calibration gas used and concentration; buffer solutions, etc.

Drill Rig Inspection Log

Project Name: _____ **Project Number:** _____

Date: _____ **Subcontractor Audited:** _____

Auditor: _____

General Safety		
Safety Officer Designated for Job:	☐ Yes	☐ No
Name:		
Safety Meeting Performed (Daily)	☐ Yes	☐ No
Personal Protective Equipment (PPE)		
Hard Hats	☐ Yes	☐ No
Safety Glasses	☐ Yes	☐ No
Steel Toed Boots	☐ Yes	☐ No
Hearing Protection	☐ Yes	☐ No
Work Gloves	☐ Yes	☐ No
Orange Work Vests	☐ Yes	☐ No
Traffic Cones and Signs	☐ Yes	☐ No
Other	☐ Yes	☐ No
Disposal of PPE in Proper Waste Containers (if applicable)	☐ Yes	☐ No
Comments:		
Daily Inspections of Drill Rig:		
Structural Damage, Loose Bolts	☐ Yes	☐ No
Proper Tension in Chain Drives	☐ Yes	☐ No
Loose or Missing Guards, Fluid Leaks	☐ Yes	☐ No
Damaged Hoses and/or Damaged Pressure	☐ Yes	☐ No
Gages and Pressure Relief Valves	☐ Yes	☐ No
Comments:		

Check and test all safety devices such as:		
Emergency shutdown switches, at least daily	☐ Yes	☐ No
All gages and warning lights and ensure control levers are functioning properly	☐ Yes	☐ No
First Aid and fire extinguishers on drill rig	☐ Yes	☐ No
Back up alarm functioning properly	☐ Yes	☐ No
Comments:		

Drill Crew Training Requirements:		
40-hour OSHA Training	☐ Yes	☐ No
8-hour Annual Refresher Training	☐ Yes	☐ No
Drill Rig Training/Safe Operating Practices	☐ Yes	☐ No
First Aid/CPR	☐ Yes	☐ No
Emergency Procedures	☐ Yes	☐ No
Emergency Phone Numbers Posted	☐ Yes	☐ No
Site Orientation	☐ Yes	☐ No
Health and Safety Plan Review	☐ Yes	☐ No
Comments:		

Housekeeping:		
Suitable storage for tools, materials, and supplies	☐ Yes	☐ No
Pipes, drill rods, casing, and augers stacked on racks to prevent rolling and sliding	☐ Yes	☐ No
Platforms and other work areas free of debris materials and obstructions	☐ Yes	☐ No
Comments:		

Hand Tools:		
Tools in good condition	☐ Yes	☐ No
Broken tools discarded and replaced	☐ Yes	☐ No
Right tool used for the right job	☐ Yes	☐ No
Comments:		

Drilling Operations:		
Mast or derrick down when moving rig	☐ Yes	☐ No
Overhead obstructions identified before mast is raised	☐ Yes	☐ No
Drill rig stabilized using leveling jacks or solid cribbing	☐ Yes	☐ No
Secure and lock derrick	☐ Yes	☐ No
Comments:		

Overhead and Buried Utilities:		
Buried utilities identified and marked	☐ Yes	☐ No
Safe distance of drill rig from overhead power lines	☐ Yes	☐ No
Comments:		

Wire Line Hoists Wire Rope and Hardware:		
Inspection for broken wires where reduction in rope diameter, wire diameter, fatigue, corrosion, damage from gear jamming, crushing, bird caging, kinking	☐ Yes	☐ No
Inspect and lubricate parts daily	☐ Yes	☐ No
Comments:		

Auger Operations - What to look for:

- A system of responsibility between the operator and the tool handler when connecting and disconnecting auger sections and inserting and removing auger fork.
- During connecting and disconnecting auger sections and inserting auger for the tool, handler should position himself away from the auger column while it is rotating.
- When securing the auger to the power coupling, pin should be inserted and tapped into place using a hammer or other similar device.
- Tool hoist should be used to lower second section of auger into place.
- Both operators should be clear of auger as it is being lifted into place.
- Long-handled shovel should be used to move dirt away from auger.

Overall Summary:

Field Equipment/Tool Inspection Checklist

Equipment/Tool Inspected: _____

Site: _____ **Inspected by:** _____

Date: _____ **Title:** _____

Item #	Item Inspected	Description	Pass	Fail	N/A
1	Equipment Operator	Equipment operator has had proper training and is familiar with equipment and operational features.			
2	Hydraulic Lines	Hydraulic lines are secure and no leaks. Hoses are in good condition with no cracks or breaks.			
3	Pipe, Hoses, and Fittings	Discharge hoses and pipes are secure and no leaks. Fittings are tight, secure, and not leaking.			
4	Power/Extension Cords	Power/extension cords are in one piece with no frays or breaks. Plug ends are in good working order.			
5	GFI and Grounding	A ground fault interrupter is in place for electrical equipment and is in good working order. Grounding cable in place and operable for drilling or liquids transfer.			
6	Safety Guards	All equipment/tool safety guards are in place and in operation. Rotating and thermal guards.			
7	Windows and Mirrors	Equipment windows and mirrors are in good condition to ensure operator visibility.			
8	Wheels and Tires	Equipment wheels and tires are in good working order. Proper inflation.			
9	Engine Oil Fluids	Engines or motors are properly lubricated and cooled. No leaks are present. Oil and coolant levels full.			
10	Tool Handles	Tool handles are secure and not broken. Grips are not worn or missing.			
11	Blades	Cutting blades are sharp and securely fastened to the equipment or tool.			
12	Fall Protection	Harnesses and lifelines are secure and in good			

Item #	Item Inspected	Description	Pass	Fail	N/A
		condition. Buckles and fasteners in good condition.			
13	Ingress and Egress to Equipment	Steps, handrails, etc. are secured and functioning properly. Steps are free of ice and mud.			
14	Lights and Signals, Alarms	Lights and signals operate properly. Backup alarm working properly.			
15	Lockout/Tagout	Battery disconnect switch in place to prevent unauthorized use. Lockout/tagout system in place to prevent energizing.			
16	Fire Extinguishers	Fire extinguisher in place, or available close by, for emergency fire protection.			
17	Ignition and Controls	Ignition and controls intact with no loose wiring.			

Notes (Reference Item#)

Client: _____
Location: _____
Date: _____
Field Personnel: _____

Project Number: _____
Weather: _____
Ambient Noise: _____

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments

DIRECT PUSH BORING LOG

Boring No.:

PROJECT:					PAGE 1 OF
PROJECT No.:			CONTRACTOR:		DATE:
LOCATION:			DRILLERS NAME:		AECOM REP.:
WATER LEVELS			DESIGNATION OF DRILL RIG:		
DATE	TIME	DEPTH	SIZE AND TYPE OF EQUIPMENT:		
			REFERENCE ELEVATION:	DEPTH OF BOREHOLE:	
			THICKNESS OF OVERBURDEN:	DISPOSITION OF BOREHOLE:	
LABORATORY ANALYSES:					

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

DIRECT PUSH BORING LOG

Boring No.:

PROJECT:

PROJECT No.:

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

DIRECT PUSH BORING LOG

Boring No.:

PROJECT:

PROJECT No.:

Depth (ft)	Sample Number & Time	Rec. (feet)	PID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

		INVESTIGATION-DERIVED WASTE LOG SHEET							
		Location					No. of Drums:		
		Site							
		Job Name & #					Inventory Date:		
Waste Source	Drum ID Number	Date Generated	Cross Reference to Specific Sample	Contents (solid/liquid)	Approximate Volume	Drum Location/ Comments	Date Moved to Staging Area	Date Removed Removed From Staging Area	Final Disposition

		INVESTIGATION-DERIVED WASTE LOG SHEET							
		Location					No. of Drums:		
		Site							
		Job Name & #					Inventory Date:		
Waste Source	Drum ID Number	Date Generated	Cross Reference to Specific Sample	Contents (solid/liquid)	Approximate Volume	Drum Location/ Comments	Date Moved to Staging Area	Date Removed Removed From Staging Area	Final Disposition

INVESTIGATION-DERIVED WASTE LOG SHEET

Location **No. of Drums:**

Site

Job Name & # **Inventory Date:**

Waste Source	Drum ID Number	Date Generated	Cross Reference to Specific Sample	Contents (solid / liquid)	Approx. Volume	Drum Location / Comments	Date Moved to Staging Area	Date Removed Removed From Staging Area	Final Disposition

WELL NO.

WELL DEVELOPMENT FORM	PROJECT	PROJECT No.	SHEET 1 OF SHEETS 1
1. LOCATION	4. DATE WELL STARTED		5. DATE WELL COMPLETED
2. CLIENT	6. NAME OF INSPECTOR		
3. DRILLING COMPANY			

ONE WELL VOLUME : gallons WELL TD: ft PUMP INTAKE: ft

Time	Depth to Water (ft)	Purge Rate (gal/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	

Pump Type: _____

WELL NO.

WELL SAMPLING FORM	PROJECT	PROJECT No.	SHEET 1 OF SHEETS 1
LOCATION		DATE WELL STARTED	DATE WELL COMPLETED
CLIENT		NAME OF INSPECTOR	
DRILLING COMPANY		Well Diameter in / ft	

ONE WELL VOLUME : gallons WELL TD: ft PUMP INTAKE DEPTH: ft

Time	Depth to Water (ft)	Purge Rate (mL/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (°C)	Conduct. (µs/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (ntu)	

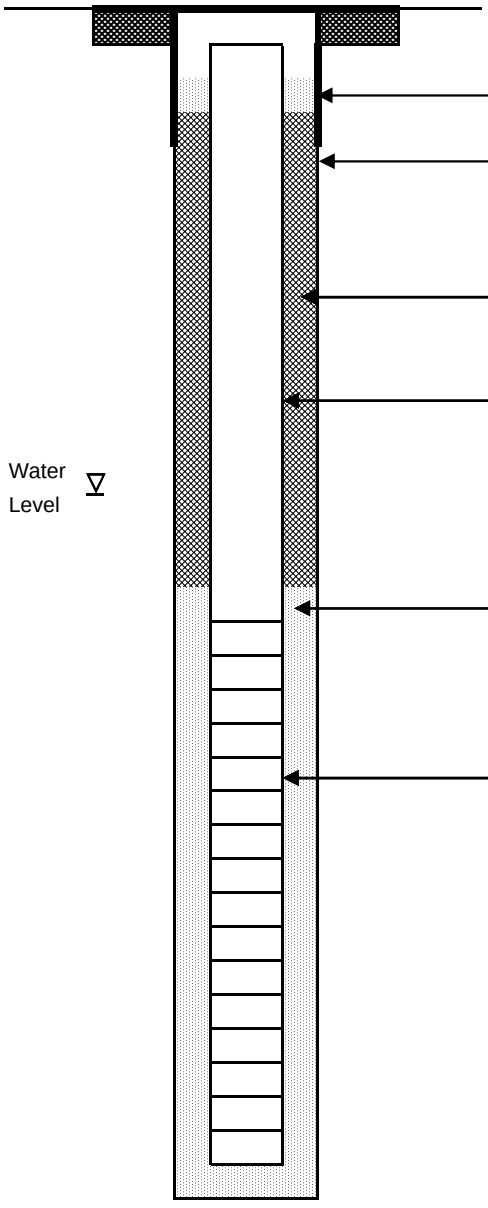
Pump Type: _____

Analytical Parameters: _____

MONITORING WELL CONSTRUCTION LOG **Well No.**

Project:	Location:	Page 1 of 1
Project No.:	Subcontractor:	
Surface Elevation:	Driller:	
Date of Construction:	Oversight:	

NOTE: Well installed using 3.25 OD geoprobe rods and 2 inch ID prepack wells. No room for tremie grout.



Locking protective flushmount with concrete pad

Ground Surface 0.0 ft

Sand from _____ ft to _____ ft

Borehole diameter _____ inches

Bentonite from _____ ft to _____ ft

Riser Pipe from _____ ft to _____ ft

Filter pack from _____ ft to _____ ft

Sand Size _____

Well screen from _____ ft to _____ ft

Diameter _____ inches

Slot size _____ inches

Type _____

Bottom Cap at _____ ft

Bottom of Borehole at _____ ft

Note: All measurements based on ground surface at 0.0 feet. (+) above grade. (-) below grade.

(NOT TO SCALE)