June 6, 2024

Ms. Meghan Medwid
Project Manager
Division on Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7016

Subject: Interim Remedial System Optimization Measures Workplan
Former Charlton Cleaners
24 Barrett Avenue
Staten Island, Richmond County, New York
Site ID No. 243018

Dear Ms. Medwid:

Camp Dresser McKee & Smith (CDM Smith) has prepared this Interim Remedial System Optimization Measures (IRSOM) Workplan to detail the actions to be conducted at the former Charlton Cleaners site, hereinafter referred to as "the Site," located at 24 Barrett Avenue in Staten Island, Richmond County, New York. The measures detailed in this Workplan are intended to restore the existing groundwater and soil vapor treatment system at the Site to operation, as well as expand the vapor extraction portion of the system. This scope of work is based on a Site inspection performed on May 9, 2023, sampling performed on May 25, 2023, and a site visit with NYSDEC's on-call contractor on February 9, 2024. This project is part of the New York State Department of Environmental Conservation (NYSDEC) Work Assignment # D009805-20 under the NYSDEC Standby Contract No. D009805.

1.0 Site Description and Background

The former Charlton Cleaners is located in the southeast portion of the Forest Avenue Shoppers Town Shopping Center located on Staten Island Block 1053, Lot 138 as shown on **Figure 1**. The former Charlton Cleaners occupied the 2,040 square feet northeast portion of the 18,300 square foot building that is currently occupied by a Michaels craft store. The building includes a partial basement measuring 35-feet by 115-feet beneath the eastern side of the Michaels building. The remainder of the building is constructed as slab-on-grade. As illustrated on **Figure 2**, the basement includes two zones that contain equipment associated with building operations and prior remedial activities conducted at the Site:

- North Zone
  - Equipment Room:
    - Large North Sump Pit (four-feet wide by three-feet deep constructed of cast iron), which existed during the Charlton Cleaners operation.
    - Electrical panels for the Michaels building and other electrical service.
    - Potable water and natural gas services enter this room from Barrett Avenue.

- West Room
  - Two liquid phase granular activated carbon (LPGAC) filters, piped in series.
  - Several electrical panels mounted on the northern wall.

- Remaining Basement:
  - Vapor phase granular activated carbon (VPGAC) filter piped to a 4-inch polyvinyl chloride (PVC) duct that vents to the roof.
  - Second North Sump.
  - South Sump Pit.

The Site is currently surrounded by commercial and residential properties.

Until 1994, the Site building was occupied by Charlton Cleaners along with other small retailers. The building has since been remodeled and is occupied by Michaels, a craft supply retailer. Prior use as a dry-cleaning operation has led to the Site being impacted. Based upon investigations conducted to date, the primary contaminants of concern (COCs) at the Site are tetrachloroethylene (PCE), and PCE's breakdown products including trichloroethylene (TCE), cis-1,2 dichloroethylene (cis-1,2-DCE) and vinyl chloride. Site investigations indicate that contamination does not exist in unsaturated soil on-site. However, groundwater and soil vapor beneath the building, as well as indoor air are impacted with the COCs. The Site has been determined a significant threat to human health and the environment and has been classified as a Class 2 hazardous waste site.

The groundwater plume is narrow and has been delineated laterally below the New York State Ambient Water Quality Standard (AWQS) of 5 micrograms per liter (ug/L). The plume is approximately 3,000-feet long from Barrett Avenue to Hurst Avenue and extends from the groundwater table to approximately 100 feet below ground surface (bgs). Investigations concluded that mass transport occurs primarily in shallow glacial outwash and travels downgradient into the deep glacial till. Concentrations of contaminants decreased from approximately 7,000 ug/L to < 100 ug/L from Barrett Avenue to Hurst Avenue. The area's hydrogeology assists in maintaining the narrow shape of the plume due to topographic and bedrock valleys.

The Charlton Cleaners operations building was investigated by the property owners under a Voluntary Cleanup Program (VCP) agreement with NYSDEC and assigned Site identification #V00252. In August 2017, the volunteer entered a cash-out Order of Consent. NYSDEC is implementing the remedial program for this Site (former VCP Site).

2.0 Prior Interim Remedial Measures

Several interim remedial measures (IRMs) were completed at the Site between 2007 and 2009. These measures were detailed in the November 2009, Interim Remedial Measure Report prepared by Leggette, Brashears, & Graham, Inc. provided as *Attachment 1*. The following presents a summary of the IRMs performed:

- IRMs completed in 2007 and 2008:

- Installation of a 40-mil high density polyethylene (HDPE) vapor barrier on the floor of the Michaels building basement with a new four-inch concrete floor poured above the existing floor. The total thickness of the floor after the additional concrete installation became approximately 12-inches.
- Installation of lids on three basement sumps to reduce vapor infiltration in the basement.
- Alteration of the rooftop HVAC system to increase the percentage of outdoor ambient air mixed into the building air to dilute the VOCs.

- IRMs completed in 2009:
  - Performed by the owner (KIOP Forest Avenue, L.P.) under the NYSDEC VCP #V00252.
  - All work was completed in the Equipment Room and the West Room.
  - Soil and groundwater sampling conducted:
    - Soil near the large north sump was hand excavated, inspected, and screened with a calibrated photoionization detector (PID). No visual staining was observed.
    - Four (4) soil borings were installed: Two beneath the West Room floor (designated as B-1 and B-2) and two in the Equipment Room (designated as B-3 and B-4). Soil samples were collected at approximately two feet and six feet below the concrete slab from each boring.
    - Four (4) groundwater samples were collected: Groundwater samples were collected from soil borings B-2 and B-3 and from two pipes (plastic corrugated and clay) discharging water into the Equipment Room sump.
  - Soil Removal:
    - West Room: An excavation extended to the interior walls and outer foundation wall, halfway to the location of soil boring B-1. The excavation terminated at a depth between five and six feet below the concrete floor.
    - Equipment Room: An excavation extended to the interior wall and foundation wall, the base support for the electrical panels and the location of soil boring B-4. The excavation was terminated at a depth between five and six feet below the concrete floor. Vertical slits were cut into the cast ironside of the large sump to allow groundwater to enter the pit. Groundwater extracted from the sump was piped through a pair of activated carbon filters prior to discharge to the sanitary sewer.
    - Static groundwater was approximately four inches below the bottom of the floor slab.
    - Ten (10) excavation end point samples were collected. Laboratory analyses detected no COCs at concentrations above Part 375 Soil Cleanup Objectives (SCO).

  - Excavations were backfilled with gravel. The vapor barrier was repaired and the concrete floor above the barrier was repoured.

- Other Modifications:
  - Water was piped from the second small sump pit in the northeastern corner of the main basement to the large sump in the Equipment Room.
  - Four-inch PVC well screens were placed vertically in each excavation.
  - Two-inch PVC well screen was installed horizontally beneath the floors in both rooms.
  - The drain at the base of the northern stairwell was cleared. This drain discharges into the large sump pit in the Equipment Room.
- Sump Pit Ventilation:
  - A vent system was added to the large sump in the Equipment Room and the second sump in the northeastern corner of the main basement. A three-inch PVC pipe was attached to the lids of both sumps and routed to an inline vent fan and VPGAC filter in the main basement.
  - The treated air is ducted through a four-inch pipe through the eastern basement wall and vented to the roof.

- The volunteer entered into a cash-out Order on Consent and NYSDEC became responsible for implementing the remedial program for the Site in August 2017.

3.0 May 2023 System Inspection and Sampling

In May 2023, the existing ventilation and groundwater extraction and treatment system at the Site were inspected and groundwater, vapor treatment system off gas, and indoor air samples were collected. The existing ventilation system and sump groundwater treatment system were operational but were not maintained. The following observations were made of the system during the May 9, 2023 inspection:

- The activated carbon vessels for both air (GAC) and liquid (LPGAC) may not have been changed out since at least 2009 and are potentially the original drums.
- The groundwater extracted from the large northern sump in the Equipment Room is no longer running through the LPGAC and is being discharged directly to the sewer system untreated.
- The large northern sump pit in the Equipment Room and the smaller second northern sump pit in the basement area are no longer sealed with the basement floor. The sump lids have been removed.
- In the second northern sump pit, the SVE piping has been cut so it is no longer extracting air from the sump, but instead is pulling ambient air from inside the room.

- A drainage system for a leak in the sprinkler system was installed by others and is draining into the second northern sump pit.

The daily report from the May 9, 2023 inspection is provided as *Attachment 2*.

On May 25 and 26, 2023, indoor air samples were collected over 24-hours using 6-Liter Summa canisters in the basement equipment room, West Room, main basement near the second northern sump, and at two locations on the first floor of the Michaels store. An outdoor ambient air sample was also collected to compare indoor samples to background air. A grab sample was collected using a Tedlar® bag of the vapor phase granular activated carbon influent. Samples were analyzed for VOCs by EPA Method TO15. Laboratory analytical results of the air samples detected elevated concentrations of PCE and TCE in the indoor air at concentrations above the New York State Department of Health (NYSDOH) Indoor Air Guidance Values of 30 µg/m^3 and 2 µg/m^3, respectively. Analytical results are presented in Table 1 below:

	Result (ug/m^3)	**PCE**	**TCE**
	NYSDOH Indoor Air Guidance Value	30	2
Sample ID	**Sample Location**		
CC-02-OA	Outdoor ambient air	24	0.59
CC-02-IA-B-MS	Basement in Equipment Room	**390**	**6.1**
CC-902-IA-B-MS	Duplicate of Basement Equipment Room	**370**	**6.4**
CC-02-IA-B-CR	Basement West Room	**460**	**9.4**
CC-02-IA-B-SS	Basement near second north sump	**170**	**3.5**
CC-02-IA-MF-1	First Floor of Michaels Store	**44**	0.85
CC-02-IA-MF-2	First Floor of Michaels Store	**59**	1.2
CC-VPGAC-INF	VPGAC influent sample (vapor extraction system sample) (Tedlar® bag)	4,000	84

Table 1: 2023 Air Sample Results

On May 25, 2023, water samples were collected from the secondary sump in the main basement, the main sump in the equipment room, a vertical pipe/well in the equipment room and a PVC pipe/well in the West Room. Laboratory analytical results of the samples collected detected high concentrations of PCE at all locations, with the highest concentration being in the West Room. Groundwater analytical results are presented in Table 2 below:

	Result (ug/L)	PCE	TCE	Cis-1,2-DCE	Trans 1,2-DCE	Vinyl Chloride
Sample ID	**Sample Location**	**Result (µg/L)**				
CC-SS-01	Secondary Sump (Main Basement)	120	4.5 J	43	0.26 J	ND
CC-MS-01	Main Sump (Equipment Room)	1,200	18 J	190	ND	ND
CC-MSP-01	Main Sump PVC pipe/well (Equipment Room)	1,800	19 J	230	ND	ND
CC-WR-01	PVC pipe/well (West Room)	12,000	420 J	4,200	ND	36 J

Table 2. 2023 Groundwater Sample Results

4.0 Interim Remedial System Optimization Measure Scope of Work

The scope of work for the IRSOM consist of the following tasks:

- Incorporate the horizontal piping in the Equipment Room and the West Room installed during the 2009 IRM activities into the current vapor mitigation system. Prior to connecting to the system, a camera inspection will be performed to confirm the integrity of the piping.
- Repair and cut the vapor piping at the second northern sump in the Main Basement area. All piping will be inspected in the system to determine if any sections or elbows need to be replaced.
- Replace the GAC and LPGAC drums. The spent drums will be disposed of properly at an off-site approved licensed facility. Confirmation that both the extracted vapor and extracted groundwater are being treated through the GAC drum prior to the discharge to the air and sewer, respectively, will be documented.
- Inspection of piping network for the water treatment system for corrosion and build up. Determine if piping can be reused or if replacement is necessary.
- The sump lids will be replaced and sealed to prevent vapor from entering the basement.
- A negative pressure test will be conducted to confirm the effectiveness of the vapor extraction system.
- Repair of the two above ground four-inch PVC monitoring pipes that are in the equipment room and west room.

4.1 Mobilization and Site Preparation

NYSDEC's on-call contractor will provide labor and materials required for the implementation of the IRSOM scope of work. In addition, necessary permits, insurance, bonds, and licenses required to complete the work will be obtained and fees necessary to obtain these permits will be paid. Equipment will be mobilized to the work zone, which is located inside of the Site building.

4.2 Existing System Repairs

4.2.1 IRSOM Groundwater Treatment System Repairs:

- Two 55-gallon drums of LPGAC will be used in series to remediate groundwater. New drums will be an in-kind replacement of the existing drums used for the system.
- Piping to and from the drums will be done with two- inch PVC piping.
- Quarter inch in diameter sample ports shall be installed before the lead LPGAC vessel, in between the lead and lag vessel, and after the Lag vessel. Allowing for future monitoring to assess the operational status to schedule changeouts of the carbon.
- Quarter inch in diameter sample ports shall be installed in the PVC piping for each individual sump line.
- Quarter inch in diameter pressure gauges will be installed before the lead GAC vessel, in between the lead and lag vessel, and after the Lag vessel. Giving routine operations and maintenance visits the ability to quickly assess the status of flow going through the carbon.

4.2.2 IRSOM Vapor Mitigation System Repairs:

- One 55-gallon drum of VPGAC will be used to remediate the soil vapor.
- Quarter inch in diameter sample ports shall be installed before and after the VPGAC vessel, as well as at each individual PVC line that feeds into the GAC unit.
- Quarter inch in diameter pressure gauges will also be installed before and after the VPGAC vessel.
- The equipment room sump pit lid shall be repaired to provide a seal around the PVC pipe inserts using cast Iron and vacuum sealed.
- The second smaller sump pit lid shall be replaced with a cast iron lid and sealed vacuum tight.
- The second smaller sump pit requires a new three-inch PVC pipe inserted into the sump to capture soil vapors.

4.3 Expansion of the Vapor Mitigation System

To increase the effectiveness of the existing vapor extraction system, the existing buried horizontal piping in the Equipment Room and the West Room installed during the 2009 IRM activities shall be connected to the current system. Prior to connecting to the system, a camera inspection will be performed to confirm the integrity of the piping by NYSDEC's contractor. If the horizontals are deemed

in working order an upgrade to the inline blower will be necessary and will be completed by NYSDEC's contractor. The blower will be a four-inch Inline Centrifugal Duct Fan Molded Housing with a capacity of 200 cubic feet per minute (CFM).

If it is determined that the existing piping is not viable, than additional vapor suction points shall be added and connected to the system as determined by the Engineer.

4.4 Testing

After repairs to the existing vapor extraction system are completed, a negative pressure test will be conducted by NYSDEC's contractor to confirm the effectiveness of the vapor extraction system. Pressure measurements shall be collected at vapor pressure monitoring points and on the piping manifolds.

After installation and repairs of the systems are completed, performance sampling will be done to confirm that remediation standards are met. Performance samples shall be collected by CDM Smith and will include:

- Influent air sample collected from the vapor extraction system influent to the VPGAC via Tedlar® bag.
- Effluent air sample, collected from the vapor extraction system post VPGAC.
- Treated groundwater effluent, collected post liquid phase GAC/prior to discharge to sanitary sewer system.
- SVI air sampling in accordance with the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York.*
  - Indoor air samples in the basement and on the first-floor level (24-hour)
  - Outdoor ambient air sample (24-hour)

Samples will be collected in Summa canisters (for air) and laboratory-supplied bottleware (for water) provided by the NYSDEC on-call laboratory and submitted to the laboratory followed standard chain-of-custody protocol.

Indoor and outdoor air samples will be analyzed for VOCs using EPA Method TO15 with detection limits of 1 microgram per cubic meter (1 µg/m^3) for each compound, except for TCE, vinyl chloride, and carbon tetrachloride, which require detection to 0.20 µg/m^3. The Tedlar® bag sample will be analyzed for VOCs by EPA Modified Method TO15. The treated groundwater effluent sample will be analyzed for VOCs by EPA Method 8260.

4.5 Materials Management

The contractor will be responsible for the offsite disposal of soil and materials, including the used LPGAC and VPGAC drums resulting from the IRSOM activities. Waste shall be removed by a New York-licensed waste hauler and disposed of at a licensed facility.

4.6 Health and Safety Plan

A site-specific Health and Safety Plan (HASP) shall be prepared by the contractor in accordance with OSHA 1910.120 Hazardous Waste Operations and Emergency Response [HAZWOPER]. All IRSOM field work will be performed in accordance with the site-specific HASP.

5.0 Reporting

The contractor shall submit daily reports to NYSDEC and CDM Smith during the implementation of the IRSOM. Daily reports will include a summary of all work completed that day; locations of work and quantities of material imported and exported from the Site; and photo-documentation.

Please call me at 732-590-4609 if you have any questions or need any additional information.

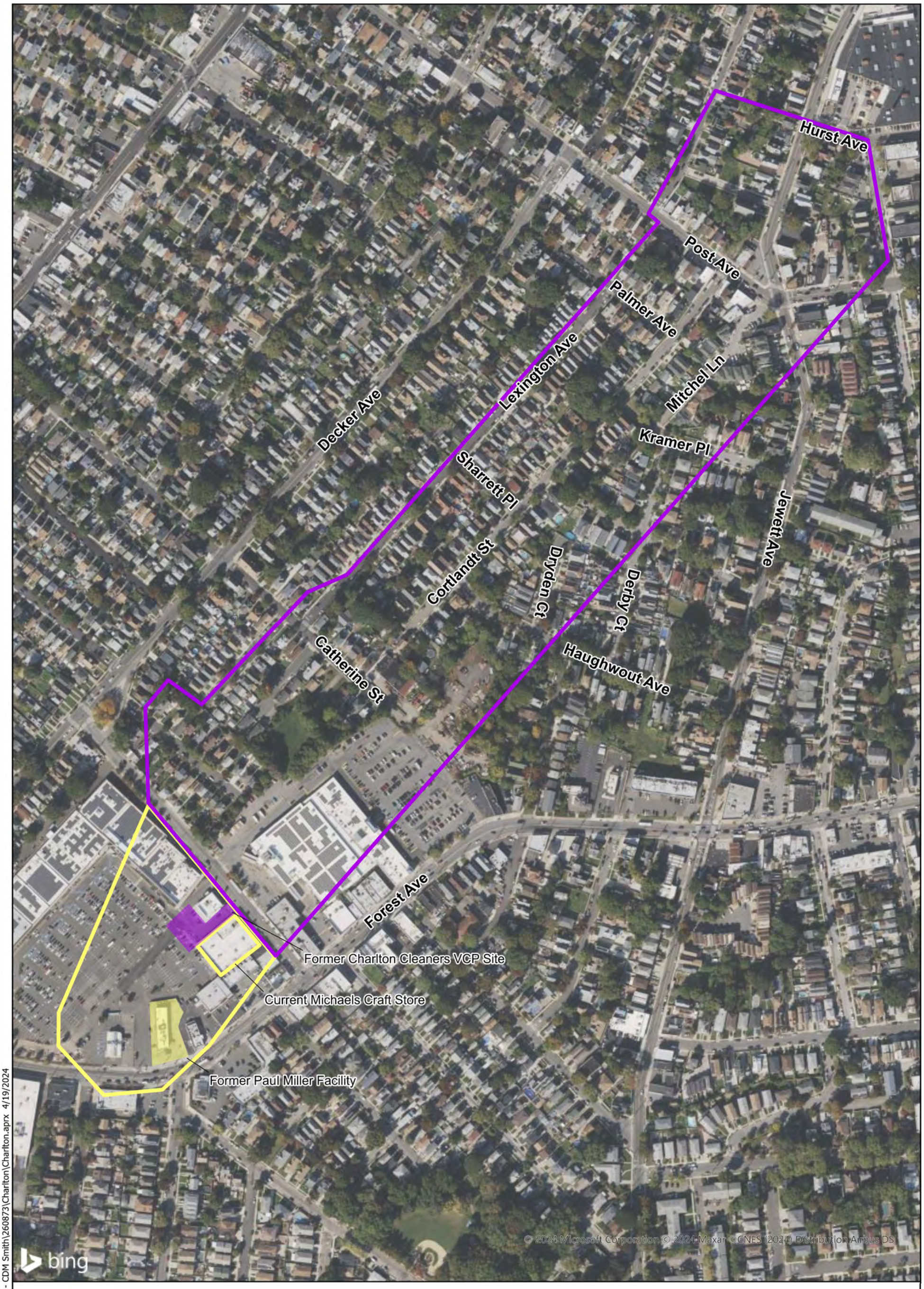
Sincerely,

Jessica R. Beattie, PMP, P.G.
Senior Project Manager
CDM Smith Inc.

copy: Ms. Heidi M. Dudek - NYSDEC

Attachments:
Figure 1 – Site Location Map
Figure 2 – IRM: Sump Water/Vapor Treatment and Flow Paths
Attachment 1 – 2009 IRM Report
Attachment 2 – May 9, 2023 Daily Inspection Report

Figures



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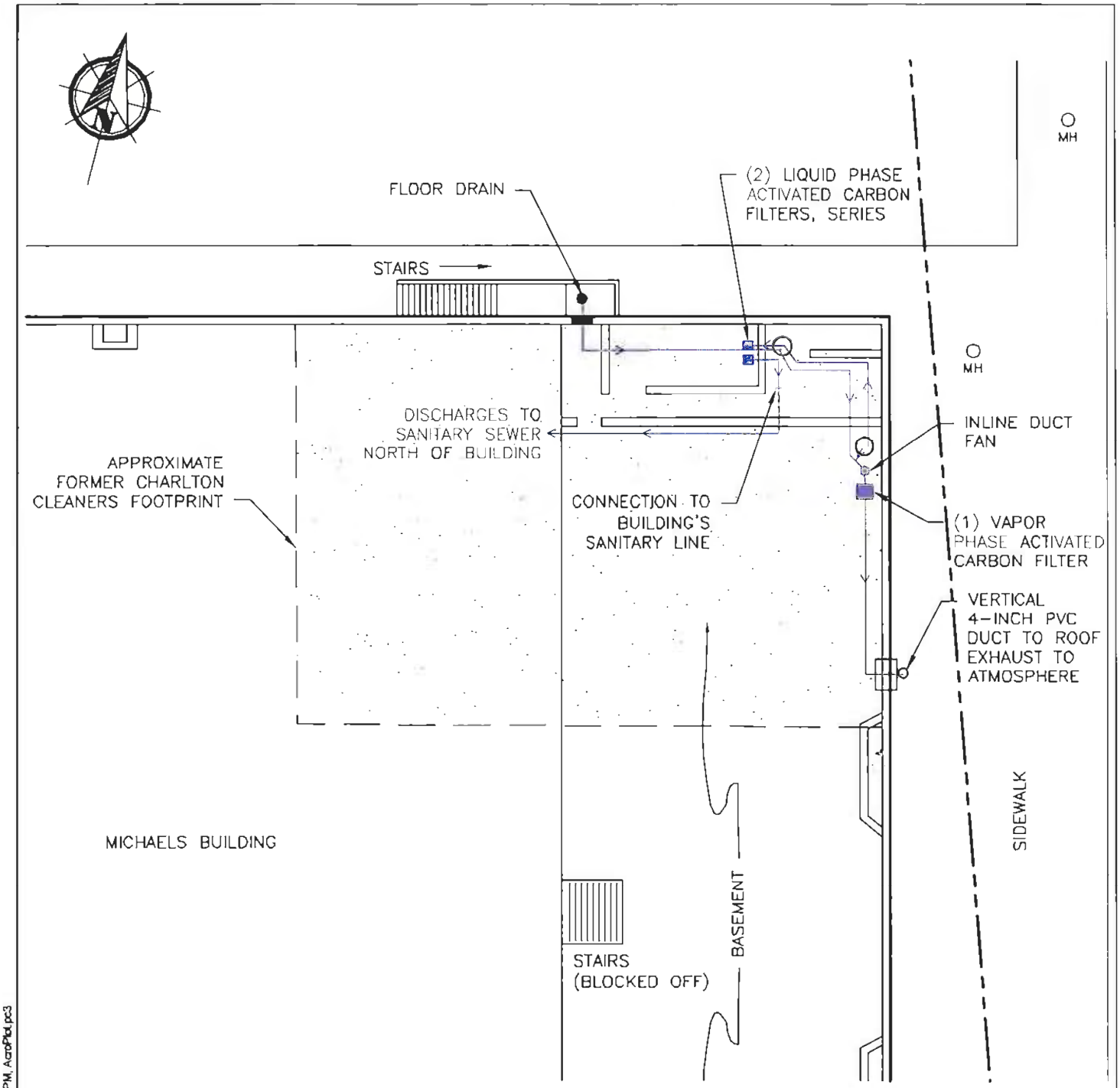
CDM Smith

Figure 1
Site Location Map
Charlton Cleaners Site
NYSDEC Site #243018
Staten Island, New York



LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF FORMER CHARLTON CLEANERS
- SUMP PIT
- WATER PATH
- VAPOR PATH
- SANITARY LINE

0 15

SCALE IN FEET

FORMER CHARLTON CLEANERS FACILITY
VCP # W3-0891-01-06
FOREST AVENUE SHOPPERS TOWN
24 BARRETT AVENUE
STATEN ISLAND NEW YORK

IRM: SUMP WATER/VAPOR TREATMENT AND FLOW PATHS

DATE	REVISED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Groundwater and Environmental Engineering Services
110 Corporate Park Drive
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DRAWN: RAC | CHECKED: PW | DATE: 10/26/09

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Source: Legette, Brashears & Grham, Inc. 2009. Interim Remedial Measures Report

FIGURE 2

Attachments

Attachment 1 - 2009 Interim Remedial Measure Report

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUNDWATER AND
ENVIRONMENTAL ENGINEERING SERVICES

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November 4, 2009

Mr. Kevin Sarnowicz
Division of Environmental Remediation
New York State Department of
Environmental Conservation
625 Broadway
Albany, NY 12233-7016

Dear Mr. Sarnowicz:

Attached are two (2) copies of the Leggette, Brashears & Graham, Inc. (LBG) titled: "Interim Remedial Measures Work Plan, Former Charlton Cleaners Facility, Forest Avenue Shoppers Town, Borough of Staten Island, City of New York", dated November 2009 for your files.

If you have any questions, or need any additional information please do not hesitate to contact me at (914) 694-5711.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.

Paul Woodell

Paul Woodell
Associate

PW:dmd
Attachments
cc: Bridget Callaghan
Keith Rolick
Scott Gerber
Scott Furman, Esq.
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INTERIM REMEDIAL MEASURES REPORT
FORMER CHARLTON CLEANERS FACILITY
FOREST AVENUE SHOPPERS TOWN
BOROUGH OF STATEN ISLAND
CITY OF NEW YORK

Prepared For

KIOP Forest Avenue, L.P.

November 2009

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INTERIM REMEDIAL MEASURES REPORT
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FOREST AVENUE SHOPPERS TOWN
BOROUGH OF STATEN ISLAND
CITY OF NEW YORK

1.0 INTRODUCTION

The following Interim Remedial Measures (IRM) Report was completed on behalf of KIOP Forest Avenue, L.P. (KFA) by Leggette, Brashears & Graham, Inc. (LBG) in accordance with the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) requirements for New York State's Inactive Hazardous Waste Disposal Site Remedial Program. KFA is an innocent owner volunteer entered into the NYSDEC Voluntary Cleanup Program (VCP), Index Number W3-0891-01-06. The IRM Work Plan was developed in response to the soil, groundwater and soil vapor contamination identified at the former Charlton Cleaners facility and was developed based upon agreements made during a meeting of involved parties at NYSDEC Region II offices on January 8, 2009. The Work Plan was submitted on March 20, 2008 and a response to NYSDEC comments was submitted on May 22, 2009. Approval to proceed with the IRM was received from the NYSDEC case manager via e-mail on June 10, 2009.

The purpose of the IRM was to:

1. identify whether soil beneath the north basement floor of the Michaels building is a source of groundwater contamination detected downgradient of the building and a source of contamination detected in the indoor air of the building. The Charlton Cleaners facility was located above this portion of the basement;
2. remove contaminated soil to the extent possible so as to reduce contaminant levels;
3. control soil vapor intrusion through the sump pits by the installation of a ventilation fan and activated carbon filter; and,
4. reduce the tendency of contaminated groundwater to accumulate near the basement stairwell.

2.0 SITE HISTORY AND BACKGROUND

The former Charlton Cleaners, a dry-cleaning facility, was located in the Rock-Landau Building in the southeast portion of the Forest Avenue Shoppers Town or FAST (the Site). The FAST shopping center is a shopping mall comprising 5 buildings and approximately 25 retail businesses. This area is illustrated on figure 1. Figure 2 illustrates the area surrounding the Michaels store. According to tax and Sanborn Maps, the location of the former Charlton Cleaners occupied the northeast corner of the Rock-Landau Building prior to 1994. The 2,040 ft^2 (square feet) building is currently occupied by one tenant (Michaels Crafts). No information was available regarding the initial occupancy date of the former Charlton Cleaners. In order to be consistent with prior reports, the Rock-Landau building will be referred to as the Michaels building in this document.

Environmental media at and beneath the Site including soil, groundwater, soil vapor and indoor air have been impacted by chlorinated volatile organic compounds (CVOCs) aka chlorinated solvents, including tetrachloroethene (aka perchloroethene, perc, or PCE) and its degradation byproducts: trichloroethene (TCE), cis-1,2-dichloroethene (DCE), vinyl chloride (VC), etc. Historical environmental data collected at the Site is summarized in an LBG Data Consolidation letter to the NYSDEC case manager dated April 15, 2008.

Prior Interim Remedial Measures were conducted in 2007 and 2008 to mitigate the elevated indoor air CVOC concentrations in the Michaels building. They include:

- installing a 40-mil high density polyethylene vapor barrier on the floor of the Michaels building basement with a new concrete floor poured above it;
- installing lids on 3 basement sump pits to reduce vapor infiltration into the basement; and,
- adjustment and repair of the rooftop HVAC system in order to increase the percentage of outdoor air mixed into the building air, thus diluting volatile organic compound (VOC) concentrations.

3.0 LOCATION DESCRIPTION

The focus of this IRM was the north end of the partial basement beneath the Michaels building (figures 2 and 3). Based on limited Sanborn map data, the footprint of the former Charlton Cleaners occupied the northeast corner of the building and the north end of the basement was partially overlain by the cleaner.

The basement is approximately 35 feet by 115 feet, the long dimension runs north-south beneath the east side of the Michaels building. The remainder of the Michaels building is slab-on-grade construction. A masonry wall, running east-west, divides the basement into two zones: (1) the main basement used for Michaels product storage (south of the wall), and (2) two small rooms and the exterior basement entrance (north of the wall), shown on figure 3.

The 2009 IRM field work was performed within the two rooms to the north of the fire wall, herein referred to as the "equipment room" and the "west room" (figure 3). A large sump pit exists in the floor of the equipment room. The dimensions of the sump are approximately 4 feet in diameter and 3 feet deep. The sump appears to date to the building's construction and thus existed during the Charlton Cleaners operation. The walls of the sump are cast iron and the bottom is solid. Water enters the sump through two 2-inch pipes and through the backfill material surrounding the pipes. Water may also enter through a gap between the sump floor and wall. The Appendix contains photographs of the IRM.

The equipment room also contains electrical panels for the Michaels building and other Site electrical service. Water and natural gas supplies enter this room from Barrett Avenue. The west room has several electrical panels mounted on the north wall but is otherwise empty. Next to the west room is an exterior entrance to the basement through a stairwell from the sidewalk.

4.0 IRM FIELD WORK AND SAMPLING

4.1 Soil Excavation and Sampling

The IRM field work was performed between September 8 and September 25, 2009 by Metro Environmental Contracting Corporation (Metro) of Lindenhurst, New York, under the supervision of LBG personnel. The first several days were spent saw cutting and breaking up

the concrete floor in the equipment room in the vicinity of the sump pit. In 2005, LBG supervised the installation of a polyethylene vapor barrier on top of the existing (original) floor slab throughout the entire basement. Following barrier installation, a 4-inch thick concrete slab was poured throughout the entire basement. Total thickness of the original floor plus the 2005 slab is approximately 12 inches.

On September 10, 2009, soil near the sump pit was hand dug, inspected and screened with a photoionization detector (PID). Based on the absence of any visual staining, odor or PID response, it was decided that a series of test borings would be excavated and soil samples would be collected for laboratory analysis with a 24-hour turn-around time. On September 11, 2009, a vacuum truck was used to excavate 4 test borings, two of which were beneath the floor of the west room (B-1 and B-2) and two of which were in the equipment room (B-3 and B-4). Locations are shown on figure 4. Two soil samples were collected with a hand auger from each of these borings, at depths of 2 and 6 feet below the floor slab. These samples were transported to York Analytical Laboratory (York) of Stratford, Connecticut for analysis of VOCs via EPA Method 8260.

On September 11, 2009, a total of 4 groundwater samples were collected for laboratory analysis. The purpose was to evaluate groundwater quality beneath the slab and in the sump pit. One groundwater sample was collected from both the B-2 and B-3 borings after the water level in each had equilibrated. A water sample was also collected from each of the two pipes which discharge water into equipment room sump pit. The two pipes (one plastic corrugated and one clay) enter on the south side of the sump and run at an angle under the floor to the southwest. As the pipes were only exposed within the excavation, their total length, purpose and origin is unknown. The floor drain at the bottom of the exterior stairwell drains through the corrugated pipe. Groundwater samples were transported to York for analysis of VOCs by EPA Method 8260.

Laboratory analysis of the 8 soil samples indicated that soil from B-2 and B-3 contained chlorinated VOCs at concentrations exceeding 6NYCRR Part 375 Soil Cleanup Standards. Details of the laboratory results are presented in Section 5.0. Based on these analyses, the

floor openings were expanded in both the equipment and west rooms in order to excavate soil at the locations of B-2 and B-3.

Between September 17 and 22, 2009, Metro excavated soil from beneath the floor of the equipment room and west room. The west room excavation was extended to the interior walls and outer foundation wall. Also, the west room excavation was extended halfway to the B-1 location which analyses had proven to meet Part 375 Cleanup Standards. Similarly, the equipment room excavation was extended to the interior wall and foundation wall, the base support for the electrical panels and to the location of B-4, soil from which met Part 375 Cleanup Standards.

The sub floor geology consisted of saturated sandy silt with many 4 to 8-inch cobbles. The static groundwater level was approximately 4 inches below the bottom of the floor slab. The excavations in both rooms were terminated at a depth between 5 and 6 feet below the floor which was the practical limit based on the excavation method, the rate of groundwater infiltration and safety of the workers.

The excavated soil was temporarily staged onsite within a 15-yard rolloff container, lined and covered with polyethylene. Disposal characterization samples were collected and analyzed by York. It was determined that the soil met standards necessary for use as landfill cover material. In October 9, 2009, Innovative Recycling Technologies, Inc. of Lindenhurst, New York transported 10.94 tons of soil to CWM Chemical Service, LLC of Model City, New York for disposal. Transportation and disposal manifests are attached.

On September 17, 18 and 21, 2009, 10 endpoint soil samples were collected to document the condition of the soil which remains beneath the floor. Sample locations and the limits of excavation are shown on figure 5. The excavations were backfilled with clean gravel. The vapor barrier was repaired and the concrete floor above the barrier was repoured.

4.2 Modifications to the Infrastructure

Prior to backfilling the equipment room excavation, the side of the large sump pit was modified to permit groundwater to enter the pit directly. A series of vertical slits were cut into the cast iron side of the sump. The purpose of this modification was to make the sump act as a

low-flow groundwater extraction system, gradually removing contaminated groundwater from beneath the floor. The extracted water is piped through a pair of activated carbon filters prior to discharge to the sanitary sewer. The installation of this filtration system is performed at the request of the NYSDEC case manager. The water discharged from a second small sump pit located in the northeast corner of the main basement was piped into the large sump. In this way, water from both sumps is treated prior to discharge (figure 6).

Also prior to backfill, a 4-inch diameter slotted PVC well screen was placed vertically in each excavation. The well screen extends above the floor grade after floor repair. The well screens can be used for future monitoring and remedial activities. Further, a length of 2-inch diameter slotted PVC well screen was laid horizontally directly beneath the floors in both rooms. The horizontal pipe was elbowed vertically and terminated just above the finished floor grade. The horizontal pipe can be used for future passive or active sub slab vapor venting.

The floor of the west room and the basement stairwell has been observed to periodically flood due to the shallow static groundwater level. This water, being contaminated with VOCs, is a potential source of indoor air contamination. The original Work Plan described the installation of a small sump at the bottom of the outside stairwell in order to mitigate the problem. During preparatory work however, a floor drain was discovered in the stairwell. The drain was cleared of debris and was determined to be functional. It drains into the large sump pit in the equipment room.

4.3 Sump Pit Ventilation

In order to prevent vapor infiltration from the sumps into the basement air, a ventilation system was added to both the large sump in the equipment room and a smaller sump in the northeast corner of the main basement (figure 6). Three-inch diameter PVC pipe was attached to the lids of both sumps and routed to an inline vent fan and vapor-phase activated carbon filter in the main basement. The treated air is ducted through 4-inch PVC pipe out the east basement wall and up to the roof of the Michaels building where it exhausts to the atmosphere (see photographs in the Appendix).

5.0 ANALYSIS RESULTS

The standards, criteria or guidances (SCGs) used to evaluate the results of soil analysis are those put forth in Title 6 of the New York Codes, Rules and Regulations (6NYCRR), Part 375 (Environmental Remediation Program), Subpart 375-6 (Soil Cleanup Objectives). Specifically, due to the Site use and proximity of this soil to the water table, the "Commercial Use, Protection of Groundwater" Standards were used. These Standards will be referred to as "Part 375 SCO" in this report. The SCGs used to evaluate the groundwater analysis results are those put forth in the NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, herein referred to as "AWQS & GVs". The endpoint soil samples analysis was performed with ASP Category B deliverables packages. The abbreviated laboratory reports for all IRM samples are included in the Appendix. The full deliverables package will be submitted with a Data Usability Summary Report (DUSR) under separate cover upon completion.

The results of VOC analysis of soil samples from the 4 preliminary test borings are shown on table 1. The chlorinated solvent PCE and its degradation products TCE, DCE and vinyl chloride were detected in the B-2 (6-foot) and B-3 (2-foot and 6-foot) soil samples at concentrations exceeding the Part 375 SCO. This was the basis for further excavation. PCE concentrations ranged between 12 ug/kg (micrograms per kilogram) in Boring B-4 to 2,600 ug/kg in Boring B-3.

In order to satisfy the NYSDEC requirements for a Class 2 inactive hazardous waste site, other chemical constituents and metal must be evaluated in order to ensure that they are not contaminants of concern. Soil from Borings B-2 and B-3 (both 6 feet below the floor) were analyzed for semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenols (PCBs) and the 8 Resources Conservation and Recovery Act (RCRA) metals. No SVOCs, PCBs or pesticides were detected above the laboratory reporting limits therefore the results have not been tabulated. The results of analysis for the 8 RCRA metals is presented on table 2. None of the detected metals were at concentrations exceeding the Part 375 SCO.

Results of analysis of the groundwater samples collected from Borings B-2 and B-3, and the water samples collected from the Clay Pipe and Plastic Pipe discharging into the large sump pit are summarized on table 3. The Site contaminants, PCE, TCE, DCE and vinyl chloride were detected in all 4 water samples at concentrations exceeding the AWQS RGVS. PCE was the most prevalent compound detected ranging between 230 ug/l (micrograms per liter) and 990 ug/l. Naphthalene, trans-1,2-dichloroethene and 1,1-dichloroethene were also detected at lesser concentrations. The concentrations of the primary contaminants detected in the B-3 and Clay Pipe samples were approximately 5 to 10 times greater than in the B-2 and Plastic Pipe samples.

The results of analysis of the 10 excavation endpoint soil samples are summarized on table 4. Although PCE and DCE were detected in all samples and TCE and vinyl chloride in some, none of the detected concentrations were greater than the Part 375 SCO. Ethylbenzene, xylenes and naphthalene were also detected at concentrations below or slightly above the reporting limit.

6.0 SUMMARY AND CONCLUSIONS

The following is a summary of the IRM activities completed in September 2009 and described previously in this report.

- Preliminary soil sampling indicated that soil beneath the basement floor contained PCE, DCE and vinyl chloride at concentrations exceeding the Part 375 "Protection of Groundwater" Soil Cleanup Standard.
- A total of 10.94 tons of soil was removed from two excavations in the equipment room and west room, to a depth of approximately 6 feet below the floor. Excavation endpoint soil samples analysis indicate that no compounds were detected above Part 375 Standards.
- The large sump pit was modified to receive groundwater from its vicinity. A pair of activated carbon filters were installed in order to remove contaminants from the sump water prior to discharge to the sewer.

- A ventilation fan and activated carbon filter were installed to extract vapor from within the two north sump pits, treat it and exhaust it to the atmosphere outside the building.

Although the large north sump was suspected of being a point of discharge of dry cleaning chemicals to the environment (a "source" area), the levels of contamination detected in the surrounding soils would not be considered high enough to be the sole source of the detected downgradient groundwater contamination. Of course, it is possible that a discrete source no longer exists. The released material may not have been pure PCE (free phase) but may have been in the form of dissolved PCE, with less partitioning into the adsorbed phase on soil. Also, the release point may have been near or below the static water level. This would also tend to reduce the portion of contaminants adsorbed to the soil.

The IRM activities should result in an improvement in indoor air quality within the Michaels building. The air sampling is currently on a semiannual schedule. The next sampling event will be in February 2010.

LEGGETTE, BRASHEARS & GRAHAM, INC.

Paul Woodell

Paul Woodell
Associate

Reviewed By:

Dan C. Buzea, CPG
Senior Vice President

dmd
November 4, 2009
f:\reports\charlton cleaners\2009\irm\irm report doc

TABLES

TABLE 1

FORMER CHARLTON CLEANER FACILITY
VOLUNTARY CLEANUP PROGRAM INDEX # W3-0891-01-06
FOREST AVENUE SHOPPERS TOWN
24 BARRETT AVENUE
STATEN ISLAND, NEW YORK

Summary of Analysis Results for Preliminary Soil Samples
Volatile Organic Compounds by EPA Method 8260
Samples Collected September 11, 2009

Sample Location	Depth below floor (feet)	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	Vinyl chloride	Dichlorodifluoromethane	Chloromethane	Chloroethane	Trichlorofluoromethane	Acetone	1,1-Dichloroethene	Carbon disulfide	Methylene chloride	Methyl tert-butyl ether	trans-1,2-Dichloroethene	1,1-Dichloroethane	2-Butanone	Chloroform	1,1,1-Trichloroethane	Carbon tetrachloride
B-1	2	23	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	6	120	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
B-2	2	62	<5.0	11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	6	370	23	440	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
B-3	2	300	110	310	42	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	6	2,600	90	980	64	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
B-4	2	240	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	6	12	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Part 375, Restricted Use Commerical, Protection of Groundwater [1]		1,300	470	250	20	NS [2]	NS	NS	NS	50	330	NS	50	930	190	270	120	370	680	760

1) New York State Codes, Rules and Regulations, Chapter IV, Part 375: Environmental Remediation Programs, Subpart 375-6: Remedial Program Soil Cleanup Objectives, Dec. 14, 2006
2) No Standard

TABLE 2

FORMER CHARLTON CLEANER FACILITY
VOLUNTARY CLEANUP PROGRAM INDEX # W3-0891-01-06
FOREST AVENUE SHOPPERS TOWN
24 BARRETT AVENUE
STATEN ISLAND, NEW YORK

Summary of Analysis Results for Preliminary Soil Samples
Total RCRA 8 Metals by EPA SW 846 (7471 for mercury)
Samples Collected September 11, 2009
(all concentrations in milligrams per kilogram)

Sample Location	Depth below floor (feet)	Arsenic	Barium	Cadmium	Chromium (total)	Lead	Selenium	Silver	Mercury
B-2	6	6.68	58.9	0.61	14.7	11.2	<1.2	<0.58	<0.115
B-3	6	6.5	62.4	<0.61	11.9	15.4	<1.2	<0.61	<0.121
Part 375, Restricted Use Commerical, Protection of Groundwater [1]		16	820	7.5	19 [2]	450	4	8.3	0.73

1) New York State Codes, Rules and Regulations, Chapter IV, Part 375: Environmental Remediation Programs, Subpart 375-6: Remedial Program Soil Cleanup Objectives, Dec. 14, 2006
2) Applies to hexavalent chromium

TABLE 3

FORMER CHARLTON CLEANER FACILITY
VOLUNTARY CLEANUP PROGRAM INDEX # W3-0891-01-06
FOREST AVENUE SHOPPERS TOWN
24 BARRETT AVENUE
STATEN ISLAND, NEW YORK

Summary of Analysis Results for Groundwater Samples
Volatile Organic Compounds by EPA Method 8260
Samples Collected September 11, 2009
(all concentrations in micrograms per liter)

Sample Identification	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	Vinyl Chloride	Benzene	Ethylbenzene	Total Xylenes	Isopropylbenzene	Naphthalene	n-Propylbenzene	4-isopropyltoluene	Acetone	MTBE [2]	sec-butylbenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene
B-2	**230**	**28**	<5.0	**29**	<5.0	<5.0	**2 J**	<5.0	**11**	<5.0	<5.0	<5.0	<5.0	<5.0	**85**	**5**
B-3	**900**	**85**	<5.0	**140**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**930**	**3 J**
Clay Pipe	**990**	**83**	<5.0	**130**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**1 J**	<5.0	**850**	**3 J**
Plastic Pipe	**280**	**38**	<5.0	**1 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**180**	**2 J**
TOGS GWQS [1]	**5**	**5**	**5**	**2**	**1**	**5**	**5**	**5**	**10**	**5**	**5**	**50**	**10**	**5**	**5**	**5**

1) - Ambient Water Quality Standards & Guidance Values, Class GA Groundwater as per Division of Water Technical & Operational Guidance Series (1.1.1)

2) - No Standard

230 Exceeds AWQS for Class GA groundwater

TABLE 4

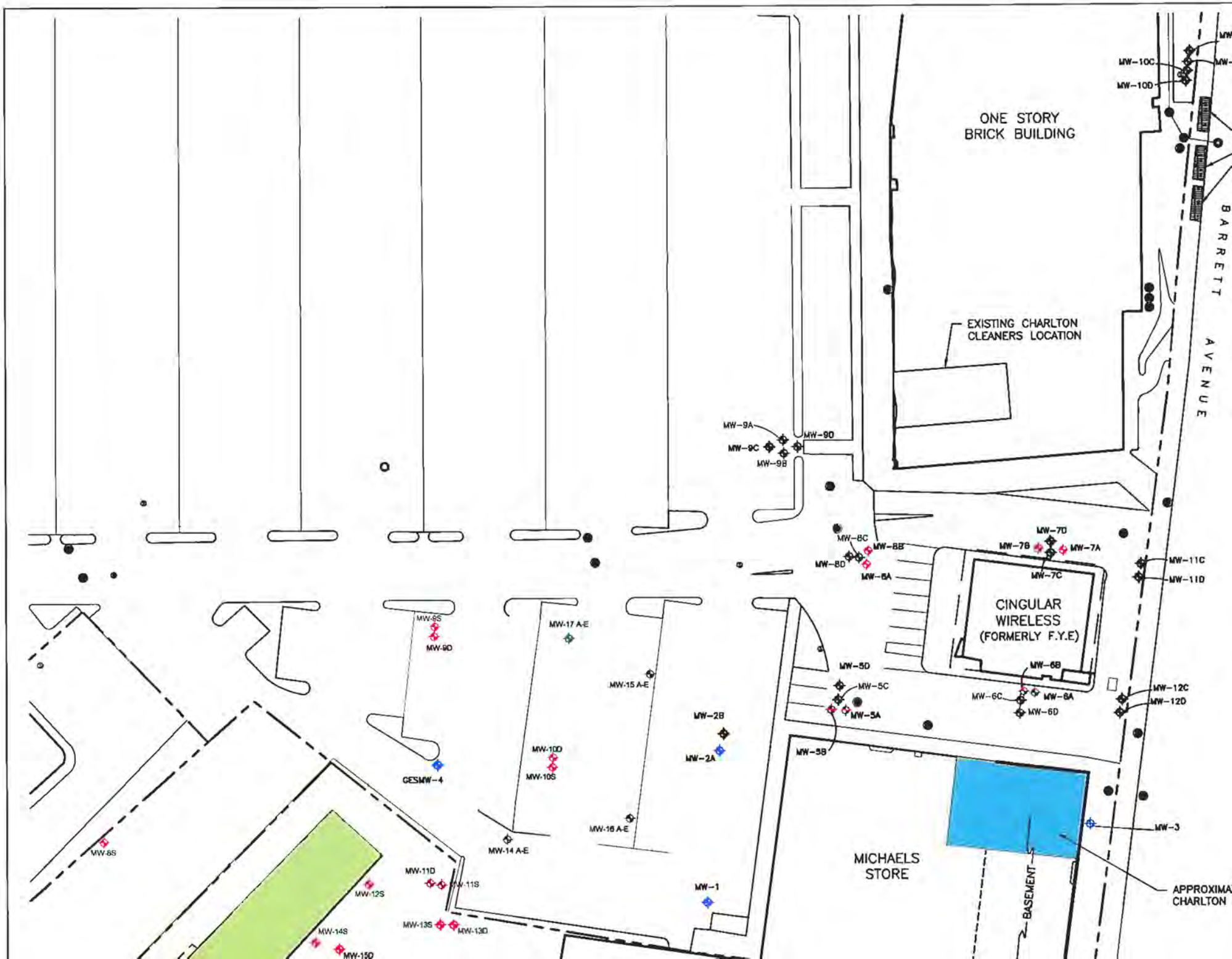
FORMER CHARLTON CLEANER FACILITY
VOLUNTARY CLEANUP PROGRAM INDEX # W3-0891-01-06
FOREST AVENUE SHOPPERS TOWN
24 BARRETT AVENUE
STATEN ISLAND, NEW YORK

Summary of Analysis Results for Excavation Endpoint Soil Samples
Volatile Organic Compounds by EPA Method 8260
Samples Collected September 17, 18 & 21, 2009

Sample Location	Depth below floor (feet)	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	Vinyl chloride	Dichlorodifluoromethane	Chloromethane	Chloroethane	Trichlorofluoromethane	Acetone	1,1-Dichloroethene	Carbon disulfide	Methylene chloride	Methyl tert-butyl ether	trans-1,2-Dichloroethene	1,1-Dichloroethane	2-Butanone	Chloroform	1,1,1-Trichloroethane	Carbon tetrachloride
S-1	3	220	27	140	9 J	<12	<12	<12	<12	<12	<12	<12	18 JB	<12	<12	<12	<12	<12	<12	<12
S-2	3	47	<12	4 J	<12	<12	<12	<12	<12	<12	<12	<12	16 JB	<12	<12	<12	<12	<12	<12	<12
S-3	3	66	<12	8 J	<12	<12	<12	<12	<12	<12	<12	<12	18 JB	<12	<12	<12	<12	<12	<12	<12
S-4	3	450	9 J	90	<12	<12	<12	<12	<12	<12	<12	<12	15 JB	<12	<12	<12	<12	<12	<12	<12
S-5	3	42	<12	5 J	<12	<12	<12	<12	<12	<12	<12	<12	17 JB	<12	<12	<12	<12	<12	<12	<12
S-6	3	40	<12	26	<12	<12	<12	<12	<12	<12	<12	<12	17 JB	<12	<12	<12	<12	<12	<12	<12
S-7	3	170	10 J	20	<12	<12	<12	<12	<12	<12	<12	<12	16 JB	<12	<12	<12	<12	<12	<12	<12
Bottom-1	7	190	3 J	22	<12	<12	<12	<12	<12	<12	<12	<12	16 JB	<12	<12	<12	<12	<12	<12	<12
Bottom-2	6	420	25	240	<12	<12	<12	<12	<12	<12	<12	<12	16 JB	<12	<12	<12	<12	<12	<12	<12
Bottom of Sump	6	240	13	87	9 J	<12	<12	<12	<12	<12	<12	<12	16 JB	<12	<12	<12	<12	<12	<12	<12
Part 375, Restricted Use Commerical, Protection of Groundwater		1,300	470	250	20	NS	NS	NS	NS	50	330	NS	50	930	190	270	120	370	680	760

FIGURES


DECKER AVENUE
38
29
39
FOREST AVENUE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
TJ MAXX
16
17-20
21a
21b
22
23
24
25
EXISTING CHARLTON CLEANERS
37
36
35
FORMER PAUL MILLER CLEANERS
28
FORMER CHARLTON CLEANERS
26
MICHAEL'S STORES
27
31
30
33
34
32
BARRETT AVENUE
CORNELL STREET
39
PATHMARK MALL
DUNKIN DONUTS
PATHMARK
RADIO SHACK
BROADWAY SNEAKERS
MISC. TENANTS
FOREST AVENUE
PARKING


ONE STORY
BRICK BUILDING
EXISTING CHARLTON
CLEANERS LOCATION
BARRETT AVENUE
CINGULAR
WIRELESS
(FORMERLY F.Y.E)
MICHAELS
STORE
BASEMENT
APPROXIMA
CHARLTON
MW-1
MW-2A
MW-2B
MW-3
MW-5A
MW-5B
MW-5C
MW-5D
MW-6A
MW-6B
MW-6C
MW-6D
MW-7A
MW-7B
MW-7C
MW-7D
MW-8A
MW-8B
MW-8C
MW-8D
MW-9A
MW-9B
MW-9C
MW-9D
MW-10C
MW-10D
MW-11C
MW-11D
MW-12C
MW-12D
MW-8S
MW-9D
MW-17 A-E
MW-15 A-E
MW-10D
MW-10S
GESMW-4
MW-16 A-E
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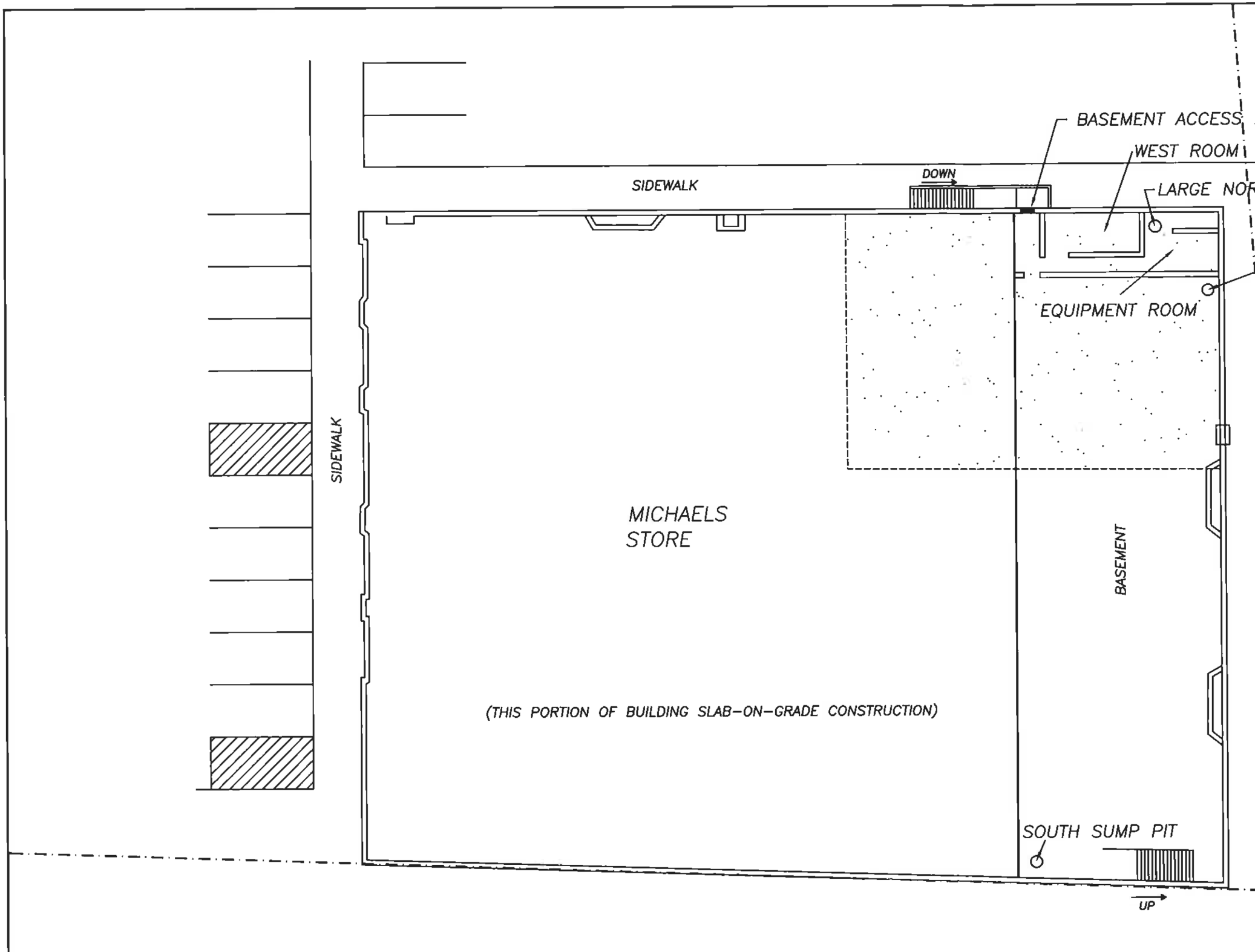
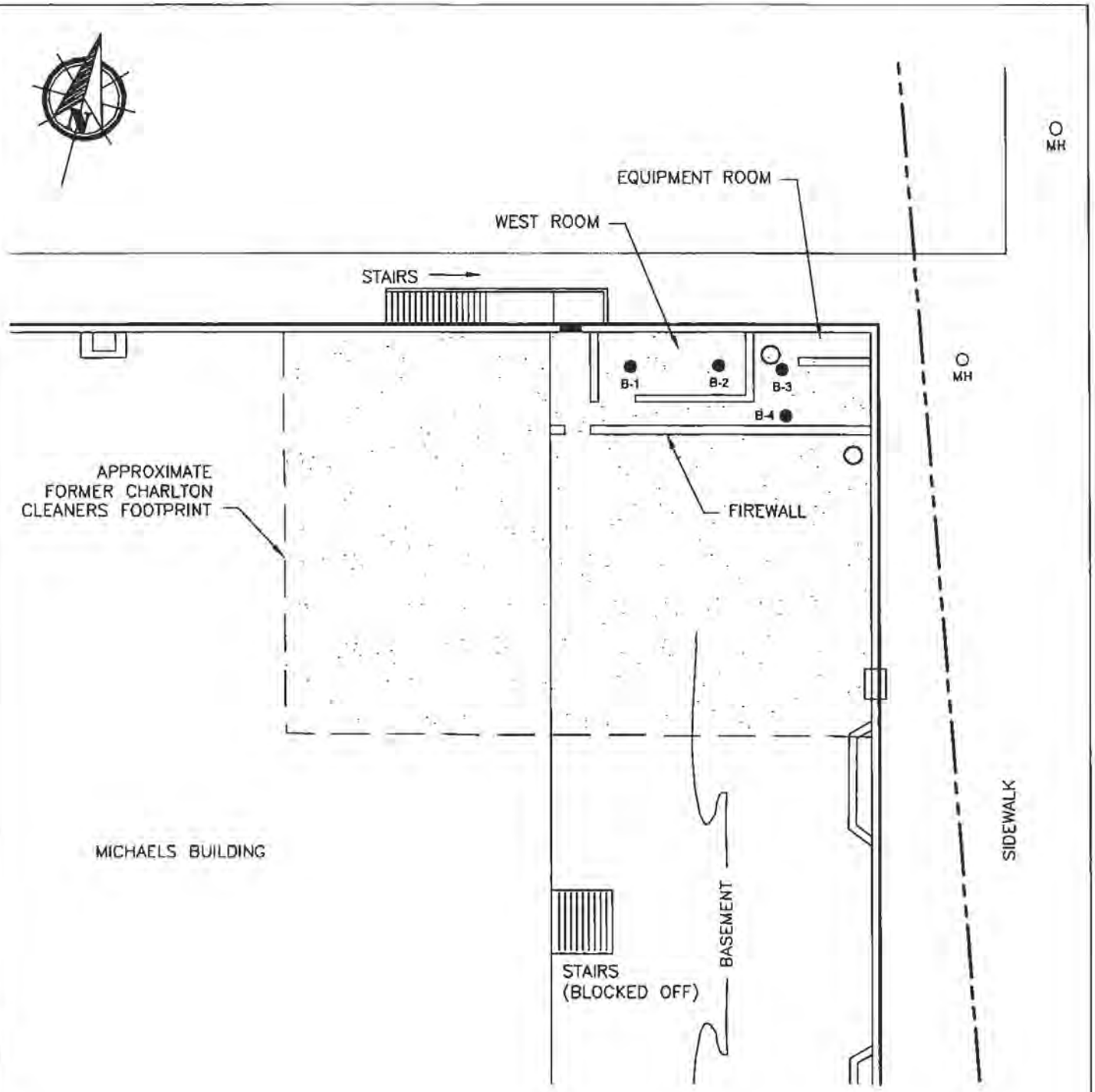
MW-13D
MW-14S
MW-15D


BASEMENT ACCESS
WEST ROOM
DOWN
SIDEWALK
LARGE NOR
EQUIPMENT ROOM
SIDEWALK
MICHAELS
STORE
BASEMENT
(THIS PORTION OF BUILDING SLAB-ON-GRADE CONSTRUCTION)
SOUTH SUMP PIT
UP



LEGEND

PROPERTY BOUNDARY

APPROXIMATE LOCATION OF FORMER CHARLTON CLEANERS

SUMP PIT

B-1 PRELIMINARY BORING AND SOIL SAMPLE LOCATION

0 15

SCALE IN FEET

FORMER CHARLTON CLEANERS FACILITY
VCP # W3-0891-01-06
FOREST AVENUE SHOPPERS TOWN
24 BARRETT AVENUE
STATEN ISLAND NEW YORK

IRM: PRELIMINARY BORING/SOIL SAMPLE LOCATIONS, COLLECTED SEPTEMBER 11, 2009

DATE	REVISED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Groundwater and Environmental Engineering Services
110 Corporate Park Drive
Suite 112
White Plains, NY 10604
(914) 694-5711

DRAWN:	RAC	CHECKED:	PW	DATE:	10/26/09	FIGURE:	4

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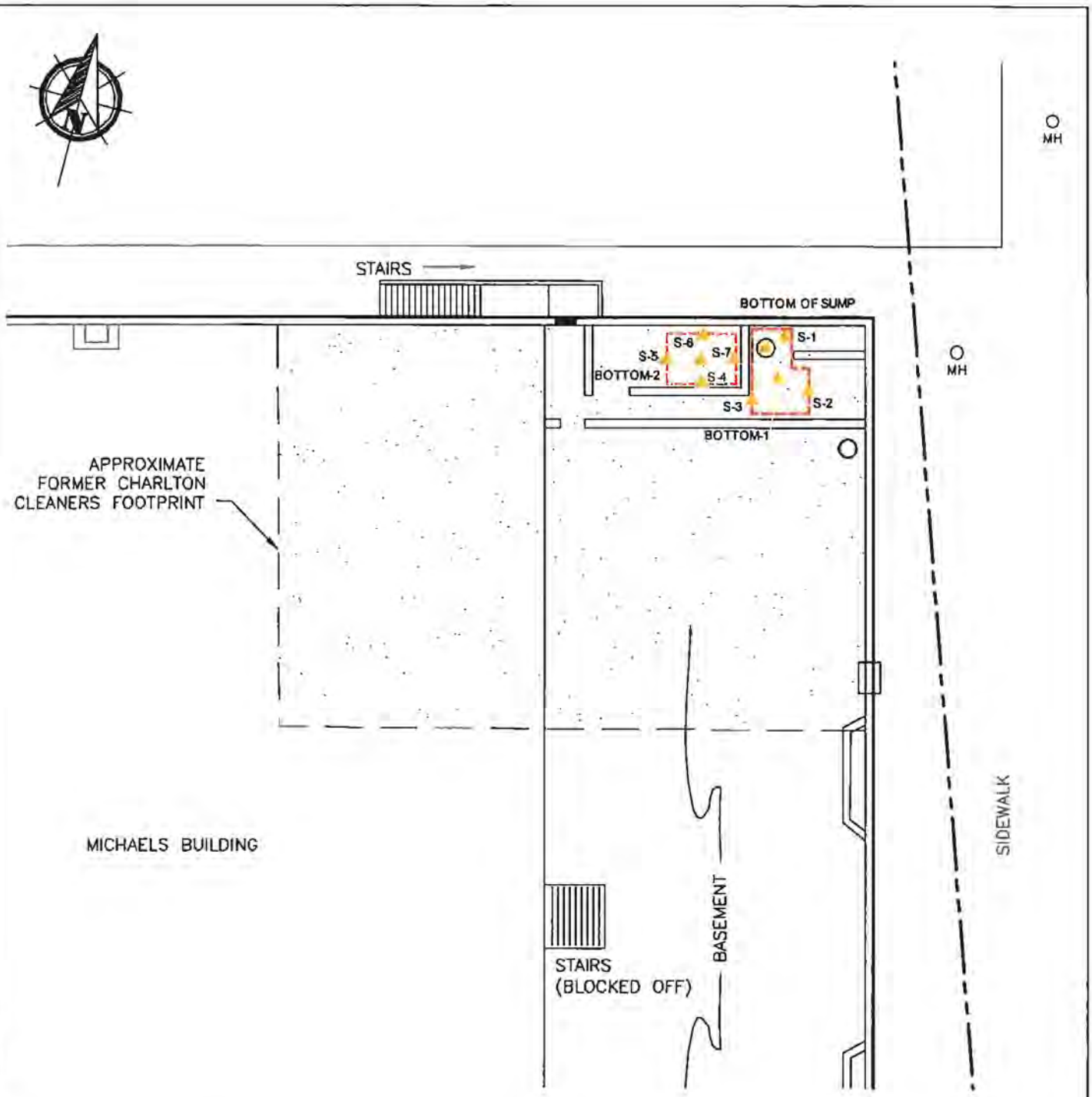

LEGEND

PROPERTY BOUNDARY

APPROXIMATE LOCATION OF FORMER CHARLTON CLEANERS

SUMP PIT

LIMIT OF IRM EXCAVATION

S-1 EXCAVATION ENDPOINT SOIL SAMPLE

0 15

SCALE IN FEET

FORMER CHARLTON CLEANERS FACILITY
VCP # W3-0891-01-06
FOREST AVENUE SHOPPERS TOWN
24 BARRETT AVENUE
STATEN ISLAND NEW YORK

IRM: EXCAVATION LIMITS AND ENDPOINT SOIL SAMPLE LOCATIONS, COLLECTED SEPTEMBER 17, 18 AND 21 , 2009

DATE	REVISED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Groundwater and Environmental Engineering Services
110 Corporate Park Drive
Suite 112
White Plains, NY 10604
(914) 694-5711

DRAWN:	RAC	CHECKED:	PW	DATE:	10/26/09	FIGURE:	5

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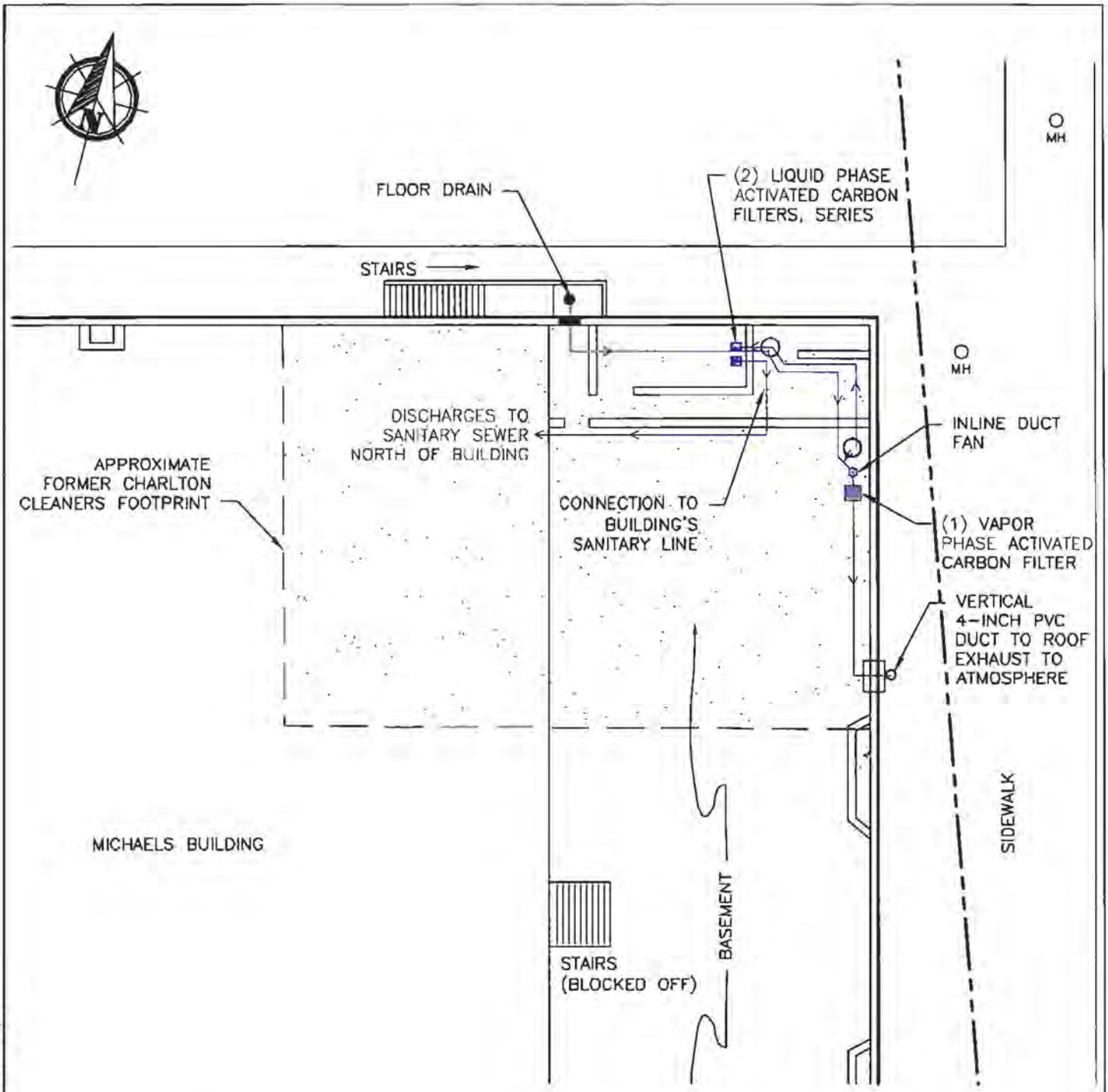

LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF FORMER CHARLTON CLEANERS
- SUMP PIT
- WATER PATH
- VAPOR PATH
- SANITARY LINE

0 15

SCALE IN FEET

FORMER CHARLTON CLEANERS FACILITY
VCP # W3-0891-01-06
FOREST AVENUE SHOPPERS TOWN
24 BARRETT AVENUE
STATEN ISLAND NEW YORK

IRM: SUMP WATER/VAPOR TREATMENT AND FLOW PATHS

DATE	REVISED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Groundwater and Environmental Engineering Services
110 Corporate Park Drive
Suite 112
White Plains, NY 10604
(914) 694-5711

DRAWN:	RAC	CHECKED:	PW	DATE:	10/26/09	FIGURE:	6

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APPENDIX

LARGE NORTH SUMP PIT IN EQUIPMENT ROOM, PRIOR TO 2009 IRM

EQUIPMENT ROOM LOOKING EAST

WEST ROOM, PRIOR TO 2009 IRM

MAIN BASEMENT LOOKING NORTHWEST

EXCAVATING SOIL IN EQUIPMENT ROOM

CONTINUED EXCAVATION, NOTE COBBLES

SLOTS CUT IN SIDE OF LARGE SUMP PIT

EQUIPMENT ROOM BACKFILLED, NOTE VERTICAL PIPE

EXCAVATING WEST ROOM

EQUIPMENT ROOM RESTORED

LARGE SUMP PIT WITH NEW PLUMBING

TWO LIQUID-PHASE CARBON FILTERS IN SERIES

DUCT FAN, VAPOR PHASE CARBON FILTER, SMALL NORTH SUMP PIT

EXHAUST PIPING FROM CARBON FILTER

INNOVATIVE
RECYCLING TECHNOLOGIES, INC.

690 No. Queens Avenue
Lindenhurst, NY 11757
Phone: (631) 225-3044
Fax: (631) 225-3056

October 12, 2009

NYS Dept. of Environmental Conservation
DSHM, Hazardous Waste Manifest Section
625 Broadway, Floor 9
Albany, NY 12233-7252

Re: Generator Copies of Hazardous Waste Manifests.

Dear Director:

Innovative Recycling Technologies, Inc., on behalf of Former Carlton Cleaners, has enclosed the generator's copies of the manifests for a shipment of waste. If you have any further questions regarding the manifests, please feel free to contact me at 631-225-3044.

The following manifests are enclosed:

006325552JJK

Very truly yours,

John Dull
Vice President

CC: Paul Woodell, LBG
w/enclosures

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD981057004
2. Page 1 of: 1
3. Emergency Response Phone: 518-818-4788
4. Manifest Tracking Number: 006325552 JJK

GENERATOR

5. Generator's Name and Mailing Address
Former Carlton Cleaners
24 Barrett Avenue
Staten Island, NY 10310
Generator's Phone: 914-694-5712

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Freehold Cartage, Inc.
U.S. EPA ID Number: NJD054126104

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM Chemical Services LLC
1550 Balmer Road
Model City, NY 14107
U.S. EPA ID Number: NYD049836679
Facility's Phone: 716-268-0401

9a. HM	9b U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PGIII, (Tetrachloroethylene) (F002) ERG#171	01	CM	EST 12	Y	F002		L
	2.							
	3							
	4							

14. Special Handling Instructions and Additional Information
SR-916607-1 9:30AM Lic Plate AA893E NJ

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: John Dull on Behalf of Former Carleton Cleaner
Signature:
Month: 10 Day: 09 Year: 09

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bill Burns
Signature: Bill Burns
Month: 10 Day: 09 Year: 09
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e. codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

10/06/09

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (PHASE IV)

MDC-NY300155

Generator Name: FORMER CARLTON CLEANERS Manifest Doc. No.: 006325552JJK

Profile Number: NY300155 State Manifest No: [redacted]

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater _
2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent treatment standards are listed on the following page. If F039, multi-source leachate applies, those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the charscteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F002		X	D
2				
3				
4				

To identify F039 or D001-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here:
If no UHCs are present in the waste upon its initial generation check here: X
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-D) and check here:
Disposal facility monitors for all UHCs check here _
If waste will be managed in a system regulated under the CWA, or a Class 1 injection well under the SDWA check here

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, B5, B6, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, B5, B6, or D you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.45 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] on Behalf of Carlton Cleaners Title Agent Date 10/9/09

SOLVENT

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

[2]

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	[1] Treatment Standard		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	[1] Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters
Tetrachloroethylene (F001, F002)	0.056	6.0			

[1] All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

[2] For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of constituents or less than 10 x the standards listed.

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory.

B. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYD981087604	1	516-816-4765	006325552 JJK

GENERATOR

5. Generator's Name and Mailing Address
Former Carlton Cleaners
24 Barrett Avenue
Staten Island, NY 10310
Generator's Phone: 914-694-5712

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Freehold Cartage, Inc. — U.S. EPA ID Number: NJD054126184

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM Chemical Services LLC
1550 Balmer Road
Model City, NY 14107
Facility's Phone: 716-286-0451

U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PGIII, (Tetrachloroethylene) (F002) ERG#171	01	CM	EST 12	Y	F002		L
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1)NY300155
rec'd 21,880 P 81637465
SR-916607-1 9:30 AM Lic Plate AA393E NJ

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JOHN DULL on behalf of former Carleton cleaners — Signature: JDull — Month 10 Day 09 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bill Burns — Signature: Bill Burns — Month 10 Day 09 Year 09
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Roberta Kloda — Signature: Roberta K — Month 10 Day 14 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

175748

30
Cubic Yards

1638131 ME

Receipt # | Trailer License Plate # and State

716607-1 | NJ113

Service Req. # | Profile # | Permit #

777/4461/0810

Transporter Name | Tractor/Trailer/Roll-off #

SNYDER | CARLTON CLEANER

Driver's Name | Generator

SCALE 1
10:40 AM 10/14/09

SCALE 2
11:03 AM 10/14/09

21880 P

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date ______ Time In ______ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ______ Initials ______ Comments

☐ Leaker   ☐ Permit Violation   ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☐ Bulk to Landfill   ☐ No wet line   ☐ Flatbed   ☐ Stabilization   ☐ Drums   ☐ Tanker   ☐ Transformers

Laboratory ______ Time In ______ Time Out ______ Initials ______ Comments

Stabilization ______ Time In ______ Time Out ______ Initials ______ Gross Wt. ______ Comments

Landfill ______ Time In ______ Time Out ______ Initials ______ Comments

Other ______ Time In ______ Time Out ______ Initials ______ Comments

Aqueous Treatment ______ Time In ______ Time Out ______ Signature (NO Initials) ______ Comments

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas
______ Failure to obey instructions of facility personnel
______ Failure to wear appropriate PPE
______ Unsafe driving practices
______ Other (specify) ______
______ Leaving truck unattended
______ Failure to display overweight flag
______ Improper tarping or detarpin
______ Overweight upon arrival

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Acct. Rec.   Pink: Facility ...

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Leggette Brashears & Graham
110 Corporate Park Drive
Suite 112
White Plains, New York 10604
Attention: Paul Woodell

Report Date: 9/15/2009
Re: Client Project ID: Charlton Cleaners
York Project No.: 09090481

CT License No. PH-0723 New Jersey License No. CT-005 New York License No. 10854 PA Reg. 68-04440

nelac nelap

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 9/15/2009
Client Project ID: Charlton Cleaners
York Project No.: 09090481

Leggette Brashears & Graham
110 Corporate Park Drive
Suite 112
White Plains, New York 10604
Attention: Paul Woodell

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/14/09. The project was identified as your project "Charlton Cleaners".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			B-1 (2')		B-1 (6')	
York Sample ID			09090481-01		09090481-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, 8260 List + MTBE	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,1-Trichloroethane			Not detected	5.0	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,2-Trichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethylene			Not detected	5.0	Not detected	10
1,1-Dichloropropylene			Not detected	5.0	Not detected	10
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,3-Trichloropropane			Not detected	5.0	Not detected	10
1,2,3-Trimethylbenzene			Not detected	5.0	Not detected	10
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	10
1,2-Dibromoethane			Not detected	5.0	Not detected	10
1,2-Dichlorobenzene			Not detected	5.0	Not detected	10
1,2-Dichloroethane			Not detected	5.0	Not detected	10

YORK

Client Sample ID			B-1 (2')		B-1 (6')	
York Sample ID			09090481-01		09090481-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloroethylene (Total)			12	5.0	120(cis-)	10
1,2-Dichloropropane			Not detected	5.0	Not detected	10
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	10
1,3-Dichlorobenzene			Not detected	5.0	Not detected	10
1,3-Dichloropropane			Not detected	5.0	Not detected	10
1,4-Dichlorobenzene			Not detected	5.0	Not detected	10
2,2-Dichloropropane			Not detected	5.0	Not detected	10
2-Chlorotoluene			Not detected	5.0	Not detected	10
4-Chlorotoluene			Not detected	5.0	Not detected	10
Benzene			Not detected	5.0	Not detected	10
Bromobenzene			Not detected	5.0	Not detected	10
Bromochloromethane			Not detected	5.0	Not detected	10
Bromodichloromethane			Not detected	5.0	Not detected	10
Bromoform			Not detected	5.0	Not detected	10
Bromomethane			Not detected	5.0	Not detected	10
Carbon tetrachloride			Not detected	5.0	Not detected	10
Chlorobenzene			Not detected	5.0	Not detected	10
Chloroethane			Not detected	5.0	Not detected	10
Chloroform			Not detected	5.0	Not detected	10
Chloromethane			Not detected	5.0	Not detected	10
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Dibromochloromethane			Not detected	5.0	Not detected	10
Dibromomethane			Not detected	5.0	Not detected	10
Dichlorodifluoromethane			Not detected	5.0	Not detected	10
Ethylbenzene			Not detected	5.0	Not detected	10
Hexachlorobutadiene			Not detected	5.0	Not detected	10
Isopropylbenzene			Not detected	5.0	Not detected	10
Methyl tert-butyl ether (MTBE)			Not detected	5.0	Not detected	10
Methylene chloride			Not detected	5.0	Not detected	10
Naphthalene			Not detected	5.0	Not detected	10
n-Butylbenzene			Not detected	5.0	Not detected	10
n-Propylbenzene			Not detected	5.0	Not detected	10
o-Xylene			Not detected	5.0	Not detected	10
p- & m-Xylenes			Not detected	5.0	Not detected	10
p-Isopropyltoluene			Not detected	5.0	Not detected	10
sec-Butylbenzene			Not detected	5.0	Not detected	10
Styrene			Not detected	5.0	Not detected	10
tert-Butylbenzene			Not detected	5.0	Not detected	10
Tetrachloroethylene			23	5.0	120	10
Toluene			Not detected	5.0	Not detected	10
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Trichloroethylene			Not detected	5.0	Not detected	10
Trichlorofluoromethane			Not detected	5.0	Not detected	10
Vinyl chloride			Not detected	5.0	Not detected	10

YORK

Client Sample ID			B-2 (2')		B-2 (6')	
York Sample ID			09090481-03		09090481-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, 8260 List + MTBE	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,1-Trichloroethane			Not detected	5.0	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,2-Trichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethylene			Not detected	5.0	Not detected	10
1,1-Dichloropropylene			Not detected	5.0	Not detected	10
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,3-Trichloropropane			Not detected	5.0	Not detected	10
1,2,3-Trimethylbenzene			Not detected	5.0	Not detected	10
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	10
1,2-Dibromoethane			Not detected	5.0	Not detected	10
1,2-Dichlorobenzene			Not detected	5.0	Not detected	10
1,2-Dichloroethane			Not detected	5.0	Not detected	10
1,2-Dichloroethylene (Total)			11(cis-)	5.0	440(cis-)	10
1,2-Dichloropropane			Not detected	5.0	Not detected	10
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	10
1,3-Dichlorobenzene			Not detected	5.0	Not detected	10
1,3-Dichloropropane			Not detected	5.0	Not detected	10
1,4-Dichlorobenzene			Not detected	5.0	Not detected	10
2,2-Dichloropropane			Not detected	5.0	Not detected	10
2-Chlorotoluene			Not detected	5.0	Not detected	10
4-Chlorotoluene			Not detected	5.0	Not detected	10
Benzene			Not detected	5.0	Not detected	10
Bromobenzene			Not detected	5.0	Not detected	10
Bromochloromethane			Not detected	5.0	Not detected	10
Bromodichloromethane			Not detected	5.0	Not detected	10
Bromoform			Not detected	5.0	Not detected	10
Bromomethane			Not detected	5.0	Not detected	10
Carbon tetrachloride			Not detected	5.0	Not detected	10
Chlorobenzene			Not detected	5.0	Not detected	10
Chloroethane			Not detected	5.0	Not detected	10
Chloroform			Not detected	5.0	Not detected	10
Chloromethane			Not detected	5.0	Not detected	10
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Dibromochloromethane			Not detected	5.0	Not detected	10
Dibromomethane			Not detected	5.0	Not detected	10
Dichlorodifluoromethane			Not detected	5.0	Not detected	10
Ethylbenzene			Not detected	5.0	Not detected	10
Hexachlorobutadiene			Not detected	5.0	Not detected	10
Isopropylbenzene			Not detected	5.0	Not detected	10
Methyl tert-butyl ether (MTBE)			Not detected	5.0	Not detected	10
Methylene chloride			Not detected	5.0	Not detected	10
Naphthalene			Not detected	5.0	Not detected	10
n-Butylbenzene			Not detected	5.0	Not detected	10
n-Propylbenzene			Not detected	5.0	Not detected	10
o-Xylene			Not detected	5.0	Not detected	10
p- & m-Xylenes			Not detected	5.0	Not detected	10

YORK

Client Sample ID			B-2 (2')		B-2 (6')	
York Sample ID			09090481-03		09090481-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
p-Isopropyltoluene			Not detected	5.0	Not detected	10
sec-Butylbenzene			Not detected	5.0	Not detected	10
Styrene			Not detected	5.0	Not detected	10
tert-Butylbenzene			Not detected	5.0	Not detected	10
Tetrachloroethylene			62	5.0	370	10
Toluene			Not detected	5.0	Not detected	10
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Trichloroethylene			Not detected	5.0	23	10
Trichlorofluoromethane			Not detected	5.0	Not detected	10
Vinyl chloride			Not detected	5.0	Not detected	10

Client Sample ID			B-3 (2')		B-3 (6')	
York Sample ID			09090481-05		09090481-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, 8260 List + MTBE	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	50
1,1,1-Trichloroethane			Not detected	10	Not detected	50
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	50
1,1,2-Trichloroethane			Not detected	10	Not detected	50
1,1-Dichloroethane			Not detected	10	Not detected	50
1,1-Dichloroethylene			Not detected	10	Not detected	50
1,1-Dichloropropylene			Not detected	10	Not detected	50
1,2,3-Trichlorobenzene			Not detected	10	Not detected	50
1,2,3-Trichloropropane			Not detected	10	Not detected	50
1,2,3-Trimethylbenzene			Not detected	10	Not detected	50
1,2,4-Trichlorobenzene			Not detected	10	Not detected	50
1,2,4-Trimethylbenzene			Not detected	10	Not detected	50
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	50
1,2-Dibromoethane			Not detected	10	Not detected	50
1,2-Dichlorobenzene			Not detected	10	Not detected	50
1,2-Dichloroethane			Not detected	10	Not detected	50
1,2-Dichloroethylene (Total)			310(cis-)	10	980(cis-)	50
1,2-Dichloropropane			Not detected	10	Not detected	50
1,3,5-Trimethylbenzene			Not detected	10	Not detected	50
1,3-Dichlorobenzene			Not detected	10	Not detected	50
1,3-Dichloropropane			Not detected	10	Not detected	50
1,4-Dichlorobenzene			Not detected	10	Not detected	50
2,2-Dichloropropane			Not detected	10	Not detected	50
2-Chlorotoluene			Not detected	10	Not detected	50
4-Chlorotoluene			Not detected	10	Not detected	50
Benzene			Not detected	10	Not detected	50
Bromobenzene			Not detected	10	Not detected	50
Bromochloromethane			Not detected	10	Not detected	50
Bromodichloromethane			Not detected	10	Not detected	50
Bromoform			Not detected	10	Not detected	50
Bromomethane			Not detected	10	Not detected	50
Carbon tetrachloride			Not detected	10	Not detected	50
Chlorobenzene			Not detected	10	Not detected	50

YORK

Client Sample ID			B-3 (2')		B-3 (6')	
York Sample ID			09090481-05		09090481-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloroethane			Not detected	10	Not detected	50
Chloroform			Not detected	10	Not detected	50
Chloromethane			Not detected	10	Not detected	50
cis-1,3-Dichloropropylene			Not detected	10	Not detected	50
Dibromochloromethane			Not detected	10	Not detected	50
Dibromomethane			Not detected	10	Not detected	50
Dichlorodifluoromethane			Not detected	10	Not detected	50
Ethylbenzene			Not detected	10	Not detected	50
Hexachlorobutadiene			Not detected	10	Not detected	50
Isopropylbenzene			Not detected	10	Not detected	50
Methyl tert-butyl ether (MTBE)			Not detected	10	Not detected	50
Methylene chloride			Not detected	10	Not detected	50
Naphthalene			Not detected	10	Not detected	50
n-Butylbenzene			Not detected	10	Not detected	50
n-Propylbenzene			Not detected	10	Not detected	50
o-Xylene			Not detected	10	Not detected	50
p- & m-Xylenes			Not detected	10	Not detected	50
p-Isopropyltoluene			Not detected	10	Not detected	50
sec-Butylbenzene			Not detected	10	Not detected	50
Styrene			Not detected	10	Not detected	50
tert-Butylbenzene			Not detected	10	Not detected	50
Tetrachloroethylene			300	10	2600	50
Toluene			Not detected	10	Not detected	50
trans-1,3-Dichloropropylene			Not detected	10	Not detected	50
Trichloroethylene			110	10	90	50
Trichlorofluoromethane			Not detected	10	Not detected	50
Vinyl chloride			42	10	64	50

Client Sample ID			B-4 (2')		B-4 (6')	
York Sample ID			09090481-07		09090481-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, 8260 List + MTBE	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	5.0
1,1,1-Trichloroethane			Not detected	10	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	5.0
1,1,2-Trichloroethane			Not detected	10	Not detected	5.0
1,1-Dichloroethane			Not detected	10	Not detected	5.0
1,1-Dichloroethylene			Not detected	10	Not detected	5.0
1,1-Dichloropropylene			Not detected	10	Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	10	Not detected	5.0
1,2,3-Trichloropropane			Not detected	10	Not detected	5.0
1,2,3-Trimethylbenzene			Not detected	10	Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	10	Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	10	Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	5.0
1,2-Dibromoethane			Not detected	10	Not detected	5.0
1,2-Dichlorobenzene			Not detected	10	Not detected	5.0
1,2-Dichloroethane			Not detected	10	Not detected	5.0

YORK

Client Sample ID			B-4 (2')		B-4 (6')	
York Sample ID			09090481-07		09090481-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloroethylene (Total)			18(cis-)	10	Not detected	5.0
1,2-Dichloropropane			Not detected	10	Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	10	Not detected	5.0
1,3-Dichlorobenzene			Not detected	10	Not detected	5.0
1,3-Dichloropropane			Not detected	10	Not detected	5.0
1,4-Dichlorobenzene			Not detected	10	Not detected	5.0
2,2-Dichloropropane			Not detected	10	Not detected	5.0
2-Chlorotoluene			Not detected	10	Not detected	5.0
4-Chlorotoluene			Not detected	10	Not detected	5.0
Benzene			Not detected	10	Not detected	5.0
Bromobenzene			Not detected	10	Not detected	5.0
Bromochloromethane			Not detected	10	Not detected	5.0
Bromodichloromethane			Not detected	10	Not detected	5.0
Bromoform			Not detected	10	Not detected	5.0
Bromomethane			Not detected	10	Not detected	5.0
Carbon tetrachloride			Not detected	10	Not detected	5.0
Chlorobenzene			Not detected	10	Not detected	5.0
Chloroethane			Not detected	10	Not detected	5.0
Chloroform			Not detected	10	Not detected	5.0
Chloromethane			Not detected	10	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	10	Not detected	5.0
Dibromochloromethane			Not detected	10	Not detected	5.0
Dibromomethane			Not detected	10	Not detected	5.0
Dichlorodifluoromethane			Not detected	10	Not detected	5.0
Ethylbenzene			Not detected	10	Not detected	5.0
Hexachlorobutadiene			Not detected	10	Not detected	5.0
Isopropylbenzene			Not detected	10	Not detected	5.0
Methyl tert-butyl ether (MTBE)			Not detected	10	Not detected	5.0
Methylene chloride			Not detected	10	Not detected	5.0
Naphthalene			Not detected	10	Not detected	5.0
n-Butylbenzene			Not detected	10	Not detected	5.0
n-Propylbenzene			Not detected	10	Not detected	5.0
o-Xylene			Not detected	10	Not detected	5.0
p- & m-Xylenes			Not detected	10	Not detected	5.0
p-Isopropyltoluene			Not detected	10	Not detected	5.0
sec-Butylbenzene			Not detected	10	Not detected	5.0
Styrene			Not detected	10	Not detected	5.0
tert-Butylbenzene			Not detected	10	Not detected	5.0
Tetrachloroethylene			240	10	12	5.0
Toluene			Not detected	10	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	10	Not detected	5.0
Trichloroethylene			Not detected	10	Not detected	5.0
Trichlorofluoromethane			Not detected	10	Not detected	5.0
Vinyl chloride			Not detected	10	Not detected	5.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Notes for York Project No. 09090481

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 9/15/2009

YORK

YORK

Analytical Laboratories, Inc.

QA/QC Summary Report

Associated Samples: AE31405 — 15-Sep-09

Client: Leggette Brashears & Graham

Analysis Name: *VOA QC Soils* — **Batch Name:** $VOAS-35723 — **QA Sample #:** AE31405

Unit of Measure: ug/kg — **York's Sample ID:** 09090481-01

Parameter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate Duplicate	Spike Duplicate Recovery,%	Precision, RPD
Trichloroethylene	101	Not detected	Not detected	50	51	102.0	51	102.0	0.0
Toluene	103	Not detected	Not detected	50	52	104.0	52	104.0	0.0
Chlorobenzene	103	Not detected	Not detected	50	52	104.0	52	104.0	0.0
Benzene	101	Not detected	Not detected	50	51	102.0	52	104.0	1.9
1,1-Dichloroethylene	106	Not detected	Not detected	50	54	108.0	54	108.0	0.0

YORK ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 09090481

Client Information	Report To:	Invoice To:	Client Project ID	Turn-Around Time	Report Type/Deliverbles
Company: LBG	Company: LBG	Company: LBG	CHARLTON CLEANERS	(24 hr) ON 8260 FULL	Summary Results Only X – ON "SOLID WASTE CHAR" QA/QC Summary
Address: White Plains	Address:	Address:	Purchase Order No.	48 hr	RCP Package ASP B Pkg ←
Phone No.	Phone No.	Phone No.		72 hr	ASP A Pkg Excel format
Contact Person: Paul Woodell	Attention:	Attention:		5 Day	EDD OTHER
E-Mail Address:	E-Mail Address:	E-Mail Address:		Standard X	

WILL REQUIRE BASED ON RESULTS (AS PER RICH)

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Paul Woodell
Samples Collected/Authorized By (Signature)

PAUL Woodell
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Miscellaneous Parameters			Special Instructions
(8260 full)	TICs	(8270 or 625)	(8082PCB)	(RCRA8)	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color	Field Filtered ☐
624	Site Spec.	STARS	(8081Pest)	PP13	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols	Lab to Filter ☐
STARS	SPLP or TCLP	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T	
BTEX	Benzene	Acids Only	CT RCP	CT15	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A	
MTBE	Nassau Co.	PAH	App. IX	Total	TPH 418.1	Full App. IX	Sieve Anal.	Ammonia-N	BOD5	
TCL list	Suffolk Co.	TAGM	Site Spec.	Dissolved	Air TO14A		Heterotrophs	Chloride	CBOD5	
TAGM	Ketones	CT RCP	SPLP or TCLP	SPLP or TCLP	Air TO15		TOX	Phosphate	BOD28	
CT RCP	Oxygenates	TCL list	TCLP Pest		Air STARS		BTU/lb.	Tot. Phos.	COD	
Arom.	TCLP list	TICs	TCLP Herb		Air VPH		Aquatic Tox.	Oil&Grease	TSS	
Halog.	524.2	App. IX	Chlordane		Air TICs	NYCDEP	TOC	F.O.G.	Total Solids	
App.IX	502.2	SPLP or TCLP	608 Pest		Methane	NYSDEC	Asbestos	pH	TDS	
8021B list	5035	TCLP BNA	608 PCB		Helium	TAGM	Silica	MBAS	TPH-IR	

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below							Container Description(s)
B-1 (2')	9/11/09 0957	S	8260FULL							2oz
B-1 (6')	1015	↓	8260FULL							4oz
B-2 (2')	1022	↓	8260FULL							4oz
B-2 (6')	1254	↓	8260FULL	✓	✓	✓				4oz/8oz
B-3 (2')	1320	↓	8260FULL							4oz
B-3 (6')	1341	↓	8260FULL	✓	✓	✓				4oz, 8oz
B-4 (2')	1400	↓	8260FULL							4oz
B-4 (6')	1431	↓	8260FULL							4oz
SOLID WASTE CHAR	1605		WILL ADVISE ON PARAMETERS							(2) 8oz

Preservation (Check those Applicable): 4°C ___ Frozen ___ HCl MeOH 4°C ✓ 4°C HNO₃ 4°C H₂SO₄ 4°C Other 4°C ZnAc H₂SO₄ Ascorbic NaOH Other

Comments
Please call with questions
SUMMARY Results on "Solid Waste"

Samples Relinquished By	Date/Time	Samples Received By	Date/Time	Temperature on Receipt
Paul Woodell	9/14/4:50	[signature]	9-14-09 11:50	3.7 °C
Samples Relinquished By	Date/Time	Samples Received in LAB by [signature]	9/14/09 1610	

POSSIBLY ASP CAT B ON OTHERS DEPENDING ON RESULTS

G9090 481

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LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER AND ENVIRONMENTAL ENGINEERING SERVICES

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FAX COVER SHEET

DATE:	9/14
PLEASE DELIVER TO:	Phil Murphy
COMPANY:	YORK
FAX NUMBER:	203 357 0166
FROM:	Paul Woodall
TOTAL NUMBER OF PAGES (INCLUDING THIS PAGE):	3
SUBJECT:	24 HOUR TAT
COMMENTS:	~~**PRIVILEGED AND CONFIDENTIAL**~~

~~THE INFORMATION CONTAINED IN THIS FAX TRANSMISSION IS INTENDED ONLY FOR THE PERSONAL AND CONFIDENTIAL USE OF THE DESIGNATED RECIPIENT NAMED ABOVE. THIS TRANSMISSION MAY BE AN ATTORNEY-CLIENT COMMUNICATION, AND AS SUCH IS PRIVILEGED AND CONFIDENTIAL.~~

Phil, your guy just left office. He has 8 soil samples for 8260 FULL with 24-hr TAT. Please call w/ questions

Thanks,
Paul

If you do not receive all the correct number of pages, please call Darlene M. Day at (914) 694-5711, as soon as possible.

A hard copy of this transmission will follow by: ____ regular mail, or ____ overnight service. Please join us in observing this FAX courtesy.

YORK
ANALYTICAL LABORATORIES, INC.

B-2 (6')
B-3 (6')
8270
P-2 water

Technical Report

RECEIVED
SEP 2 _ 2009
LBG - NY

prepared for:

Leggette Brashears & Graham
110 Corporate Park Drive
Suite 112
White Plains, New York 10604
Attention: Paul Woodell

Report Date: 9/18/2009
Re: Client Project ID: Charlton Cleaners
York Project No.: 09090482

CT License No. PH-0723 New Jersey License No. CT-005 New York License No. 10854 PA Reg. 68-04440

nelac nelap

Report Date: 9/18/2009
Client Project ID: Charlton Cleaners
York Project No.: 09090482

Leggette Brashears & Graham
110 Corporate Park Drive
Suite 112
White Plains, New York 10604
Attention: Paul Woodell

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/14/09. The project was identified as your project "Charlton Cleaners".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			B-2 (6')		
York Sample ID			09090482-01		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Pesticides, 8081 List	SW846-3550B/8081	ug/Kg	---	---	---
4,4'-DDD			Not detected		1.84
4,4'-DDE			Not detected		1.84
4,4'-DDT			Not detected		1.84
Aldrin			Not detected		0.920
alpha Chlordane			Not detected		0.920
alpha-BHC			Not detected		0.920
beta-BHC			Not detected		0.920
delta-BHC			Not detected		0.920
Dieldrin			Not detected		0.380
Endosulfan I			Not detected		0.920
Endosulfan II			Not detected		1.84
Endosulfan sulfate			Not detected		1.84

YORK

Client Sample ID			B-2 (6')		
York Sample ID			09090482-01		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Endrin			Not detected		1.84
Endrin aldehyde			Not detected		1.84
gamma Chlordane			Not detected		0.920
gamma-BHC (Lindane)			Not detected		0.920
Heptachlor			Not detected		0.920
Heptachlor epoxide			Not detected		0.920
Methoxychlor			Not detected		9.20
Toxaphene			Not detected		11.5
BNA, 8270 List	SW846-8270C	ug/Kg	---	---	---
1,2,4-Trichlorobenzene			Not detected		290
1,2-Dichlorobenzene			Not detected		290
1,3-Dichlorobenzene			Not detected		290
1,4-Dichlorobenzene			Not detected		290
2,4,5-Trichlorophenol			Not detected		290
2,4,6-Trichlorophenol			Not detected		290
2,4-Dichlorophenol			Not detected		290
2,4-Dimethylphenol			Not detected		290
2,4-Dinitrophenol			Not detected		290
2,4-Dinitrotoluene			Not detected		290
2,6-Dinitrotoluene			Not detected		290
2-Chloronaphthalene			Not detected		290
2-Chlorophenol			Not detected		290
2-Methylnaphthalene			Not detected		290
2-Methylphenol			Not detected		290
2-Nitroaniline			Not detected		290
2-Nitrophenol			Not detected		290
3,3'-Dichlorobenzidine			Not detected		290
3-Methylphenol			Not detected		290
3-Nitroaniline			Not detected		290
4,6-Dinitro-2-methylphenol			Not detected		290
4-Bromophenyl phenyl ether			Not detected		290
4-Chloro-3-methyl phenol			Not detected		290
4-Chloroaniline			Not detected		290
4-Chlorophenyl phenyl ether			Not detected		290
4-Methylphenol			Not detected		290
4-Nitroaniline			Not detected		290
4-Nitrophenol			Not detected		290
Acenaphthene			Not detected		290
Acenaphthylene			Not detected		290
Aniline			Not detected		290
Anthracene			Not detected		290
Benzidine			Not detected		290
Benzo(a)anthracene			Not detected		290
Benzo(a)pyrene			Not detected		290
Benzo(b)fluoranthene			Not detected		290
Benzo(g,h,i)perylene			Not detected		290
Benzo(k)fluoranthene			Not detected		290
Benzyl alcohol			Not detected		290

YORK

Client Sample ID			B-2 (6')		
York Sample ID			09090482-01		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Bis(2-chloroethoxy)methane			Not detected		290
Bis(2-chloroethyl)ether			Not detected		290
Bis(2-chloroisopropyl)ether			Not detected		290
Bis(2-ethylhexyl)phthalate			Not detected		290
Butyl benzyl phthalate			Not detected		290
Chrysene			Not detected		290
Dibenz(a,h)anthracene			Not detected		290
Dibenzofuran			Not detected		290
Diethylphthalate			Not detected		290
Dimethylphthalate			Not detected		290
Di-n-butylphthalate			Not detected		290
Di-n-octylphthalate			Not detected		290
Fluoranthene			Not detected		290
Fluorene			Not detected		290
Hexachlorobenzene			Not detected		290
Hexachlorobutadiene			Not detected		290
Hexachlorocyclopentadiene			Not detected		290
Hexachloroethane			Not detected		290
Indeno(1,2,3-cd)pyrene			Not detected		290
Isophorone			Not detected		290
Naphthalene			Not detected		290
Nitrobenzene			Not detected		290
N-Nitrosodi-n-propylamine			Not detected		290
N-Nitrosodiphenylamine			Not detected		290
Pentachlorophenol			Not detected		290
Phenanthrene			Not detected		290
Phenol			Not detected		290
Pyrene			Not detected		290
Pyridine			Not detected		290
PCB	SW846-3550B/8082	mg/Kg	---	---	---
PCB 1016			Not detected		0.0195
PCB 1221			Not detected		0.0195
PCB 1232			Not detected		0.0195
PCB 1242			Not detected		0.0195
PCB 1248			Not detected		0.0195
PCB 1254			Not detected		0.0195
PCB 1260			Not detected		0.0195
Metals, Total RCRA List	SW846	mg/kG	---	---	---
Arsenic, total			6.68		1.2
Barium, total			58.9		0.58
Cadmium, total			0.61		0.58
Chromium, total			14.7		0.58
Lead, total			11.2		0.58
Selenium, total			Not detected		1.2
Silver, total			Not detected		0.58
Mercury	SW846-7471	mg/kG	Not detected	---	0.115
Total Solids	SM 2540B	%	86.8	---	1.0

YORK

Client Sample ID			B-3 (6')		
York Sample ID			09090482-02		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Pesticides, 8081 List	SW846-3550B/8081	ug/Kg	---	---	---
4,4'-DDD			Not detected		1.94
4,4'-DDE			Not detected		1.94
4,4'-DDT			Not detected		1.94
Aldrin			Not detected		0.968
alpha Chlordane			Not detected		0.968
alpha-BHC			Not detected		0.968
beta-BHC			Not detected		0.968
delta-BHC			Not detected		0.968
Dieldrin			Not detected		0.399
Endosulfan I			Not detected		0.968
Endosulfan II			Not detected		1.94
Endosulfan sulfate			Not detected		1.94
Endrin			Not detected		1.94
Endrin aldehyde			Not detected		1.94
gamma Chlordane			Not detected		0.968
gamma-BHC (Lindane)			Not detected		0.968
Heptachlor			Not detected		0.968
Heptachlor epoxide			Not detected		0.968
Methoxychlor			Not detected		9.68
Toxaphene			Not detected		12.1
BNA, 8270 List	SW846-8270C	ug/Kg	---	---	---
1,2,4-Trichlorobenzene			Not detected		300
1,2-Dichlorobenzene			Not detected		300
1,3-Dichlorobenzene			Not detected		300
1,4-Dichlorobenzene			Not detected		300
2,4,5-Trichlorophenol			Not detected		300
2,4,6-Trichlorophenol			Not detected		300
2,4-Dichlorophenol			Not detected		300
2,4-Dimethylphenol			Not detected		300
2,4-Dinitrophenol			Not detected		300
2,4-Dinitrotoluene			Not detected		300
2,6-Dinitrotoluene			Not detected		300
2-Chloronaphthalene			Not detected		300
2-Chlorophenol			Not detected		300
2-Methylnaphthalene			Not detected		300
2-Methylphenol			Not detected		300
2-Nitroaniline			Not detected		300
2-Nitrophenol			Not detected		300
3,3'-Dichlorobenzidine			Not detected		300
3-Methylphenol			Not detected		300
3-Nitroaniline			Not detected		300
4,6-Dinitro-2-methylphenol			Not detected		300
4-Bromophenyl phenyl ether			Not detected		300
4-Chloro-3-methyl phenol			Not detected		300
4-Chloroaniline			Not detected		300
4-Chlorophenyl phenyl ether			Not detected		300

YORK

Client Sample ID			B-3 (6')		
York Sample ID			09090482-02		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
4-Methylphenol			Not detected		300
4-Nitroaniline			Not detected		300
4-Nitrophenol			Not detected		300
Acenaphthene			Not detected		300
Acenaphthylene			Not detected		300
Aniline			Not detected		300
Anthracene			Not detected		300
Benzidine			Not detected		300
Benzo(a)anthracene			Not detected		300
Benzo(a)pyrene			Not detected		300
Benzo(b)fluoranthene			Not detected		300
Benzo(g,h,i)perylene			Not detected		300
Benzo(k)fluoranthene			Not detected		300
Benzyl alcohol			Not detected		300
Bis(2-chloroethoxy)methane			Not detected		300
Bis(2-chloroethyl)ether			Not detected		300
Bis(2-chloroisopropyl)ether			Not detected		300
Bis(2-ethylhexyl)phthalate			Not detected		300
Butyl benzyl phthalate			Not detected		300
Chrysene			Not detected		300
Dibenz(a,h)anthracene			Not detected		300
Dibenzofuran			Not detected		300
Diethylphthalate			Not detected		300
Dimethylphthalate			Not detected		300
Di-n-butylphthalate			Not detected		300
Di-n-octylphthalate			Not detected		300
Fluoranthene			Not detected		300
Fluorene			Not detected		300
Hexachlorobenzene			Not detected		300
Hexachlorobutadiene			Not detected		300
Hexachlorocyclopentadiene			Not detected		300
Hexachloroethane			Not detected		300
Indeno(1,2,3-cd)pyrene			Not detected		300
Isophorone			Not detected		300
Naphthalene			Not detected		300
Nitrobenzene			Not detected		300
N-Nitrosodi-n-propylamine			Not detected		300
N-Nitrosodiphenylamine			Not detected		300
Pentachlorophenol			Not detected		300
Phenanthrene			Not detected		300
Phenol			Not detected		300
Pyrene			Not detected		300
Pyridine			Not detected		300
PCB	SW846-3550B/8082	mg/Kg	---	---	---
PCB 1016			Not detected		0.0206
PCB 1221			Not detected		0.0206
PCB 1232			Not detected		0.0206
PCB 1242			Not detected		0.0206

YORK

Client Sample ID			B-3 (6')		
York Sample ID			09090482-02		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
PCB 1248			Not detected		0.0206
PCB 1254			Not detected		0.0206
PCB 1260			Not detected		0.0206
Metals, Total RCRA List	SW846	mg/kG	---	---	---
Arsenic, total			6.50		1.2
Barium, total			62.4		0.61
Cadmium, total			Not detected		0.61
Chromium, total			11.9		0.61
Lead, total			15.4		0.61
Selenium, total			Not detected		1.2
Silver, total			Not detected		0.61
Mercury	SW846-7471	mg/kG	Not detected	---	0.121
Total Solids	SM 2540B	%	82.6	---	1.0

Client Sample ID			Clay Pipe		
York Sample ID			09090482-03		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List + MTBE	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			3	J	5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0

YORK

Client Sample ID			Clay Pipe		
York Sample ID			09090482-03		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			850		25.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methyl tert-butyl ether (MTBE)			1	J	5.0
Methylene chloride			7	JB	10.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			990		25.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			3	J	5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			83		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			130		5.0

Client Sample ID			Corrogated Pipe		
York Sample ID			09090482-04		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List + MTBE	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0

YORK

Client Sample ID			Corrogated Pipe		
York Sample ID			09090482-04		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			180		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methyl tert-butyl ether (MTBE)			Not detected		5.0
Methylene chloride			6	JB	10.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			280		10.0

YORK

Client Sample ID			Corrogated Pipe		
York Sample ID			09090482-04		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			2	J	5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			38		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			1	J	5.0

Client Sample ID			B-2		
York Sample ID			09090482-05		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List + MTBE	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			5		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			1	J	5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0

YORK

Client Sample ID			B-2		
York Sample ID			09090482-05		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
cis-1,2-Dichloroethylene			85		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methyl tert-butyl ether (MTBE)			Not detected		5.0
Methylene chloride			7	JB	10.0
Naphthalene			11		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			1	J	5.0
p- & m-Xylenes			1	J	5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			230		25.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			5		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			28		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			29		5.0

Client Sample ID			B-3		
York Sample ID			09090482-06		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List + MTBE	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			3	J	5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0

YORK

Client Sample ID			B-3		
York Sample ID			09090482-06		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			930		25.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methyl tert-butyl ether (MTBE)			Not detected		5.0
Methylene chloride			6	JB	10.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			900		25.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			3	J	5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			85		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			140		5.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Report Date: 9/18/2009
Client Project ID: Charlton Cleaners
York Project No.: 09090482

Notes for York Project No. 09090482

1. The "RL" is the REPORTING LIMIT and is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This REPORTING LIMIT is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.
8. Other attachments to this report, including Chain-of-custody documentation and Case narratives are hereby made a part of this report.

Approved By: _____ **Date:** 9/18/2009
Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 09090482

Client Information	Report To:	Invoice To:	Client Project ID	Turn-Around Time	Report Type/Deliverables
Company: LBG	Company: LBG	Company: LBG	CHARLTON CLEANERS	(24 hr) ON 8260 FULL	Summary Results Only X — ON "SOLID WASTE CHAR" — QA/QC Summary
Address: White Plains	Address:	Address:	Purchase Order No.	48 hr	RCP Package — ASP B Pkg. ←
Phone No.	Phone No.	Phone No.		72 hr	ASP A Pkg — Excel format
Contact Person: Paul Woodell	Attention:	Attention:		5 Day	EDD — OTHER
E-Mail Address:	E-Mail Address:	E-Mail Address:		Standard X	

WILL REQUIRE BASED ON RESULTS (AS PER RICH)

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Paul Woodell
Samples Collected/Authorized By (Signature)

PAUL Woodell
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below								Container Description(s)
B-1 (2')	9/11/09 0957	S	8260 FULL								2oz
B-1 (6')	1015	↓	8260 FULL								4oz
B-2 (2')	1022	↓	8260 FULL								4oz
B-2 (6')	1254	↓	8260 FULL	✓	✓	✓					4oz/8oz
B-3 (2')	1320	↓	8260 FULL								4oz
B-3 (6')	1341	↓	8260 FULL	✓	✓	✓					4oz, 8oz
B-4 (2')	1400	↓	8260 FULL								4oz
B-4 (6')	1431	↓	8260 FULL								4oz
SOLID WASTE CHAR	1605		WILL ADVISE ON PARAMETERS								(2) 8oz

Comments: Please call with questions. Summary Results on "Solid Waste"

Preservation — Check those Applicable: 4°C — Frozen — 4°C — 4°C — HNO3 4°C — 4°C H2SO4 — 4°C Other — 4°C ZnAc — H2SO4 Ascorbic — NaOH Other; HCl — MeOH

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Paul Woodell	9/14 4:50	Chris C	9-14-09 11:50
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time 9/14/09 1610

Temperature on Receipt 3.7 °C

POSSIBLY ASP CAT B ON OTHERS DEPENDING ON RESULTS

YORK ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 09090482

Client Information	Report To:	Invoice To:	Client Project ID	Turn-Around Time	Report Type/Deliverbles
Company: LBG	Company: LBG	Company: LBG	CHARLTON CLEANERS	24 hr ___	Summary Results Only ___ QA/QC Summary X
Address: White Plains	Address:	Address:		48 hr ___	RCP Package ___ ASP B Pkg ___
Phone No.	Phone No.	Phone No.	**Purchase Order No.**	72 hr ___	ASP A Pkg ___ Excel format ___
Contact Person: Paul Woodell	Attention:	Attention:		5 Day ___	EDD ___ OTHER ___
E-Mail Address:	E-Mail Address:	E-Mail Address:		Standard X	

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Paul Woodell
Samples Collected/Authorized By (Signature)

Paul Woodell
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Miscellaneous Parameters			Special Instructions
(8260 full) (circled)	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color	Field Filtered ☐
624	Site Spec.	STARS	8081Pest	PP13	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols	Lab to Filter ☐
STARS	SPLP or TCLP	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T	
BTEX	Benzene	Acids Only	CT RCP	CT15	NY 310-13	Full TCLP	Flash Point	Tot Nitrogen	Cyanide-A	
MTBE	Nassau Co.	PAH	App. IX	Total	TPH 418.1	Full App. IX	Sieve Anal.	Ammonia-N	BOD5	
TCL list	Suffolk Co.	TAGM	Site Spec.	Dissolved	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5	
TAGM	Ketones	CT RCP	SPLP or TCLP	SPLP or TCLP	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD[illegible]	
CT RCP	Oxygenates	TCL list	TCLP Pest	[illegible]	Air STARS	Part 360-[illegible]	BTU/lb.	Tot. Phos.	COD	
Arom.	TCLP list	TICs	TCLP Herb	Hg, Pb, As, Cd	Air VPH	Part 360-[illegible]	Aquatic Tox.	Oil&Grease	TSS	
Halog.	524.2	App. IX	Chlordane	Cr, Ni, Be, Fe	Air TICs	NYCDEP[illegible]	TOC	F.O.G.	Total Solids	
App.IX	502.2	SPLP or TCLP	608 Pest	Se, Tl, Sb, Cu	Methane	NYSDEC[illegible]	Asbestos	pH	TDS	
8021B list	503.5	TCLP BNA	608 PCB	Mn, Mo, As, etc.	Helium	TAGM	Silica	MBAS	TPH-IR	

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
CLAY PIPE	9/11/09 1505	GW	8260FULL	(2) VOA
CORROGATED PIPE	1500	GW	"	(2) VOA
B-2	1005	GW	"	(3) VOA
B-3	1100	GW	"	(3) VOA

Comments

Preservation (Check those Applicable): 4°C ___ Frozen ___ 4°C ___ 4°C ___ HNO₃ 4°C ___ 4°C H₂SO₄ ___ 4°C Other ___ 4°C ___ H₂SO₄ ___ NaOH ___ HCl MeOH ZnAc Ascorbic Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Paul Woodell	9/14/09 1150	[signature]	9-14-09 11:50
Samples Relinquished By	Date/Time	Samples Received in LAB by: [signature]	9/14/09 1610

Temperature on Receipt: 3.7°C

Excavation Endpoints

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Leggette Brashears & Graham
110 Corporate Park Drive
Suite 112
White Plains, New York 10604
Attention: Paul Woodell

Report Date: 10/7/2009
Re: Client Project ID: Charlton Cleaners
York Project No.: 09100009

CT License No PH-0723 New Jersey License No. CT-005 New York License No. 10854 PA Reg. 68-04440

nelac nelap

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 10/7/2009
Client Project ID: Charlton Cleaners
York Project No.: 09100009

Leggette Brashears & Graham
110 Corporate Park Drive
Suite 112
White Plains, New York 10604
Attention: Paul Woodell

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/30/09. The project was identified as your project "Charlton Cleaners".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			S-1		
York Sample ID			09100009-01		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12

YORK

Client Sample ID			S-1		
York Sample ID			09100009-01		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
1,2-Dibromoethane			Not detected		12
1,2-Dichlorobenzene			Not detected		12
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12
Bromochloromethane			Not detected		12
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12
Chloromethane			Not detected		12
cis-1,2-Dichloroethylene			140		12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			6	J	12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			18	JB	23
MTBE			Not detected		12
Naphthalene			Not detected		12
n-Butylbenzene			Not detected		12
n-Propylbenzene			Not detected		12
o-Xylene			5	J	12
p- & m-Xylenes			19		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12
Tetrachloroethylene			220		12
Toluene			Not detected		12

YORK

Client Sample ID			S-1		
York Sample ID			09100009-01		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			27		12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			9	J	12
Total Solids	SM 2540B	%	86.6	---	1.0

Client Sample ID			S-2		
York Sample ID			09100009-02		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12
1,2-Dibromoethane			Not detected		12
1,2-Dichlorobenzene			Not detected		12
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12
Bromochloromethane			Not detected		12
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12
Chloromethane			Not detected		12

YORK

Client Sample ID			S-2		
York Sample ID			09100009-02		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
cis-1,2-Dichloroethylene			4	J	12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			Not detected		12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			16	JB	23
MTBE			Not detected		12
Naphthalene			Not detected		12
n-Butylbenzene			Not detected		12
n-Propylbenzene			Not detected		12
o-Xylene			Not detected		12
p- & m-Xylenes			Not detected		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12
Tetrachloroethylene			47		12
Toluene			Not detected		12
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			Not detected		12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			Not detected		12
Total Solids	SM 2540B	%	86.9	---	1.0

Client Sample ID			S-3		
York Sample ID			09100009-03		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12
1,2-Dibromoethane			Not detected		12
1,2-Dichlorobenzene			Not detected		12

Client Sample ID			S-3		
York Sample ID			09100009-03		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12
Bromochloromethane			Not detected		12
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12
Chloromethane			Not detected		12
cis-1,2-Dichloroethylene			8	J	12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			Not detected		12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			18	JB	24
MTBE			Not detected		12
Naphthalene			Not detected		12
n-Butylbenzene			Not detected		12
n-Propylbenzene			Not detected		12
o-Xylene			Not detected		12
p- & m-Xylenes			Not detected		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12
Tetrachloroethylene			66		12
Toluene			Not detected		12
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			Not detected		12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			Not detected		12
Total Solids	SM 2540B	%	84.3	---	1.0

YORK

Client Sample ID			Bottom-1		
York Sample ID			09100009-04		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12
1,2-Dibromoethane			Not detected		12
1,2-Dichlorobenzene			Not detected		12
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12
Bromochloromethane			Not detected		12
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12
Chloromethane			Not detected		12
cis-1,2-Dichloroethylene			22		12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			Not detected		12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			16	JB	24
MTBE			Not detected		12
Naphthalene			Not detected		12
n-Butylbenzene			Not detected		12

YORK

Client Sample ID			Bottom-1		
York Sample ID			09100009-04		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
n-Propylbenzene			Not detected		12
o-Xylene			Not detected		12
p- & m-Xylenes			Not detected		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12
Tetrachloroethylene			190		12
Toluene			Not detected		12
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			3	J	12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			Not detected		12
Total Solids	SM 2540B	%	84.5	---	1.0

Client Sample ID			Bottom of Sump		
York Sample ID			09100009-05		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12
1,2-Dibromoethane			Not detected		12
1,2-Dichlorobenzene			Not detected		12
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12
Bromochloromethane			Not detected		12

YORK

Client Sample ID			Bottom of Sump		
York Sample ID			09100009-05		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12
Chloromethane			Not detected		12
cis-1,2-Dichloroethylene			87		12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			5	J	12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			16	JB	24
MTBE			Not detected		12
Naphthalene			Not detected		12
n-Butylbenzene			Not detected		12
n-Propylbenzene			Not detected		12
o-Xylene			4	J	12
p- & m-Xylenes			12		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12
Tetrachloroethylene			240		12
Toluene			Not detected		12
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			13		12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			9	J	12
Total Solids	SM 2540B	%	82.2	---	1.0

Client Sample ID			Bottom-2		
York Sample ID			09100009-06		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12

YORK

Client Sample ID			Bottom-2		
York Sample ID			09100009-06		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12
1,2-Dibromoethane			Not detected		12
1,2-Dichlorobenzene			Not detected		12
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12
Bromochloromethane			Not detected		12
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12
Chloromethane			Not detected		12
cis-1,2-Dichloroethylene			240		12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			Not detected		12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			16	JB	23
MTBE			Not detected		12
Naphthalene			Not detected		12
n-Butylbenzene			Not detected		12
n-Propylbenzene			Not detected		12
o-Xylene			Not detected		12
p- & m-Xylenes			Not detected		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12

YORK

Client Sample ID			Bottom-2		
York Sample ID			09100009-06		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Tetrachloroethylene			420		12
Toluene			Not detected		12
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			25		12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			Not detected		12
Total Solids	SM 2540B	%	86.9	---	1.0

Client Sample ID			S-4		
York Sample ID			09100009-07		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12
1,2-Dibromoethane			Not detected		12
1,2-Dichlorobenzene			Not detected		12
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12
Bromochloromethane			Not detected		12
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12

YORK

Client Sample ID			S-4		
York Sample ID			09100009-07		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Chloromethane			Not detected		12
cis-1,2-Dichloroethylene			90		12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			Not detected		12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			15	JB	23
MTBE			Not detected		12
Naphthalene			Not detected		12
n-Butylbenzene			Not detected		12
n-Propylbenzene			Not detected		12
o-Xylene			Not detected		12
p- & m-Xylenes			Not detected		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12
Tetrachloroethylene			450		12
Toluene			Not detected		12
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			9	J	12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			Not detected		12
Total Solids	SM 2540B	%	86.9	---	1.0

Client Sample ID			S-5		
York Sample ID			09100009-08		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12
1,2-Dibromoethane			Not detected		12

YORK

Client Sample ID			S-5		
York Sample ID			09100009-08		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
1,2-Dichlorobenzene			Not detected		12
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12
Bromochloromethane			Not detected		12
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12
Chloromethane			Not detected		12
cis-1,2-Dichloroethylene			5	J	12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			Not detected		12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			17	JB	23
MTBE			Not detected		12
Naphthalene			Not detected		12
n-Butylbenzene			Not detected		12
n-Propylbenzene			Not detected		12
o-Xylene			Not detected		12
p- & m-Xylenes			Not detected		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12
Tetrachloroethylene			42		12
Toluene			Not detected		12
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			Not detected		12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			Not detected		12
Total Solids	SM 2540B	%	86.8	---	1.0

YORK

Client Sample ID			S-6		
York Sample ID			09100009-09		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12
1,2-Dibromoethane			Not detected		12
1,2-Dichlorobenzene			Not detected		12
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12
Bromochloromethane			Not detected		12
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12
Chloromethane			Not detected		12
cis-1,2-Dichloroethylene			26		12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			Not detected		12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			17	JB	23
MTBE			Not detected		12
Naphthalene			Not detected		12

YORK

Client Sample ID			S-6		
York Sample ID			09100009-09		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
n-Butylbenzene			Not detected		12
n-Propylbenzene			Not detected		12
o-Xylene			Not detected		12
p- & m-Xylenes			Not detected		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12
Tetrachloroethylene			40		12
Toluene			Not detected		12
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			Not detected		12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			Not detected		12
Total Solids	SM 2540B	%	86.5	---	1.0

Client Sample ID			S-7		
York Sample ID			09100009-10		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		12
1,1,1-Trichloroethane			Not detected		12
1,1,2,2-Tetrachloroethane			Not detected		12
1,1,2-Trichloroethane			Not detected		12
1,1-Dichloroethane			Not detected		12
1,1-Dichloroethylene			Not detected		12
1,1-Dichloropropylene			Not detected		12
1,2,3-Trichlorobenzene			Not detected		12
1,2,3-Trichloropropane			Not detected		12
1,2,4-Trichlorobenzene			Not detected		12
1,2,4-Trimethylbenzene			Not detected		12
1,2-Dibromo-3-chloropropane			Not detected		12
1,2-Dibromoethane			Not detected		12
1,2-Dichlorobenzene			Not detected		12
1,2-Dichloroethane			Not detected		12
1,2-Dichloropropane			Not detected		12
1,3,5-Trimethylbenzene			Not detected		12
1,3-Dichlorobenzene			Not detected		12
1,3-Dichloropropane			Not detected		12
1,4-Dichlorobenzene			Not detected		12
2,2-Dichloropropane			Not detected		12
2-Chlorotoluene			Not detected		12
4-Chlorotoluene			Not detected		12
Benzene			Not detected		12
Bromobenzene			Not detected		12

YORK

Client Sample ID			S-7		
York Sample ID			09100009-10		
Matrix			SOIL		
Parameter	Method	Units	Result	Qualifier	RL
Bromochloromethane			Not detected		12
Bromodichloromethane			Not detected		12
Bromoform			Not detected		12
Bromomethane			Not detected		12
Carbon tetrachloride			Not detected		12
Chlorobenzene			Not detected		12
Chloroethane			Not detected		12
Chloroform			Not detected		12
Chloromethane			Not detected		12
cis-1,2-Dichloroethylene			20		12
cis-1,3-Dichloropropylene			Not detected		12
Dibromochloromethane			Not detected		12
Dibromomethane			Not detected		12
Dichlorodifluoromethane			Not detected		12
Ethylbenzene			8	J	12
Hexachlorobutadiene			Not detected		12
Isopropylbenzene			Not detected		12
Methylene chloride			16	JB	23
MTBE			Not detected		12
Naphthalene			3	JB	12
n-Butylbenzene			Not detected		12
n-Propylbenzene			Not detected		12
o-Xylene			6	J	12
p- & m-Xylenes			21		12
p-Isopropyltoluene			Not detected		12
sec-Butylbenzene			Not detected		12
Styrene			Not detected		12
tert-Butylbenzene			Not detected		12
Tetrachloroethylene			170		12
Toluene			Not detected		12
trans-1,2-Dichloroethylene			Not detected		12
trans-1,3-Dichloropropylene			Not detected		12
Trichloroethylene			10	J	12
Trichlorofluoromethane			Not detected		12
Vinyl chloride			Not detected		12
Total Solids	SM 2540B	%	85.5	---	1.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Report Date: 10/7/2009
Client Project ID: Charlton Cleaners
York Project No.: 09100009

Notes for York Project No. 09100009

1. The "RL" is the REPORTING LIMIT and is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This REPORTING LIMIT is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.
8. Other attachments to this report, including Chain-of-custody documentation and Case narratives are hereby made a part of this report.

Approved By: Robert Q. Bradley
Managing Director

Date: 10/7/2009

YORK

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 09100009

Client Information	Report To:	Invoice To:	Client Project ID	Turn-Around Time	Report Type/Deliverables
Company: LBG, INC.	Company: LBG, INC.	Company: LBG, INC.	CHARLTON CLEANERS	24 hr ___	Summary Results Only ___ QA/QC Summary ___
Address: 110 CORPORATE PARK DR. STE. 112	Address: 110 CORPORATE PARK DR. STE. 112 WHITE PLAINS NY	Address: 110 CORPORATE PARK DR. STE. 112 WHITE PLAINS, NY	Purchase Order No.	48 hr ___	RCP Package ___ ASP B Pkg X
Phone No. 914-694-5711	Phone No. 914-694-5711	Phone No. 914-694-5711		72 hr ___	ASP A Pkg ___ Excel format ___
Contact Person: PAUL WOODELL	Attention: PAUL WOODELL	Attention: PAUL WOODELL		5 Day ___	
E-Mail Address: WOODELL@LBGNY.COM	E-Mail Address: WOODELL@LBGNY.COM	E-Mail Address: WOODELL@LBGNY.COM		Standard X	EDD ___ OTHER ___

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature): [signature]

Name (printed): BRIAN HAWE

Matrix Codes:
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Miscellaneous Parameters			Special Instructions
8260 full (circled)	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color	Field Filtered ☐
624	Site Spec.	STARS	8081Pest	PP13	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols	Lab to Filter ☐
STARS	SPLP or TCLP	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T	
BTEX	Benzene	Acids Only	CT RCP	CT15	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A	
MTBE	Nassau Co.	PAH	App. IX	Total	TPH 418.1	Full App. IX	Sieve Anal.	Ammonia-N	BOD5	
TCL list	Suffolk Co.	TAGM	Site Spec.	Dissolved	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5	
TAGM	Ketones	CT RCP	SPLP or TCLP	SPLP or TCLP	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28	
CT RCP	Oxygenates	TCL list	TCLP Pest	Indiv. Metals	Air STARS	Part 360-	BTU/lb.	Tot. Phos.	COD	
Arom.	TCLP list	TICs	TCLP Herb	Hg, Pb, As, Cd	Air VPH	Part 360-	Aquatic Tox.	Oil&Grease	TSS	
Halog.	524.2	App. IX	Chlordane	Cr, Ni, Be, Fe,	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids	
App. IX	502.2	SPLP or TCLP	608 Pest	Se, Tl, Sb, Cu,	Methane	NYSDEC Sewer	Asbestos	pH	TDS	
8021B list	503.5	TCLP BNA	608 PCB	Na, Mn, Ag, etc	Helium	TAGM	Silica	MBAS	TPH-IR	

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
S-1	9/17/09 1346	S	8260 FULL LIST	
S-2	↓ 1417	↓	↓	
S-3	↓ 1431	↓	↓	
BOTTOM-1	↓ 1440	↓	↓	
BOTTOM OF SUMP	9/18/09 0910	↓	↓	
BOTTOM-2	9/21/09 1324	↓	↓	
S-4	↓ 1327	↓	↓	
S-5	↓ 1329	↓	↓	
S-6	↓ 1330	↓	↓	
S-7	↓ 1332	↓	↓	

Comments

Preservation — Check those Applicable: 4°C ___ Frozen ___ 4°C ___ 4°C ___ HNO_3 4°C ___ 4°C H_2SO_4 ___ 4°C Other ___ 4°C ZnAc ___ H_2SO_4 Ascorbic ___ NaOH Other ___; HCl ___ MeOH ___

Samples Relinquished By	Date/Time	Samples Received By	Date/Time	Temperature on Receipt
[signature]	9/30/09	[signature]	9:30 10:15	3.7 °C
Samples Relinquished By	Date/Time	Samples Received in LAB by [signature]	9/30/09 - 1620	

Attachment 2 - May 9, 2023 Daily Inspection Report

Report No. **Former Charlton Cleaners- NYSDEC Site No. 243019** Date: 5/09/2023

NYSDEC
Division of Environmental Remediation

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYSDEC Contract No.

Superintendent:

NYSDEC PM: Meghan Wedwid

Consultant PM: Jessica Beattie

Consultant Site Inspectors:

Thomas Palen and Jordan Ober

Site Location: Charlton Cleaners 1465 Forest Ave. Staten Island, NY

Weather Conditions

General Description	Clear	AM	Clear	PM
Temperature	67 degrees	AM	72 degrees	PM
Wind	3 MPH SE	AM	5 MPH S	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No x	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No x	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No x	NA

Health & Safety Comments

- Discussed slip trip and fall hazards as well as needing to bring battery powered flashlights to provide light in case of poor lighting in the basement

Summary of Work Performed	Arrived at site:	11:00	Departed Site:	13:00

- CDM performed a tailgate H&S talk and went over the reports of basement system from 2009
- CDM inspected the sump pits' GW and SVE system
- Found that the system was still in operation with concerns of the following:
  Extracted ground water was no longer running through the activated carbon and was being discharged directly to the sewer system.
  Carbon vessels for both air and liquid may not have been changed out since at least 2009
  The large north sump pit in the equipment room and the smaller second north sump pit in the basement area are no longer sealed with the basement floor. The sump lids have been removed.
  In the second north sump pit, the SVE piping had been cut so it's no longer pulling air from the sump but instead is pulling ambient air from the room.
  Someone installed a drainage system for a leak in the sprinkler system that was draining into the second north sump pit.
- Met and walked the system with John Mercieca from JPM Maintenance and he confirmed that the top statements to the best of his knowledge are true.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	Yes	No	NA x
Were there any vehicles which were not tarped?	Yes	No	NA x
Were there any vehicles which were not decontaminated prior to exiting the work site?	Yes	No	NA x

Personnel and Equipment

Individual	Company	Trade	Total Hours
Thomas Palen	CDM Smith	Engineer	2
Jordan Ober	CDM Smith	Engineer	2
John Mercieca	JPM	Maintenance	1

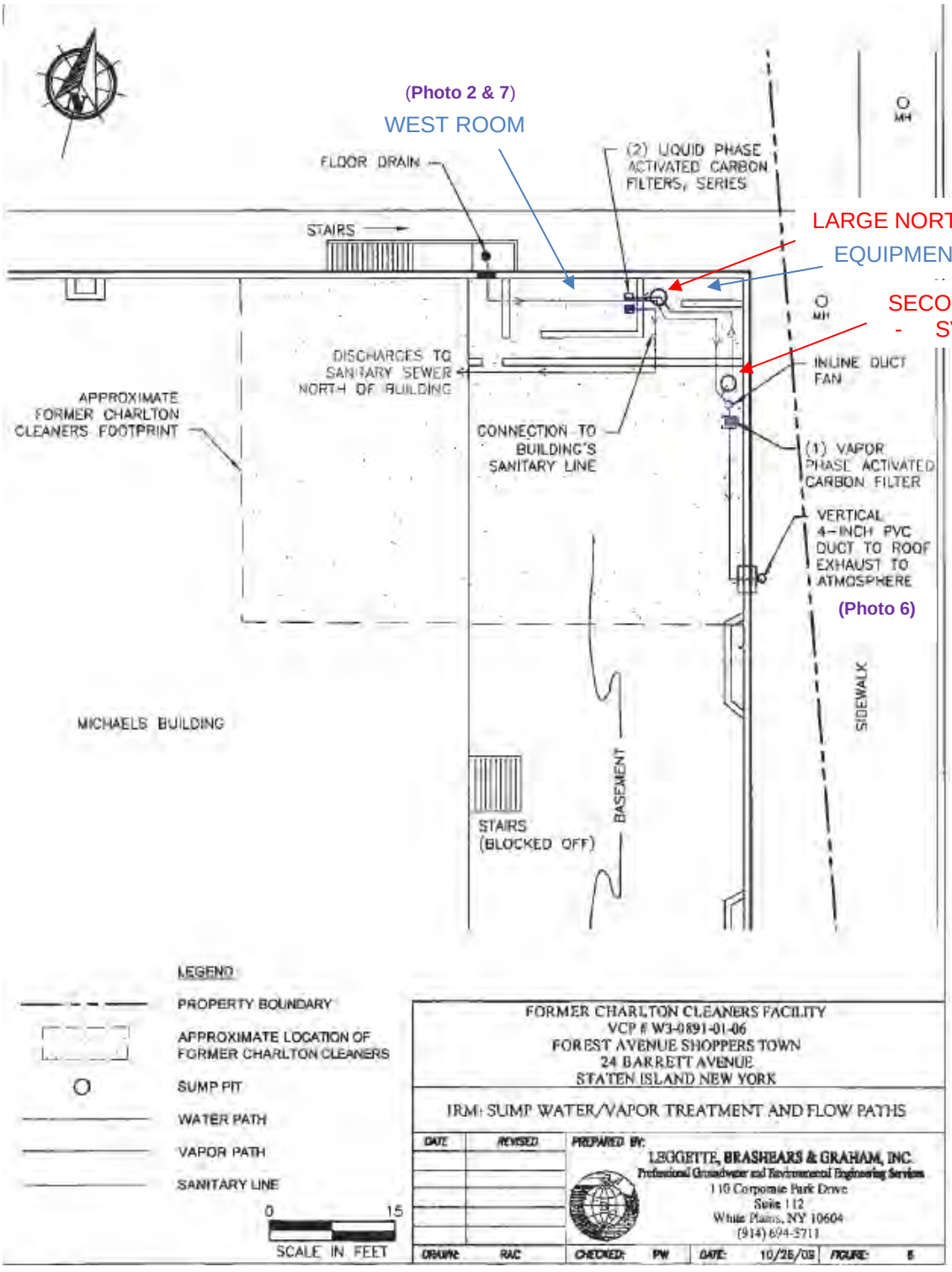
Equipment Description	Contractor/Vendor	Quantity	Used

Material Description	Imported/Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

Visitors to Site: None

Name	Representing	Entered Exclusion/CRZ Zone

		Yes	**No**
Site Representatives			
Name	**Representing**		
Thomas Palen and Jordan Ober	**CDM Smith**		
Project Schedule Comments			
• CDM to sample Air and GW at the site in the coming weeks			
Issues Pending			
Sample to see if there is an effect of the unsealed sump pits on the ambient air			
Interaction with Public, Property Owners, Media, etc.			
N/A			


(Photo 2 & 7)
WEST ROOM
FLOOR DRAIN
(2) LIQUID PHASE ACTIVATED CARBON FILTERS, SERIES
STAIRS
LARGE NORTH SUMP PIT – lid removed.
EQUIPMENT ROOM (Photo 4)
SECOND (smaller) NORTH SUMP PIT - SVE piping cut; lid removed.
(Photo 1 &3)
DISCHARGES TO SANITARY SEWER NORTH OF BUILDING
INLINE DUCT FAN
APPROXIMATE FORMER CHARLTON CLEANERS FOOTPRINT
CONNECTION TO BUILDING'S SANITARY LINE
(1) VAPOR PHASE ACTIVATED CARBON FILTER
VERTICAL 4-INCH PVC DUCT TO ROOF EXHAUST TO ATMOSPHERE
(Photo 6)
MICHAELS BUILDING
SIDEWALK
BASEMENT
STAIRS (BLOCKED OFF)
LEGEND
PROPERTY BOUNDARY
APPROXIMATE LOCATION OF FORMER CHARLTON CLEANERS
SUMP PIT
WATER PATH
VAPOR PATH
SANITARY LINE
0
15
SCALE IN FEET
FORMER CHARLTON CLEANERS FACILITY
VCP # W3-0891-01-06
FOREST AVENUE SHOPPERS TOWN
24 BARRETT AVENUE
STATEN ISLAND NEW YORK
IRM: SUMP WATER/VAPOR TREATMENT AND FLOW PATHS
DATE
REVISED
PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Groundwater and Environmental Engineering Services
110 Corporate Park Drive
Suite 112
White Plains, NY 10604
(914) 694-5711
DRAWN: RAC
CHECKED: PW
DATE: 10/26/09
FIGURE: 5

Site Photographs (Descriptions Below)

Photo 1 - Second north sump pit in basement: VPGAC vessel next to the cut SVE piping that is now no longer pulling air directly from the sump.

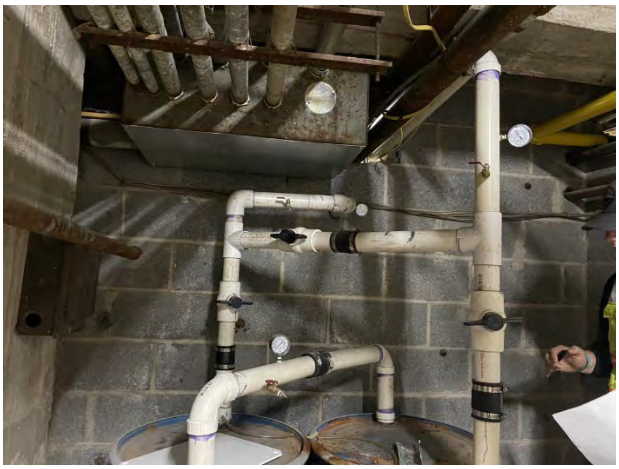


Photo 2: West Room: Piping from the large north sump into the LPGAC vessels have been valved closed. Therefore, water extracted from the sump bypasses the LPGAC and flows untreated into the sewer system

Photo 3: Second north sump pit in basement: sump is unsealed allowing ventilation of the sump directly into the basement. SVE piping cut above sump.

Photo 4: Large north sump pit in Equipment Room: Cover is off of the main GW extraction point in the sump, so the sump is not sealed.

	
Photo 5: Temporary drain that was installed under the sprinkler system that drains into the second north sump pit	Photo 6: SVE exhaust piping to roof.

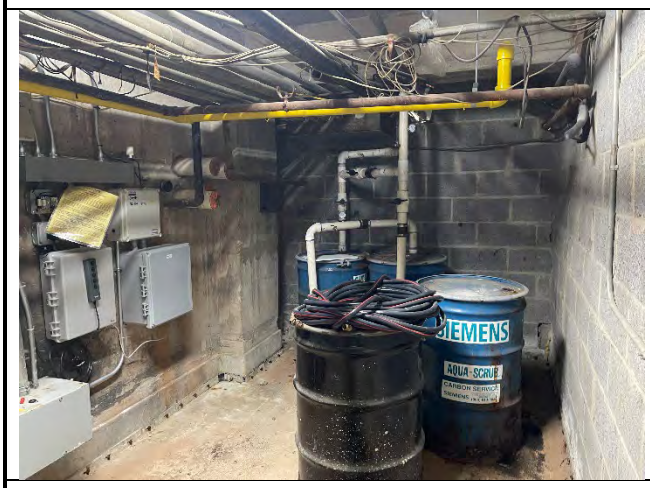



Photo 7: LPGAC vessels in the West Room	

Comments	
The GW extraction system operates under a float system that John Mercieca says is still in operation. He does not know exactly how long the system hasn't been running through the LPGAC but gave an estimate of at least 5 years. The SVE system is in operation and the piping out to the atmosphere looks to be in good condition. John did not know when the secondary sump pit's seal was taken off or when the air piping was cut.	
Site Inspector(s): Thomas Palen	**Date: 5/12/2023**

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☒
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☐

Comments:

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is the site supplied with green power and is it properly installed and/or maintained?	Yes ☐	No ☐	N/A☒
Is the site employing 2007 or newer or retrofitted diesel trucks?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is equipment properly maintained and operated by trained personnel?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points?	AM ☐	PM ☐	N/A☒
Are products and materials appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒

Are resiliency features included in the design or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Are appropriate metrics documented for inclusion on Form A, Summary of Green Remediation Metrics, by the CONTRACTOR?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments:			