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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

March 26, 2018

David Chiusano
New York State Department of Environmental Conservation
Div. of Environmental Remediation
625 Broadway, 12th floor
Albany, NY 12233-7015

RE: Site No. 224015, Empire Electric, 5200 First Avenue, Brooklyn, NY – Investigation Summary Report

Dear Mr. Chiusano:

This letter summarizes the investigation activities conducted by Environmental Assessment & Remediations (EAR) at the above referenced site. The investigation activities were conducted in July through October 2017 in response to directives provided in the New York State Department of Environmental Conservation (NYSDEC) Standby Contractor Authorization Form dated 6/2/17 (Callout ID: 129841). A site location map is provided as Figure 1.

Prior to the investigation activities conducted by EAR, site remedial activities conducted by project engineers EA Engineering, Science and Technology, Inc (EA) included demolition of the former Empire Electric building and subsequent excavation which exposed a subfloor located several feet below street level. The building footprint and site features are illustrated in Figure 2.

Soil Borings / Temporary Well Installations

A conceptualized 3x3 meter grid pattern of thirty (30) temporary borings in the area of interest was proposed by project engineers, EA (Syracuse, NY), and approved by NYSDEC in effort to delineate extent of impact. Proposed locations were measured out by EAR on the first day of field activities and sequentially labeled as SB-1 through SB-30. Select locations proved inaccessible due to the presence of the concrete slabs/debris and granite blocks which constituted part of the sub flooring; a total of 13 locations were removed from the sampling plan (SB-1, SB-10, SB-20, SB-21 through SB-30). Four additional locations (SB-31 through SB-34) were added to the sampling plan by EA's onsite representative. As such, a total of 17 temporary boring locations were accessible for sample collection.

Temporary borings were advanced over a five-day period (July 6-10, 2017) using a stainless-steel hand auger. At 13 locations, soil samples were collected from three depth intervals: 0-1, 1-2, and 2-3 feet below grade surface (BGS). At locations SB-3, SB-4, and SB-6, the auger could not be advanced beyond 2 feet BGS. As directed by EA's onsite representative, SB-15 and SB-18 were advanced to approximately 6.5 feet BGS; with an additional soil sample collected at 5.5-6.5 ft BGS at SB-15. All samples were logged for lithology and screened with a photo-ionization detector (PID) for total volatile

organic compounds (VOCs) via the headspace method. All downhole tooling was decontaminated between sample intervals via Alconox scrub, followed by hexane wipe-down, and de-ionized water rinse. Decontamination rinsate was co-mingled with another project contractor's (PAL Environmental Services (Long Island City, NY)) aqueous wastes. Following sample collection, all boreholes were backfilled to grade with native soil.

A total of 65 soil samples (including 7 blind duplicates) and 3 aqueous samples (rinse blanks) were submitted to a NYSDEC standby laboratory (Test America, Inc.) for analysis of polychlorinated biphenyls (PCBs) via EPA Method 8082. Samples were submitted for expedited (72-hr) turn around with Category B deliverables requested. Samples were picked up by the laboratory-provided courier service each day for transport to the lab.

On July 26, additional soil samples were collected from 3 locations (SB-13, SB-15 and SB-19) for VOC analysis. Per directives from the onsite EA representative, borings at these locations were to be advanced to 4-feet BGS. At SB-13 and SB-15, soil samples were collected from 0-1 feet BGS, 1-2 feet BGS, 2-3 feet BGS, and 3-4 feet BGS. At SB-19, boring could not be advanced beyond 3.5 feet BGS, as such the 3-4 feet sampling interval was excluded.

Temporary borings were advanced using a stainless-steel hand auger. All samples were logged for lithology and screened with a PID for VOCs via the headspace method. All downhole tooling was decontaminated between sample intervals via Alconox scrub and de-ionized water rinse. Decontamination rinsate was co-mingled with PAL Environmental Services' aqueous wastes.

At each boring location, the interval exhibiting the highest PID reading was retained for lab analysis. EAR submitted a total of 4 soil samples (including one blind duplicate). All soil samples were preserved via EPA 5035 compliant means and submitted to Test America, Inc. for analysis of VOC's via EPA Method 8260. Samples were submitted for an expedited (72-hr) turn around with Category B deliverables requested. Samples were picked up by the laboratory-provided courier service each day for transport to the lab.

Analytical results from the above soil sampling activities are summarized in Tables 1-2. Boring logs are provided as Appendix A.

At locations SB-13, SB-15, and SB-18, EAR installed temporary monitoring wells each consisting of 2-feet of 1-inch diameter Schedule 40 PCV screen (20 slot) and 1-inch diameter Schedule 40 PVC riser extending to approximately 2-feet above grade surface. SB-13_GW was screened from 1-2 feet BGS. After observing poor groundwater recharge at this location, SB-15_GW was screened from 4-6 feet BGS and SB-18_GW was screened from 3-5 feet BGS. At each location, #2 well gravel was installed to the top of the screened interval followed by a hydrated bentonite seal from top of the screened interval to grade surface. Well risers were extended to approximately 2-feet above grade surface and capped with PVC dome caps.

On September 27-28, 2017, EAR was onsite to conduct additional soil sampling and installation of temporary monitoring wells within the building footprint using a track mounted direct-push rig. Drilling services were provided by Aarco Environmental Services (Lindenhurst, NY). Soil samples were collected continuously in 4-foot intervals from grade to the end of the boring. All samples were logged for lithology and screened with a PID for total volatile organic compounds (VOCs) via the headspace method. All downhole tooling was decontaminated between sample intervals via Alconox scrub,

followed by hexane wipe-down, and de-ionized water rinse. Decontamination rinsate was co-mingled with PAL Environmental Services' aqueous wastes.

A total of four boring pairs (SB-35 through SB-38) were conceptualized; with a shallow boring installed to approximately 10-feet BGS and a deep boring to approximately 23-feet BGS at each of the proposed four locations. Boring locations are shown in Figure 3.

Three attempts were made to install borings at location SB-35, however refusal was encountered at approximately 7-feet BGS during each attempt. Per EA and NYSDEC, no further attempts were made at this location.

Two attempts were advanced at location SB-36, with soil samples collected from grade to approximately 8.5-feet BGS before refusal was encountered. As directed by NYSDEC, only the 6-8 foot sample interval was retained for laboratory analysis. A temporary monitoring well (SB-36D) was installed and constructed of a 2-inch diameter, 5-foot pre-packed screen set at 3-8 feet BGS, with 4-feet of 2-inch diameter, schedule 40 PVC riser extending to 1-foot above grade. No. 0 gravel pack was installed to 2.5-feet below grade, and a bentonite seal was installed from 2.5-feet below grade to surface.

At SB-37, soil samples were collected from grade to 24-ft BGS. Samples from each depth interval were retained for laboratory analysis. A temporary well (SB-37D) was installed and constructed of a 2-inch diameter schedule 40 PVC pre-packed screen (5-foot) section set at 19-24 feet BGS and a 4-feet section of 2-inch diameter, schedule 40 PVC riser extending to 2-feet above grade. No. 0 gravel pack was installed to 17-feet BGS, and a bentonite seal was installed from 17-feet BGS to surface. A complementary, shallow well (SB-37S) was installed adjacent to SB-37D to a total depth of 11-feet BGS. SB-37S was constructed of a 2-inch diameter, 5-foot pre-packed screen, with 4-feet of 2-inch diameter, schedule 40 PVC riser extending to 2.5-feet above grade. No. 0 gravel pack was installed to 4-feet BGS, and a bentonite seal was installed from 4-feet BGS to surface.

At location SB-38, soil samples were collected from grade to 28-ft BGS. Samples from discrete sampling intervals from grade to 24-ft BGS were retained for laboratory analysis. During advancement of larger diameter rods for installation of the temporary monitoring well, refusal was encountered at approximately 11.5-feet BGS. Concrete was observed in soil samples collected at the same interval. Per the onsite EA representative, the temporary monitoring well was set at 11.5-feet BGS and was constructed of a 2-inch diameter, 5-foot pre-packed screen, with 4-feet of 2-inch diameter, schedule 40 PVC riser extending to 2.5-feet above grade. No. 0 gravel pack was installed to 4.5-feet BGS, and a bentonite seal was installed from 4.5-feet BGS to surface.

A total of 13 soil samples and 1 rinse blank were collected and submitted to Test America, Inc. of analysis of PCBs via EPA Method 8082. Of those soil samples, a total of 7[1] were also analyzed for VOC's via EPA Method 8260C[2], SVOC's via 8270, pesticides via 8081, TAL metals via 6020/7470, and total cyanide via 9012. All soil samples submitted for analysis of VOCs were preserved via EPA 5035 compliant means. Samples were submitted for an expedited (72-hr) turn around with Category B deliverables requested. Samples were picked up by the laboratory-provided courier service each day for transport to the lab.

[1] Samples from depth intervals corresponding to the water table interface, anticipated depth of upcoming focused soil excavation, and boring terminus.

[2] All soil samples for VOC analysis were preserved via EPA 5035 compliant means

Soil analytical results are summarized in Tables 3-7. Site maps with posted analytical data for soil borings conducted July – September are provided as Figures 3-5[3]. Boring logs are provided as Appendix A.

Groundwater Sampling

Seven (7) temporary wells were installed on July-September 2017 with screened intervals summarized as follows:

Location	Screen Interval (ft BGS)
SB-13_GW	1-2
SB-15_GW	4-6
SB-18_GW	3-5
SB-36	3.5-5.5
SB-37S	6-11
SB-37D	19-24
SB-38	6.5-11.5

Groundwater samples were collected from temporary wells SB-13_GW, SB-15_GW, and SB-18_GW on July 7-10 utilizing peristaltic pumps and HDPE tubing. A new length of HDPE tubing was utilized at each well. Prior to sample collection, depth-to-water and total well depths were gauged and recorded. Due to very poor recharge at the three temporary monitoring wells, water quality parameters could not be monitored and samples were collected as soon as the wells yielded sufficient sample volume.

Groundwater samples collected for lab analysis were placed into the appropriate sample containers provided by the laboratory and immediately placed in a cooler with ice to maintain a temperature of 4 degrees Celsius. A total of 3 groundwater samples were submitted to Test America, Inc. for analysis of PCBs via EPA Method 8082.

Samples were collected from the SB-13_GW, SB-15_GW, and SB-18_GW again on July 26 and August 9 utilizing the above referenced methodology. Due to very poor recharge, water quality parameters could not be monitored and samples were collected following purges of one well volume. Groundwater samples collected for lab analysis were placed into the appropriate sample containers provided by the laboratory and immediately placed in a cooler with ice to maintain a temperature of 4 degrees Celsius. A total of 7 groundwater samples (including 1 blind duplicate) were submitted to Test America, Inc. for analysis of VOC's via EPA Method 8260C, SVOC's via 8270, pesticides via 8081, PCBs via 8082 (dissolved[4]), TAL metals via 6020/7470 (total and dissolved), total cyanide via 9012, and PFA's via modified 537.

Analytical results from the above groundwater samples are summarized in Tables 8-13.

[3] Post maps are not provided for pesticides as no analytes were detected under EPA Method 8081. Post maps are not provided for TAL Metals as no parameters exceeded 6 NYCRR 375-6 soil cleanup objectives for commercial, industrial, or unrestricted use.

[4] Groundwater samples for dissolved PCB and metals analyses were collected on August 9, 2017.

The wells installed September 27-28 (SB-36, SB-37S, SB-37D, and SB-38) were developed on September 29 via pumping using a submersible pump. All wells exhibited poor recharge at flow rates from 0.1 to 0.5 gallons per minute and had to be rested periodically to allow for recharge. Each well was purged of at least 5 well volumes with pumping continuing until turbidity dropped below 50 nephelometric turbidity units (NTUs) or stabilized with little apparent visually observed improvement.

Development purge volumes and turbidity readings are summarized as follows:

Location	Purge (cumulative gallons)	NTUs at Completion	Observations
SB-36	2.75	808	Well repeatedly stripped during pumping. Purge water transitioned from dark brown to light brown after 2 gallons then stabilized.
SB-37S	10.0	17.2	Well repeatedly stripped during pumping. Purge water transitioned from dark red- brown to clear after 8 gallons.
SB-37D	21.0	47.7	Well repeatedly stripped during pumping. Purge water transitioned from dark red- brown to clear after 16 gallons.
SB-38	9.0	>1,000	Well repeatedly stripped during pumping. Purge water transitioned from dark brown to light brown after 7 gallons then stabilized.

Groundwater samples were collected from SB-36, SB-37S, SB-37D, and SB-38 on October 3, 2017, utilizing peristaltic pumps and HDPE tubing. A new length of HDPE tubing was utilized at each well. Prior to sample collection, depth-to-water and total well depths were gauged to the nearest 0.01 foot and recorded. A water quality meter was used to monitor water quality parameters. Each monitoring well was purged of at least one standing well volume then screened for pH, temperature, and conductivity until stabilization was reached. Dissolved oxygen concentrations, and oxidation reduction potential (ORP) were recorded as well. Downhole equipment such as water level meters were decontaminated between each well location. Decontamination consisted of gross contaminant removal, Liquinox wash, and distilled water rinse. Decontamination rinsate was co-mingled with PAL Environmental Services' aqueous wastes.

EAR collected a total of 4 aqueous samples which were submitted to Test America, Inc. for analysis of VOCs via EPA Method 8260C, SVOCs via 8270, pesticides via 8081, PCBs via 8082, TAL metals via 6020/7470 (total and dissolved), and total cyanide via 9012.

Analytical results are summarized in Tables 14-18. Field screening results are summarized in Table 19. Site maps with posted analytical data for groundwater samples collected at temporary wells are provided as Figures 6-10

Concrete Sampling

On July 21 and July 25, 2017, EAR collected concrete samples from a total of 30 locations predetermined by EA. At each location, concrete samples were collected from 0-3 inches BGS and 3-6 inches BGS.

Samples were collected using a hammer drill fitted with a 1.5-inch diameter masonry bit. The drill was advanced through a 1.5-inch diameter hole in a stainless-steel tray to the desired sample depth. Concrete drill cuttings, collected in the steel tray, were screened with a PID (via headspace method) and placed in appropriate laboratory-provided containers. All sampling tools which contacted concrete were

decontaminated between samples via a hexane wipe followed by a wash with anionic detergent (Liquinox) and a distilled water rinse.

A total of 66 concrete samples (including 6 blind duplicates) and 2 rinsate blanks were submitted to a NYSDEC standby laboratory (Test America, Inc.) for analysis of polychlorinated biphenyls (PCBs) via EPA Method 8082. Samples from locations CB-9 (3-6 inches BGS) and SB-22 (0-3 inches BGS) were also submitted for analysis of VOCs via EPA Method 8260 due to elevated PID readings. PCB analysis of samples from the 3-6 inch BGS intervals was initially placed on hold with activation pending review of analytical results from the 0-3 inch BGS samples.

On August 9 and September 21, 2017, EAR collected additional samples at locations CB-10 (CB-10R), and CB-20, CB-22, CB-23, CB-24, CB-29, CB-30 (CB-20PS, CB-22PS, etc…). Prior to re-sampling, these locations had been scarified by another contractor. A concrete sample was collected again at CB-30 (CB-30PS2) on October 3, 2017, following additional scarification activities. All post-scarification samples were collected from 0-3 inches below post-scarification grade using the above described methodology. A total of 9 concrete samples (including 1 blind duplicate) and 2 rinsate blanks were submitted to Test America, Inc. for analysis of PCBs via EPA Method 8082.

Analytical results are summarized in Tables 20-21. Site maps with posted analytical data for concrete samples are provided as Figures 11-12.

Offsite Groundwater Sampling and Monitoring Well Installation

On July 24 & 27, 2017, EAR collected groundwater samples from seven (7) pre-existing site monitoring wells. Groundwater samples were not collected at MW-13 as this well could not be located. Groundwater samples were not collected at MW-10 as the riser could not be located and was believed to have been damaged. Groundwater samples were not collected at MW-5 as neither water level meter or sample tubing could be advanced beyond 7 feet BGS.

Groundwater samples were collected utilizing peristaltic pumps and HDPE tubing. A new length of HDPE tubing was utilized at each well. Prior to sample collection, depth-to-water and total well depths were gauged to the nearest 0.01 foot and recorded. A water quality meter (YSI 556 or equivalent) was used to monitor water quality parameters. Each monitoring well was purged of at least one standing well volume then screened for pH, temperature, and conductivity until stabilization was reached. Dissolved oxygen concentrations, and ORP were recorded as well.

Groundwater samples collected for lab analysis were placed into the appropriate sample containers provided by the laboratory and immediately placed in a cooler with ice to maintain a temperature of 4 degrees Celsius. A total of 9 water samples (including 1 blind duplicate and 1 rinse blank) were submitted to a NYSDEC standby contracted laboratory (Test America, Inc.) for analysis of VOC's via EPA Method 8260C, SVOC's via 8270, pesticides via 8081, PCBs via 8082, TAL metals via 6020/7470, total cyanide via 9012, and PFA's via modified 537.

Analytical results are summarized in Tables 22-27 and are compared to the TOGS 1.1.1 Class GA water quality standards and guidance values[5]. Field screening results are summarized in Table 28. Depth-to-water readings, as gauged prior to sampling, are summarized in Table 29.

[5] NYSDEC Division of Water Technical & Operational Guidance Series 1.1.1 – Ambient Water Quality Standards and Guidance Values, Class GA (groundwater)

Following directives from NYSDEC to install replacement wells for MW-10, MW-13, and MW-05, EAR and its subcontractor (Aarco Environmental Services) mobilized to the site on September 20, 2017. During rig set-up and clearing activities, the casings for both MW-10 and MW-13 were located. As directed by an onsite NYSDEC representative, Aarco installed new manholes (8-inch diameter, steel, bolt-down manholes) and concrete pads (12"x12") at both locations and redeveloped the wells. As well development activities were not scheduled for 9/20, no turbidimeter was available. NYSDEC directed EAR/Aarco to develop the wells, to the extent feasible, until purge waters were visibly clear. MW-10 and MW-13 were developed via pumping using the inertia method. MW-13 was purged of approximately 20 gallons (12.5 well volumes). MW-10 was purged of approximately 10 gallons (5.5 well volumes). Purge water generated was co-mingled with PAL Environmental Services' aqueous wastes.

On September 25, 2017, EAR and Aarco installed a replacement monitoring well (MW-05R) in the vicinity of MW-05 using hollow-stem auger drilling methods. During advancement of the borehole, soil samples were collected continuously from grade surface to 25-feet BGS using a split-spoon sampler (2-foot intervals). The samples were inspected for lithological changes and physical evidence of contamination. Soil samples collected from the water table interface (11-13 feet BGS, 149.3 ppm) and at the interval exhibiting the highest PID reading (19-21 feet BGS, 120.4 ppm) were retained for laboratory analysis.

MW-05R is constructed of 14-feet of 2-inch diameter, 10-slot, schedule 40 PVC screen installed from 14 feet to 24 feet BGS, and 14-feet of 2-inch diameter, schedule 40 PVC riser. Gravel pack was installed from 24-feet to 12-feet BGS, with a bentonite seal from 12-feet to 9-feet BGS. Bentonite grout was installed from 9-feet BGS to near grade. The surface was finished with an 8-inch diameter, steel, bolt-down manhole set in a 24-inch by 24-inch concrete pad. The well casing was secured with a locking J-plug.

MW-05R was developed via pumping using a submersible pump. The well was pumped of at least 5 well volumes and two consecutive samples yielded turbidity readings less than 50 nephelometric turbidity units (NTU). Generated purge water (~40 gallons) was comingled with PAL's aqueous wastes.

Soil samples collected during the MW-05R installation activities and retained for lab analysis were submitted to Test America, Inc. for analysis of VOC's via EPA Method 8260C[6], SVOC's via 8270, pesticides via 8081, PCBs via 8082, TAL metals via 6020/7470, and total cyanide via 9012.

Analytical results for soil samples collected during MW-05R installation activities are summarized in Tables 30-34. A drill log for MW-05R is included in Appendix A.

Groundwater samples were collected from MW-05R, MW-10, and MW-13 on October 2, 2017. Groundwater samples were collected utilizing peristaltic pumps and HDPE tubing. A new length of HDPE tubing was utilized at each well. Prior to sample collection, depth-to-water and total well depths were gauged to the nearest 0.01 foot and recorded. A water quality meter (YSI 556 or equivalent) was used to monitor water quality parameters. Each monitoring well was purged of at least one standing well volume then screened for pH, temperature, and conductivity until stabilization was reached. Dissolved oxygen concentrations, and oxidation reduction potential (ORP) were recorded as well.

[6] All soil samples for VOC analysis were preserved via EPA 5035 compliant means

Groundwater samples collected for lab analysis were placed into the appropriate sample containers provided by the laboratory and immediately placed in a cooler with ice to maintain a temperature of 4 degrees Celsius. A total of 4 water samples (including 1 blind duplicate) were submitted to an NYSDEC standby contracted laboratory (Test America, Inc.) for analysis of VOC's via EPA Method 8260C, SVOC's via 8270, pesticides via 8081, PCBs via 8082, TAL metals via 6020/7470, and total cyanide via 9012.

Groundwater analytical is summarized in Tables 22-27. Field screening results are summarized in Table 28. Site maps with posted analytical data for offsite groundwater samples are provided as Figures 13-15

Survey

Newly installed, modified, and select pre-existing site monitoring wells were surveyed by an EAR survey team on September 27 and October 2, 2017. The survey was conducted in order to provide northing and easting coordinates and riser elevation data to the nearest 0.01 foot. As requested by EA, the EAR survey team also surveyed select curbline locations and other permanent features along 52nd Street to the northwest (hydraulic downgradient) of the site.

Figure 16 illustrates the locations of surveyed features. Coordinate and elevation[7] data is summarized in Tables 35-36.

Documentation & Quality Control

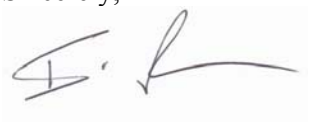
Field activities detailed herein were documented in daily field reports. The daily field reports, which contain field notes and copies of chain of custody forms, are provided as Appendix B.

A summary of analytical results for quality assurance/quality control (QAQC) samples is provided as Appendix C.

All NYSDEC ASP Category B deliverables are under review for completeness and compliance. Data usability summary reports (DUSR) will be generated and submitted to NYSDEC under separate cover along with the laboratory analytical reports.

Should you have any questions regarding the activities or data detailed in this report, please feel free to contact me at 631.241.8741.

Sincerely,



Ian Hofmann
Project Manager

[7] Elevation datum is based on USGS National Map land elevation at initial survey station.

Cc:
Conan, D. (EA)
Conden, R. (EA)
Lawrence, J. (EAR)

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Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, July 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	Depth (ft BGS)	Date Collected	Time Collected	Moisture (%)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Polybrominated biphenyls (total)
SB-2	0-1	7/6/2017	9:53 AM	12.1	<15000	<15000	<15000	<15000	<15000	<15000	160,000	<15000	<15000	160,000
	1-2	7/6/2017	9:55 AM	16.2	<160	<160	<160	<160	<160	<160	2,000	<160	<160	2,000
	2-3	7/6/2017	9:59 AM	21.7	<850	<850	<850	<850	<850	<850	9,100	<850	<850	9,100
SB-3	0-1	7/6/2017	10:03 AM	18.9	<8200	<8200	<8200	<8200	<8200	<8200	95,000	<8200	<8200	95,000
SB-4	0-1	7/6/2017	10:10 AM	8.9	<3700	<3700	<3700	<3700	<3700	<3700	47,000	<3700	<3700	47,000
SB-5	0-1	7/6/2017	10:16 AM	10.9	<750	<750	<750	<750	<750	<750	11,000	<750	<750	11,000
	1-2	7/6/2017	10:28 AM	19.5	<83	<83	<83	<83	<83	<83	960	<83	<83	960
	2-3	7/6/2017	10:32 AM	26.4	<46000	<46000	<46000	<46000	<46000	<46000	400,000	<46000	<46000	400,000
SB-6	0-1	7/6/2017	10:38 AM	7.9	<72	<72	<72	<72	<72	<72	950	<72	<72	950
SB-7	0-1	7/6/2017	10:50 AM	6.1	<3600	<3600	<3600	<3600	<3600	<3600	31,000	<3600	<3600	31,000
	1-2	7/6/2017	10:55 AM	9	<370	<370	<370	<370	<370	<370	2,900	<370	<370	2,900
	2-3	7/6/2017	11:00 AM	16.2	<160	<160	<160	<160	<160	<160	2,700	<160	<160	2,700
SB-8	0-1	7/6/2017	11:03 AM	9.7	<15000	<15000	<15000	<15000	<15000	<15000	170,000	<15000	<15000	170,000
	1-2	7/6/2017	11:05 AM	7.4	<72	<72	<72	<72	<72	<72	590	<72	<72	590
	2-3	7/6/2017	11:08 AM	12.8	<77	<77	<77	<77	<77	<77	340	<77	<77	340
SB-9	0-1	7/6/2017	11:45 AM	7.6	<720	<720	<720	<720	<720	<720	10,000	<720	<720	10,000
	1-2	7/6/2017	11:48 AM	6.1	<71	<71	<71	<71	<71	<71	1,500	<71	<71	1,500
	2-3	7/6/2017	11:51 AM	9.9	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
SB-11	0-1	7/6/2017	11:54 AM	6.4	<3600	<3600	<3600	<3600	<3600	<3600	78,000	<3600	<3600	78,000
	1-2	7/6/2017	11:55 AM	6.5	<72	<72	<72	<72	<72	<72	1,600	<72	<72	1,600
	2-3	7/6/2017	11:57 AM	6.9	<720	<720	<720	<720	<720	<720	6,600	<720	<720	6,600
SB-12	0-1	7/6/2017	12:01 PM	17.2	<20000	<20000	<20000	<20000	<20000	<20000	340,000	<20000	<20000	340,000
	1-2	7/6/2017	12:03 PM	14.2	<7800	<7800	<7800	<7800	<7800	<7800	68,000	<7800	<7800	66,000
	2-3	7/6/2017	12:05 PM	22.1	<8600	<8600	<8600	<8600	<8600	<8600	76,000	<8600	<8600	76,000
SB-13	0-1	7/6/2017	12:09 PM	8.1	<15000	<15000	<15000	<15000	<15000	<15000	190,000	<15000	<15000	190,000
	1-2	7/6/2017	12:11 PM	15.8	<200000	<200000	<200000	<200000	<200000	<200000	2,000,000	<200000	<200000	2,000,000
	2-3	7/6/2017	12:13 PM	14.7	<16000	<16000	<16000	<16000	<16000	<16000	180,000	<16000	<16000	180,000
SB-14	0-1	7/10/2017	8:25 AM	12.5	<150000	<150000	<150000	<150000	<150000	<150000	1,800,000	<150000	<150000	1,800,000
	1-2	7/10/2017	8:31 AM	8.8	<15000	<15000	<15000	<15000	<15000	<15000	99,000	<15000	<15000	99,000
	2-3	7/10/2017	8:34 AM	14.1	<160000	<160000	<160000	<160000	<160000	<160000	3,500,000	<160000	<160000	3,500,000
SB-15	0-1	7/7/2017	9:10 AM	24.1	<880000	<880000	<880000	<880000	<880000	<880000	11,000,000	<880000	<880000	11,000,000
	1-2	7/7/2017	9:18 AM	15.2	<790000	<790000	<790000	<790000	<790000	<790000	12,000,000	<790000	<790000	12,000,000
	2-3	7/7/2017	9:28 AM	17	<810000	<810000	<810000	<810000	<810000	<810000	11,000,000	<810000	<810000	11,000,000
	5.5-6.5	7/7/2017	9:28 AM	20.2	<8400	<8400	<8400	<8400	<8400	<8400	190,000	<8400	<8400	190,000
SB-16	0-1	7/10/2017	8:48 AM	22.5	<170000	<170000	<170000	<170000	<170000	<170000	3,300,000	<170000	<170000	3,300,000
	1-2	7/10/2017	8:51 AM	20	<42000	<42000	<42000	<42000	<42000	<42000	560,000	<42000	<42000	560,000
	2-3	7/10/2017	8:54 AM	16.6	<40000	<40000	<40000	<40000	<40000	<40000	820,000	<40000	<40000	820,000

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, July 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	Depth (ft BGS)	Date Collected	Time Collected	Moisture (%)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Polybrominated biphenyls (total)
SB-17	0-1	7/10/2017	8:37 AM	9.3	<74000	<74000	<74000	<74000	<74000	<74000	1,100,000	<74000	<74000	1,100,000
	1-2	7/10/2017	8:40 AM	10.7	<75000	<75000	<75000	<75000	<75000	<75000	890,000	<75000	<75000	890,000
	2-3	7/10/2017	8:45 AM	8.8	<7300	<7300	<7300	<7300	<7300	<7300	110,000	<7300	<7300	110,000
SB-18	0-1	7/7/2017	9:58 AM	13.8	<16000	<16000	<16000	<16000	<16000	<16000	180,000	<16000	<16000	180,000
	1-2	7/7/2017	10:00 AM	9	<1800	<1800	<1800	<1800	<1800	<1800	22,000	<1800	<1800	22,000
	2-3	7/7/2017	10:10 AM	13	<77	<77	<77	<77	<77	<77	750	<77	<77	750
SB-19	0-1	7/10/2017	9:12 AM	20.3	<420	<420	<420	<420	<420	<420	3,800	<420	<420	3,800
	1-2	7/10/2017	9:15 AM	9.6	<74	<74	<74	<74	<74	<74	1,100	<74	<74	1,100
	2-3	7/10/2017	9:17 AM	11.8	<150	<150	<150	<150	<150	<150	1,800	<150	<150	1,800
SB-31	0-1	7/10/2017	9:22 AM	22.5	<4300	<4300	<4300	<4300	<4300	<4300	52,000	<4300	<4300	52,000
	1-2	7/10/2017	9:24 AM	13	<3800	<3800	<3800	<3800	<3800	<3800	35,000	<3800	<3800	35,000
	2-3	7/10/2017	9:31 AM	15.6	<79	<79	<79	<79	<79	<79	470	<79	<79	470
SB-32	0-1	7/10/2017	9:35 AM	26.2	<180	<180	<180	<180	<180	<180	1,900	<180	<180	1,900
	1-2	7/10/2017	9:36 AM	25.7	<45000	<45000	<45000	<45000	<45000	<45000	490,000	<45000	<45000	490,000
	2-3	7/10/2017	9:37 AM	20.3	<840	<840	<840	<840	<840	<840	7,500	<840	<840	7,500
SB-33	0-1	7/10/2017	10:06 AM	18.5	<8200	<8200	<8200	<8200	<8200	<8200	93,000	<8200	<8200	93,000
	1-2	7/10/2017	10:07 AM	20.8	<850	<850	<850	<850	<850	<850	12,000	<850	<850	12,000
	2-3	7/10/2017	10:08 AM	7.7	<73	<73	<73	<73	<73	<73	250	<73	<73	250
SB-34	0-1	7/10/2017	10:30 AM	13.9	<3900	<3900	<3900	<3900	<3900	<3900	42,000	<3900	<3900	42,000
	1-2	7/10/2017	10:33 AM	10.3	<370	<370	<370	<370	<370	<370	4,200	<370	<370	4,200
	2-3	7/10/2017	10:36 AM	11.2	<75	<75	<75	<75	<75	<75	350	<75	<75	350
NYCRR 375-6: Commercial				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1,000
NYCRR 375-6: Industrial				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	25,000
NYCRR 375-6: Unrestricted				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100

Notes:
n/a - Not applicable

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, July 2017 (ug/Kg)
TestAmerica, Inc.
Methods: 8260C

Location	SB-13	SB-15	SB-19	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	4-5	4-5	1-2			
Date Collected	7/26/2017	7/26/2017	7/26/2017			
Time Collected	11:25 AM	9:52 AM	8:39 AM			
Moisture (%)	30.3	23.7	9.3			
1,1 Dichloroethane	<480	<1900	<0.8	240,000	480,000	270
1,1 Dichloroethene	<480	<1900	<0.8	500,000	1,000,000	330
1,1,1 Trichloroethane	<480	<1900	<0.8	500,000	1,000,000	680
1,1,2 Trichloroethane	<480	<1900	<0.8	n/a	n/a	n/a
1,1,2,2 Tetrachloroethane	<480	<1900	<0.8	n/a	n/a	n/a
1,2 Dibromoethane	<480	<1900	<0.8	n/a	n/a	n/a
1,2 Dichlorobenzene	390 J	25,000	<0.8	500,000	1,000,000	1,100
1,2 Dichloroethane	<480	<1900	<0.8	30,000	60,000	20
1,2 Dichloropropane	<480	<1900	<0.8	n/a	n/a	n/a
1,2,3 Trichlorobenzene	29,000	36,000	<0.8	n/a	n/a	n/a
1,2,4 Trichlorobenzene	120,000	690,000	0.40 J	n/a	n/a	n/a
1,3 Dichlorobenzene	210 J	240,000	0.21 J	280,000	560,000	2,400
1,4 Dichlorobenzene	890	130,000	0.16 J	130,000	250,000	1,800
1,4-Dioxane	<24000	<95000	<16	130,000	250,000	100
2-Hexanone	<2400	<9500	<4	n/a	n/a	n/a
4-Methyl-2-Pentanone	<2400	<9500	<4	n/a	n/a	n/a
Acetone	<2400	<9500	56	500,000	1,000,000	50
Benzene	<480	<1900	<0.8	44,000	89,000	60
Bromochloromethane	<480	<1900	<0.8	n/a	n/a	n/a
Bromodichloromethane	<480	<1900	<0.8	n/a	n/a	n/a
Bromoform	<480	<1900	<0.8	n/a	n/a	n/a
Bromomethane	<480	<1900	<0.8	n/a	n/a	n/a
c 1,3 Dichloropropene	<480	<1900	<0.8	n/a	n/a	n/a
Carbon Disulfide	<480	<1900	<0.8	n/a	n/a	n/a
Carbon Tetrachloride	<480	<1900	<0.8	22,000	44,000	760
Chlorobenzene	<480	3,200	<0.8	500,000	1,000,000	1,100
Chloroethane	<480	<1900	<0.8	n/a	n/a	n/a
Chloroform	<480	<1900	<0.8	350,000	700,000	370
Chloromethane	<480	<1900	<0.8	n/a	n/a	n/a
cis-1,2-Dichloroethene	<480	<1900	<0.8	500,000	1,000,000	250
Cyclohexane	<480	<1900	<0.8	n/a	n/a	n/a
Cyclohexane, methyl-	<480	<1900	<0.8	n/a	n/a	n/a
Dibromochloromethane	<480	<1900	<0.8	n/a	n/a	n/a
Dibromochloropropane	<480	<1900	<0.8	n/a	n/a	n/a
Dichlorodifluoromethane	<480	<1900	<0.8	n/a	n/a	n/a
Ethylbenzene	<480	<1900	<0.8	390,000	780,000	1,000
Freon 113	<480	<1900	<0.8	n/a	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, July 2017 (ug/Kg)
TestAmerica, Inc.
Methods: 8260C

Location	SB-13	SB-15	SB-19	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	4-5	4-5	1-2			
Date Collected	7/26/2017	7/26/2017	7/26/2017			
Time Collected	11:25 AM	9:52 AM	8:39 AM			
Moisture (%)	30.3	23.7	9.3			
Isopropylbenzene	<480	<1900	<0.8	n/a	n/a	n/a
m + p Xylene	<480	<1900	0.16 J	n/a	n/a	n/a
Methyl acetate	<2400	<9500	<4	n/a	n/a	n/a
Methyl Ethyl Ketone	<2400	<9500	2.60 J	500,000	1,000,000	120
Methylene Chloride	<480	<1900	0.69 J	500,000	1,000,000	50
o-Xylene	<480	<1900	<0.8	n/a	n/a	n/a
Styrene	<480	<1900	<0.8	n/a	n/a	n/a
t 1,3 Dichloropropene	<480	<1900	<0.8	n/a	n/a	n/a
t butylmethylether	<480	<1900	0.16 J	500,000	1,000,000	930
Tetrachloroethene	<480	<1900	<0.8	150,000	300,000	1,300
Toluene	<480	<1900	<0.8	500,000	1,000,000	700
trans-1,2-Dichloroethene	<480	<1900	<0.8	500,000	1,000,000	190
Trichloroethylene	<480	<1900	<0.8	200,000	400,000	470
Trichlorofluoromethane	<480	<1900	<0.8	n/a	n/a	n/a
Vinyl Chloride	<480	<1900	<0.8	13,000	27,000	20
1,2,3,4- Tetrachlorobenzene	4,800 JN !	n/a	n/a	n/a	n/a	n/a
1,2,3,5-Tetrachlorobenzene	3,200 JN !	14,000 JN !	n/a	n/a	n/a	n/a
Calculated						
Total VOCs	158,490	1,138,200	60.4	n/a	n/a	n/a
Total BTEX	<2400	<9500	0.16	n/a	n/a	n/a
Total Xylenes	<960	<3800	0.16	500,000	1,000,000	260

Notes:

J - Indicates an estimated value below laboratory reporting limits, or value reported as a TIC

n/a - not analyzed / not applicable

! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)

N - Indicates presumptive evidence of a compound

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	Depth (ft BGS)	Date Collected	Time Collected	Moisture (%)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Polybrominated biphenyls (total)
SB-36D	6-8	9/27/2017	11:40 AM	14.1	<39000	<39000	<39000	<39000	<39000	<39000	660,000	<39000	<39000	660,000
SB-37D	0-4	9/28/2017	8:45 AM	10.2	<75000	<75000	<75000	<75000	<75000	<75000	810,000	<75000	<75000	810,000
	4-8	9/28/2017	8:50 AM	17.7	<810000	<810000	<810000	<810000	<810000	<810000	9,400,000	<810000	<810000	9,400,000
	8-12	9/28/2017	8:57 AM	18.5	<8200	<8200	<8200	<8200	<8200	<8200	140,000	<8200	<8200	140,000
	12-16	9/28/2017	9:05 AM	18.5	<410000	<410000	<410000	<410000	<410000	<410000	8,300,000	<410000	<410000	8,300,000
	16-20	9/28/2017	9:12 AM	11.5	<380000	<380000	<380000	<380000	<380000	<380000	4,800,000	<380000	<380000	4,800,000
	20-24	9/28/2017	9:28 AM	12.9	<380000	<380000	<380000	<380000	<380000	<380000	5,500,000	<380000	<380000	5,500,000
SB-38D	0-4	9/28/2017	12:23 PM	7.6	<140	<140	<140	<140	<140	<140	2,000	<140	<140	1,800
	4-8	9/28/2017	12:28 PM	14.9	<390	<390	<390	<390	<390	<390	4,300	<390	<390	4,300
	8-12	9/28/2017	12:35 PM	21.9	<1700	<1700	<1700	<1700	<1700	<1700	18,000	<1700	<1700	18,000
	12-16	9/28/2017	12:46 PM	14.6	<160	<160	<160	<160	<160	<160	2,200	<160	<160	2,200
	16-20	9/28/2017	1:03 PM	15.2	<79	<79	<79	<79	<79	<79	71 J	<79	<79	71 J
	20-24	9/28/2017	1:20 PM	10.8	<75	<75	<75	<75	<75	<75	120	<75	<75	120
NYCRR 375-6: Commercial				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1,000
NYCRR 375-6: Industrial				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	25,000
NYCRR 375-6: Unrestricted				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100

Notes:
J - Indicates an estimate dvalue below laboratory reporting limits
n/a - not analyzed / not applicable

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	SB-36D	SB-37D	SB-37D	SB-37D	SB-38D	SB-38D	SB-38D	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	6-8	4-8	8-12	20-24	4-8	8-12	20-24			
Date Collected	9/27/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017			
Time Collected	11:40 AM	8:50 AM	8:57 AM	9:28 AM	12:28 PM	12:35 PM	1:20 PM			
Moisture (%)	14.1	17.7	18.5	12.9	14.9	21.9	10.8			
1,1 Dichloroethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	240,000	480,000	270
1,1 Dichloroethene	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	500,000	1,000,000	330
1,1,1 Trichloroethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	500,000	1,000,000	680
1,1,2 Trichloroethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
1,1,2,2 Tetrachloroethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
1,2 Dibromoethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
1,2 Dichlorobenzene	250 J	11,000	480	15,000	<0.85	0.29 J	0.79	500,000	1,000,000	1,100
1,2 Dichloroethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	30,000	60,000	20
1,2 Dichloropropane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
1,2,3 Trichlorobenzene	55,000	1,200,000	20,000	660,000	1.6	120	1.6	n/a	n/a	n/a
1,2,4 Trichlorobenzene	210,000	2,800,000	81,000	2,900,000	6.4	340	9.4	n/a	n/a	n/a
1,3 Dichlorobenzene	<980	31,000	920	<14000	0.16 J	1.1	3.5	280,000	560,000	2,400
1,4 Dichlorobenzene	680 J	19,000	820	26,000	0.22 J	1.3	2.6	130,000	250,000	1,800
1,4-Dioxane	<49000	<530000	<9100	<700000	<17	<17	<14	130,000	250,000	100
2-Hexanone	<4900	<53000	<910	<70000	<4.2	<4.3	<3.5	n/a	n/a	n/a
4-Methyl-2-Pentanone	<4900	<53000	<910	<70000	<4.2	<4.3	<3.5	n/a	n/a	n/a
Acetone	<4900	<53000	<910	<70000	24	74	21	500,000	1,000,000	50
Benzene	<980	<11000	<180	<14000	0.64 J	<0.86	0.21 J	44,000	89,000	60
Bromochloromethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Bromodichloromethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Bromoform	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Bromomethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
c 1,3 Dichloropropene	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Carbon Disulfide	<980	<11000	<180	<14000	<0.85	0.47 J	<0.7	n/a	n/a	n/a
Carbon Tetrachloride	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	22,000	44,000	760

Empire Electric
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Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	SB-36D	SB-37D	SB-37D	SB-37D	SB-38D	SB-38D	SB-38D	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	6-8	4-8	8-12	20-24	4-8	8-12	20-24			
Date Collected	9/27/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017			
Time Collected	11:40 AM	8:50 AM	8:57 AM	9:28 AM	12:28 PM	12:35 PM	1:20 PM			
Moisture (%)	14.1	17.7	18.5	12.9	14.9	21.9	10.8			
Chlorobenzene	<980	<11000	<180	<14000	**0.46 J**	**2.3**	**2.7**	**500,000**	**1,000,000**	**1,100**
Chloroethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Chloroform	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	**350,000**	**700,000**	**370**
Chloromethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
cis-1,2-Dichloroethene	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	**500,000**	**1,000,000**	**250**
Cyclohexane	<980	<11000	<180	<14000	**0.37 J**	<0.86	<0.7	n/a	n/a	n/a
Cyclohexane, methyl-	<980	<11000	<180	<14000	**0.23 J**	<0.86	<0.7	n/a	n/a	n/a
Dibromochloromethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Dibromochloropropane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Dichlorodifluoromethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Ethylbenzene	<980	<11000	<180	<14000	**0.26 J**	<0.86	<0.7	**390,000**	**780,000**	**1,000**
Freon 113	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Isopropylbenzene	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
m + p Xylene	<980	<11000	<180	<14000	**0.79 J**	**0.60 J**	**0.17 J**	n/a	n/a	n/a
Methyl acetate	<4900	<53000	<910	<70000	<4.2	<4.3	<3.5	n/a	n/a	n/a
Methyl Ethyl Ketone	<4900	<53000	<910	<70000	**2.90 J**	**6.5**	**1.90 J**	**500,000**	**1,000,000**	**120**
Methylene Chloride	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	**500,000**	**1,000,000**	**50**
o-Xylene	<980	<11000	<180	<14000	**0.28 J**	**0.27 J**	**0.09 J**	n/a	n/a	n/a
Styrene	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
t 1,3 Dichloropropene	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
t butylmethylether	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	**500,000**	**1,000,000**	**930**
Tetrachloroethene	<980	<11000	<180	<14000	**0.74 J**	<0.86	<0.7	**150,000**	**300,000**	**1,300**
Toluene	<980	<11000	<180	<14000	**2.1**	<0.86	<0.7	**500,000**	**1,000,000**	**700**
trans-1,2-Dichloroethene	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	**500,000**	**1,000,000**	**190**
Trichloroethylene	<980	<11000	<180	<14000	**0.22 J**	<0.86	<0.7	**200,000**	**400,000**	**470**

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	SB-36D	SB-37D	SB-37D	SB-37D	SB-38D	SB-38D	SB-38D	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	6-8	4-8	8-12	20-24	4-8	8-12	20-24			
Date Collected	9/27/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017			
Time Collected	11:40 AM	8:50 AM	8:57 AM	9:28 AM	12:28 PM	12:35 PM	1:20 PM			
Moisture (%)	14.1	17.7	18.5	12.9	14.9	21.9	10.8			
Trichlorofluoromethane	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	n/a	n/a	n/a
Vinyl Chloride	<980	<11000	<180	<14000	<0.85	<0.86	<0.7	13,000	27,000	20
1,2,3,4- Tetrachlorobenzene	7,900 JN !	520,000 JN !	2,200 JN !	100,000 JN !	n/a	74 JN !	n/a	n/a	n/a	n/a
1,2,3,5-tetrachlorobenzene	5,300 JN !	630,000 JN !	n/a	520,000 JN !	n/a	n/a	n/a	n/a	n/a	n/a
1,2,4,5-Tetrachlorobenzene	n/a	260,000 JN !	n/a	n/a	n/a	23 JN !	n/a	n/a	n/a	n/a
2 Methylbutane	n/a	n/a	n/a	n/a	13 JN !	n/a	n/a	n/a	n/a	n/a
Pentane	n/a	n/a	n/a	n/a	5.80 JN !	n/a	n/a	n/a	n/a	n/a
Calculated										
Total BTEX	<4900	<55000	<900	<70000	4.00	0.87 J	0.47 J	n/a	n/a	n/a
Total VOCs	279,130	5,471,000	105,420	4,221,000	60.17	643.83	43.96	n/a	n/a	n/a
Total Xylenes	<1960	<22000	<360	<28000	1.07 J	0.87 J	0.26 J	500,000	1,000,000	260

Notes:
J - Indicates an estimated value below laboratory reporting limits
n/a - not analyzed / not applicable
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
N - Indicates presumptive evidence of a compound

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Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-36D	SB-37D	SB-37D	SB-37D	SB-38D	SB-38D	SB-38D	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	6-8	4-8	8-12	20-24	4-8	8-12	20-24			
Date Collected	9/27/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017			
Time Collected	11:40 AM	8:50 AM	8:57 AM	9:28 AM	12:28 PM	12:35 PM	1:20 PM			
Moisture (%)	14.1	17.7	18.5	12.9	14.9	21.9	10.8			
1,1-Biphenyl	52 J	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
1,2,4,5-Tetrachlorobenzene	4,200	79,000	890	48,000	<390	<420	<370	n/a	n/a	n/a
2,3,4,6-Tetrachlorophenol	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
2,4,5-Trichlorophenol	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
2,4,6-Trichlorophenol	<150	<3200	<160	<1500	<160	<170	<150	n/a	n/a	n/a
2,4-Dichlorophenol	<150	<3200	<160	<1500	<160	<170	<150	n/a	n/a	n/a
2,4-Dimethylphenol	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
2,4-Dinitrophenol	<310	<6500	<330	<3100	<310	<340	<300	n/a	n/a	n/a
2,4-Dinitrotoluene	<78	<1600	<82	<770	<79	<86	<75	n/a	n/a	n/a
2,6-Dinitrotoluene	<78	<1600	<82	<770	<79	<86	<75	n/a	n/a	n/a
2-Chloronaphthalene	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
2-Chlorophenol	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
2-Methyl-4,6-dinitrophenol	<310	<6500	<330	<3100	<310	<340	<300	n/a	n/a	n/a
2-Methylnaphthalene	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
2-Nitroaniline	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
2-Nitrophenol	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
3,3-Dichlorobenzidine	<150	<3200	<160	<1500	<160	<170	<150	n/a	n/a	n/a
3-Nitroaniline	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
4-Bromophenyl-phenylether	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
4-Chloro-3-methylphenol	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
4-Chloroaniline	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
4-Chlorophenyl-phenylether	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
4-Nitroaniline	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
4-Nitrophenol	<780	<16000	<820	<7700	<790	<860	<750	n/a	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-36D	SB-37D	SB-37D	SB-37D	SB-38D	SB-38D	SB-38D	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	6-8	4-8	8-12	20-24	4-8	8-12	20-24			
Date Collected	9/27/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017			
Time Collected	11:40 AM	8:50 AM	8:57 AM	9:28 AM	12:28 PM	12:35 PM	1:20 PM			
Moisture (%)	14.1	17.7	18.5	12.9	14.9	21.9	10.8			
Acenaphthene	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	20,000
Acenaphthylene	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	100,000
Acetophenone	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Anthracene	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	100,000
Atrazine	<150	<3200	<160	<1500	<160	<170	<150	n/a	n/a	n/a
Benzaldehyde	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Benzo(a)anthracene	<38	<800	<40	<380	<39	<42	<37	5,600	11,000	1,000
Benzo(a)pyrene	<38	<800	<40	<380	<39	<42	<37	1,000	1,100	1,000
Benzo(b)fluoranthene	49	<800	<40	<380	<39	<42	<37	5,600	11,000	1,000
Benzo(g,h,i)perylene	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	100,000
Benzo(k)fluoranthene	<38	<800	<40	<380	<39	<42	<37	56,000	110,000	800
bis(2-Chloroethoxy)methane	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
bis(2-Chloroethyl)ether	<38	<800	<40	<380	<39	<42	<37	n/a	n/a	n/a
bis(2-Chloroisopropyl)ether	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
bis(2-Ethylhexyl)phthalate	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Butylbenzylphthalate	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Caprolactam	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Carbazole	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Chrysene	<380	<8000	<400	<3800	<390	<420	<370	56,000	110,000	1,000
Dibenzo(a,h)anthracene	<38	<800	<40	<380	<39	<42	<37	560	1,100	330
Dibenzofuran	<380	<8000	<400	<3800	<390	<420	<370	350,000	1,000,000	7,000
Diethylphthalate	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Dimethylphthalate	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Di-n-butylphthalate	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-36D	SB-37D	SB-37D	SB-37D	SB-38D	SB-38D	SB-38D	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	6-8	4-8	8-12	20-24	4-8	8-12	20-24			
Date Collected	9/27/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017			
Time Collected	11:40 AM	8:50 AM	8:57 AM	9:28 AM	12:28 PM	12:35 PM	1:20 PM			
Moisture (%)	14.1	17.7	18.5	12.9	14.9	21.9	10.8			
Di-n-octylphthalate	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Fluoranthene	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	100,000
Fluorene	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	30,000
Hexachlorobenzene	710	4,700	<40	3,300	<39	<42	<37	6,000	12,000	330
Hexachlorobutadiene	<78	<1600	<82	<770	<79	<86	<75	n/a	n/a	n/a
Hexachlorocyclopentadiene	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
Hexachloroethane	<38	<800	<40	<380	<39	<42	<37	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene	<38	<800	<40	<380	<39	<42	<37	5,600	11,000	500
Isophorone	<150	<3200	<160	<1500	<160	<170	<150	n/a	n/a	n/a
Naphthalene	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	12,000
Nitrobenzene	<38	<800	<40	<380	<39	<42	<37	n/a	n/a	n/a
N-Nitrosodi-N-Propylamine	<38	<800	<40	<380	<39	<42	<37	n/a	n/a	n/a
N-Nitrosodiphenylamine	<380	<8000	<400	<3800	<390	<420	<370	n/a	n/a	n/a
o-cresol	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	330
p-cresol	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	330
Pentachlorophenol	<310	<6500	<330	<3100	<310	<340	<300	6,700	55,000	800
Phenanthrene	<380	<8000	<400	530 J	<390	<420	<370	500,000	1,000,000	100,000
Phenol (total)	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	330
Pyrene	<380	<8000	<400	<3800	<390	<420	<370	500,000	1,000,000	100,000
1,2,3 Trichlorobenzene	n/a	250,000 JN !	10,000 JN !	160,000 JN !	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,5-tetrachlorobenzene	n/a	150,000 JN !	2,200 JN !	100,000 JN !	n/a	n/a	n/a	n/a	n/a	n/a
1,2,4 Trichlorobenzene	38,000 !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,3,5-TRICHLOROBENZENE	8,200 JN !	640,000 JN !	2,500 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Octachlorobiphenyl; 2,2",3,3",4,5,6,6"- (PCB 200)	n/a	75,000 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-36D	SB-37D	SB-37D	SB-37D	SB-38D	SB-38D	SB-38D	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	6-8	4-8	8-12	20-24	4-8	8-12	20-24			
Date Collected	9/27/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017			
Time Collected	11:40 AM	8:50 AM	8:57 AM	9:28 AM	12:28 PM	12:35 PM	1:20 PM			
Moisture (%)	14.1	17.7	18.5	12.9	14.9	21.9	10.8			
Unknown SVOC w/ highest conc.	19,000 J !	120,000 J !	2,100 J !	130,000 J !	n/a	700 J !	n/a	n/a	n/a	n/a
Unknown SVOC w/ 2nd highest conc.	6,000 J !	110,000 J !	1,600 J !	56,000 J !	n/a	n/a	n/a	n/a	n/a	n/a
Unknown SVOC w/ 3rd highest conc.	5,000 J !	110,000 J !	n/a	54,000 J !	n/a	n/a	n/a	n/a	n/a	n/a
Unknown SVOC w/ 4th highest conc. (All	3,900 J !	100,000 J !	n/a	33,000 J !	n/a	n/a	n/a	n/a	n/a	n/a
Unknown SVOC w/ 5th highest conc.	3,900 J !	87,000 J !	n/a	30,000 J !	n/a	n/a	n/a	n/a	n/a	n/a
Unknown SVOC w/ 6th highest conc.	n/a	67,000 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Unknown SVOC w/ 7th highest conc. (All	n/a	61,000 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Calculated Total SVOC's	89,011	1,853,700	19,290	614,830	<20,346	700	<19,312	n/a	n/a	n/a

Notes:
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
N - Indicates presumptive evidence of a compound
J - Indicates an estimated value below laboratory reporting limits or reported as a TIC.
n/a - not analyzed / not applicable

Empire Electric
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Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8081B

Location	SB-36D	SB-37D	SB-37D	SB-37D	SB-38D	SB-38D	SB-38D	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	6-8	20-24	4-8	8-12	20-24	4-8	8-12			
Date Collected	9/27/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017			
Time Collected	11:40 AM	9:28 AM	8:50 AM	8:57 AM	1:20 PM	12:28 PM	12:35 PM			
Moisture (%)	14.1	12.9	17.7	18.5	10.8	14.9	21.9			
4,4,-DDT	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	47,000	94,000	3.3
4,4-DDD	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	92,000	180,000	3.3
4,4-DDE	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	62,000	120,000	3.3
Aldrin	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	680	1,400	5
alpha BHC	<47	<46	<49	<2.5	<2.2	<2.3	<2.6	3,400	6,800	20
beta BHC	<47	<46	<49	<2.5	<2.2	<2.3	<2.6	3,000	14,000	36
Chlordane	<1600	<1500	<1600	<82	<75	<79	<86	n/a	n/a	n/a
delta-BHC	<47	<46	<49	<2.5	<2.2	<2.3	<2.6	500,000	1,000,000	40
Dieldrin	<47	<46	<49	<2.5	<2.2	<2.3	<2.6	1,400	2,800	5
Endosulfan I	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	200,000	920,000	2,400
Endosulfan II	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	200,000	920,000	2,400
Endosulfan Sulfate	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	200,000	920,000	2,400
Endrin	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	89,000	410,000	14
Endrin Aldehyde	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	n/a	n/a	n/a
Endrin ketone	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	n/a	n/a	n/a
Gamma-BHC(Lindane)	<47	<46	<49	<2.5	<2.2	<2.3	<2.6	9,200	23,000	100
Heptachlor	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	15,000	29,000	42
Heptachlor Epoxide	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	n/a	n/a	n/a
Methoxychlor	<160	<150	<160	<8.2	<7.5	<7.9	<8.6	n/a	n/a	n/a
Toxaphene	<1600	<1500	<1600	<82	<75	<79	<86	n/a	n/a	n/a

Notes:
n/a - not analyzed / not applicable

Empire Electric
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Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results - Temporary Soil Borings, September 2017 (mg/Kg)
TestAmerica, Inc.
Methods: SW6010C, SW7471B, SW9012

Location	SB-36D	SB-37D	SB-37D	SB-37D	SB-38D	SB-38D	SB-38D	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	6-8	20-24	4-8	8-12	20-24	4-8	8-12			
Date Collected	9/27/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017			
Time Collected	11:40 AM	9:28 AM	8:50 AM	8:57 AM	1:20 PM	12:28 PM	12:35 PM			
Moisture (%)	14.1	12.9	17.7	18.5	10.8	14.9	21.9			
Aluminum	3,950	1,900	2,780	2,170	2,720	2,870	4,540	n/a	n/a	n/a
Antimony	<3.4	<3.4	<4	<3.7	<4.4	<4.6	<4.8	n/a	n/a	n/a
Arsenic	2 J	<2.6	1.20 J	1.10 J	0.92 J	1.40 J	1.80 J	16	16	13
Barium	34.30 J	24.90 J	17.20 J	26.80 J	23.10 J	28.70 J	40.10 J	400	10,000	350
Beryllium	0.29 J	0.21 J	0.27 J	0.21 J	0.18 J	0.19 J	0.25 J	590	2,700	7.2
Cadmium	<0.69	<0.69	<0.79	<0.74	<0.87	<0.92	<0.96	9.3	60	2.5
Calcium	6,380	672 J	6,090	5,670	900 J	3,960	40,800	n/a	n/a	n/a
Chromium (total)	9.6	5.1	7.6	6.3	7.3	7.1	9.1	n/a	n/a	n/a
Cobalt	4.60 J	2.70 J	4.20 J	2.80 J	2.80 J	3.20 J	3.30 J	n/a	n/a	n/a
Copper	10.2	6.7	12.4	7.5	6.6	8.3	8.9	270	10,000	50
Cyanide	<0.28	<0.26	<0.28	<0.31	<0.27	<0.27	<0.31	27	10,000	27
Iron	9,790	7,730	7,840	7,200	6,700	6,780	7,140	n/a	n/a	n/a
Lead	53.5	2.2	14.7	4.1	2.5	7.4	8.9	1,000	3,900	63
Magnesium	2,960	1,040	3,140	2,930	1,330	2,670	7,880	n/a	n/a	n/a
Manganese	222	174	158	135	191	181	216	10,000	10,000	1,600
Mercury	0.04	<0.017	0.09	<0.019	<0.018	0.01 J	0.02	2.8	5.7	0.18
Nickel	19.2	6.10 J	11.5	9.7	6 J	11.9	12.6	310	10,000	30
Potassium	923	341 J	692 J	666 J	484 J	820 J	740 J	n/a	n/a	n/a
Selenium	<3.4	<3.4	<4	<3.7	<4.4	<4.6	<4.8	1,500	6,800	3.9
Silver	<1.7	<1.7	<2	<1.8	<2.2	<2.3	<2.4	1,500	6,800	2
Sodium	92.30 J	73.40 J	<988	<922	119 J	111 J	162 J	n/a	n/a	n/a
Thallium	<3.4	<3.4	<4	<3.7	<4.4	<4.6	<4.8	n/a	n/a	n/a
Vanadium	13.3	11.2	11.6	9.7	10.9	9.20 J	12.5	n/a	n/a	n/a
Zinc	30	10.9	20.4	16.7	12.8	21.2	20.1	10,000	10,000	109

Notes:
J - Indicates an estimate dvalue below laboratory reporting limits
n/a - not analyzed / not applicable

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - July-August, 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8082A

Location	SB-13_GW	SB-15_GW	SB-18_GW	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	1-3	4-6	3-5		
Date Collected	7/7/2017	7/7/2017	7/10/2017		
Time Collected	10:30 AM	9:50 AM	9:50 AM		
Aroclor 1016	<40	<80	<0.4	n/a	n/a
Aroclor 1221	<40	<80	<0.4	n/a	n/a
Aroclor 1232	<40	<80	<0.4	n/a	n/a
Aroclor 1242	<40	<80	<0.4	n/a	n/a
Aroclor 1248	<40	<80	<0.4	n/a	n/a
Aroclor 1254	<40	<80	<0.4	n/a	n/a
Aroclor 1260	**290**	**1,000**	**7.3**	n/a	n/a
Aroclor 1262	<40	<80	<0.4	n/a	n/a
Aroclor 1268	<40	<80	<0.4	n/a	n/a
Polybrominated biphenyls (total)	**290**	**1,000**	**7.3**	**5**	**n/a**
DISSOLVED					
Date Collected	8/9/2017	8/9/2017	8/9/2017		
Time Collected	11:20 AM	10:40 AM	10:00 AM		
Aroclor 1016	<0.4	<2	<0.4	n/a	n/a
Aroclor 1221	<0.4	<2	<0.4	n/a	n/a
Aroclor 1232	<0.4	<2	<0.4	n/a	n/a
Aroclor 1242	<0.4	<2	<0.4	n/a	n/a
Aroclor 1248	<0.4	<2	<0.4	n/a	n/a
Aroclor 1254	<0.4	<2	<0.4	n/a	n/a
Aroclor 1260	**3.1**	**1.40 DJ**	**0.33 J**	n/a	n/a
Aroclor 1262	<0.4	<2	<0.4	n/a	n/a
Aroclor 1268	<0.4	<2	<0.4	n/a	n/a
Polybrominated biphenyls (total)	**3.1**	**1.40 DJ**	**0.33 J**	**5**	n/a

Notes:
J - Indicates an estimate dvalue below laboratory reporting limits
D - Indicates sample was diluted in the laboratory
n/a - not analyzed / not applicable
Samples for analysis of dissolved compounds were filtered by the laboratory

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - July-August, 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8260C, SW8260C-SIM

Location	SB-13_GW	SB-15_GW	SB-18_GW	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	1-3	4-6	3-5		
Date Collected	7/26/2017	7/26/2017	7/26/2017		
Time Collected	9:02 AM	9:09 AM	9:16 AM		
1,1 Dichloroethane	<1	<10	<1	**5**	n/a
1,1 Dichloroethene	<1	<10	<1	**5**	n/a
1,1,1 Trichloroethane	<1	<10	<1	**5**	n/a
1,1,2 Trichloroethane	<1	<10	<1	**1**	n/a
1,1,2,2 Tetrachloroethane	<1	<10	<1	**5**	n/a
1,2 Dibromoethane	<1	n/a	<1	**0.001**	n/a
1,2 Dichlorobenzene	<1	**300**	<1	**3**	n/a
1,2 Dichloroethane	<1	<10	<1	**0.6**	n/a
1,2 Dichloropropane	<1	<10	<1	**1**	n/a
1,2,3 Trichlorobenzene	**81**	**720**	<1	**5**	n/a
1,2,4 Trichlorobenzene	**67**	**3,100**	**0.40 J**	**5**	n/a
1,3 Dichlorobenzene	**0.73 J**	**1,000**	**0.52 J**	**3**	n/a
1,4 Dichlorobenzene	**0.42 J**	**440**	<1	**3**	n/a
1,4-Dioxane	<0.4	<0.8	<0.4	n/a	n/a
2-Hexanone	<5	<50	<5	n/a	**50**
4-Methyl-2-Pentanone	<5	<50	<5	n/a	n/a
Acetone	**14**	<50	**23**	n/a	**50**
Benzene	**0.22 J**	**1.60 J**	<1	**1**	n/a
Bromochloromethane	<1	<10	<1	**5**	n/a
Bromodichloromethane	<1	<10	<1	n/a	**50**
Bromoform	<1	<10	<1	n/a	**50**
Bromomethane	<1	<10	<1	**5**	n/a
c 1,3 Dichloropropene	<1	<10	<1	n/a	n/a
Carbon Disulfide	<1	<10	<1	n/a	**60**
Carbon Tetrachloride	<1	<10	<1	**5**	n/a
Chlorobenzene	<1	**120**	<1	**5**	n/a
Chloroethane	<1	<10	<1	**5**	n/a
Chloroform	<1	<10	<1	**7**	n/a
Chloromethane	<1	<10	<1	**5**	n/a
cis-1,2-Dichloroethene	<1	<10	<1	**5**	n/a
Cyclohexane	<1	<10	<1	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - July-August, 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8260C, SW8260C-SIM

Location	SB-13_GW	SB-15_GW	SB-18_GW	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	1-3	4-6	3-5		
Date Collected	7/26/2017	7/26/2017	7/26/2017		
Time Collected	9:02 AM	9:09 AM	9:16 AM		
Cyclohexane, methyl-	<1	<10	<1	n/a	n/a
Dibromochloromethane	<1	<10	<1	n/a	**50**
Dibromochloropropane	<1	<10	<1	**0.04**	n/a
Dichlorodifluoromethane	<1	<10	<1	**5**	n/a
Ethylbenzene	<1	<10	<1	**5**	n/a
Freon 113	<1	<10	<1	**5**	n/a
Isopropylbenzene	<1	<10	<1	**5**	n/a
m + p Xylene	<1	<10	<1	**5***	n/a
Methyl acetate	<5	<50	<5	n/a	n/a
Methyl Ethyl Ketone	<5	<50	<5	n/a	**50**
Methylene Chloride	<1	<10	<1	**5**	n/a
o-Xylene	<1	<10	<1	**5**	n/a
Styrene	<1	<10	<1	**5**	n/a
t 1,3 Dichloropropene	<1	<10	<1	n/a	n/a
t butylmethylether	<1	<10	<1	n/a	**10**
Tetrachloroethene	<1	<10	**0.44 J**	**5**	n/a
Toluene	<1	<10	<1	**5**	n/a
trans-1,2-Dichloroethene	<1	<10	<1	**5**	n/a
Trichloroethylene	<1	<10	<1	**5**	n/a
Trichlorofluoromethane	<1	<10	<1	**5**	n/a
Vinyl Chloride	<1	<10	<1	**2**	n/a
Calculated					
Total VOC's	**163.37**	**5,681.60**	**24.36**	n/a	n/a
SW8260C-SIM Total	<0.4	<0.8	<0.4	n/a	n/a
Total BTEX	**0.22**	**2**	<5	n/a	n/a

Notes:
J - Indicates an estimate dvalue below laboratory reporting limits
n/a - not analyzed / not applicable

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - July-August, 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-13_GW	SB-15_GW	SB-18_GW	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	1-3	4-6	3-5		
Date Collected	7/26/2017	7/26/2017	7/26/2017		
Time Collected	9:02 AM	9:09 AM	9:16 AM		
1,1-Biphenyl	<10	<10	<10	**5**	n/a
1,2,4,5-Tetrachlorobenzene	**15**	**42**	<10	n/a	n/a
2,3,4,6-Tetrachlorophenol	**0.90 J**	<10	<10	n/a	n/a
2,4,5-Trichlorophenol	<10	<10	<10	n/a	n/a
2,4,6-Trichlorophenol	<10	<10	<10	n/a	n/a
2,4-Dichlorophenol	<10	<10	<10	**5**	n/a
2,4-Dimethylphenol	<10	<10	<10	n/a	**50**
2,4-Dinitrophenol	<20	<20	<20	n/a	**10**
2,4-Dinitrotoluene	<2	<2	<2	**5**	n/a
2,6-Dinitrotoluene	<2	<2	<2	**5**	n/a
2-Chloronaphthalene	<10	<10	<10	n/a	**10**
2-Chlorophenol	<10	<10	<10	n/a	n/a
2-Methyl-4,6-dinitrophenol	<20	<20	<20	n/a	n/a
2-Methylnaphthalene	<10	<10	<10	n/a	n/a
2-Nitroaniline	<10	<10	<10	**5**	n/a
2-Nitrophenol	<10	<10	<10	n/a	n/a
3,3-Dichlorobenzidine	<10	<10	<10	**5**	n/a
3-Nitroaniline	<10	<10	<10	**5**	n/a
4-Bromophenyl-phenylether	<10	<10	<10	n/a	n/a
4-Chloro-3-methylphenol	<10	<10	<10	n/a	n/a
4-Chloroaniline	<10	<10	<10	**5**	n/a
4-Chlorophenyl-phenylether	<10	<10	<10	n/a	n/a
4-Nitroaniline	<10	<10	<10	**5**	n/a
4-Nitrophenol	<20	<20	<20	n/a	n/a
Acenaphthene	<10	<10	<10	n/a	**20**
Acenaphthylene	<10	<10	<10	n/a	n/a
Acetophenone	<10	<10	<10	n/a	n/a
Anthracene	<10	<10	<10	n/a	**50**
Atrazine	<2	<2	<2	**7.5**	n/a
Benzaldehyde	<10	<10	<10	n/a	n/a
Benzo(a)anthracene	<1	<1	<1	n/a	**0.002**

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - July-August, 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-13_GW	SB-15_GW	SB-18_GW	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	1-3	4-6	3-5		
Date Collected	7/26/2017	7/26/2017	7/26/2017		
Time Collected	9:02 AM	9:09 AM	9:16 AM		
Benzo(a)pyrene	<1	<1	<1	n/a	n/a
Benzo(b)fluoranthene	<1	<1	<1	n/a	**0.002**
Benzo(g,h,i)perylene	<10	<10	<10	n/a	n/a
Benzo(k)fluoranthene	<1	<1	<1	n/a	**0.002**
bis(2-Chloroethoxy)methane	<10	<10	<10	**5**	n/a
bis(2-Chloroethyl)ether	<1	<1	<1	**1**	n/a
bis(2-Chloroisopropyl)ether	<10	<10	<10	**5**	n/a
bis(2-Ethylhexyl)phthalate	<2	<2	<2	**5**	n/a
Butylbenzylphthalate	<10	<10	<10	n/a	**50**
Caprolactam	<10	<10	<10	n/a	n/a
Carbazole	<10	<10	<10	n/a	n/a
Chrysene	<2	<2	<2	n/a	**0.002**
Dibenzo(a,h)anthracene	<1	<1	<1	n/a	n/a
Dibenzofuran	<10	<10	<10	n/a	n/a
Diethylphthalate	<10	<10	<10	n/a	**50**
Dimethylphthalate	<10	<10	<10	n/a	**50**
Di-n-butylphthalate	**1.10 J**	<10	**1.20 J**	**50**	n/a
Di-n-octylphthalate	<10	<10	<10	n/a	**50**
Fluoranthene	<10	<10	<10	n/a	**50**
Fluorene	<10	<10	<10	n/a	**50**
Hexachlorobenzene	<1	<1	<1	**0.04**	n/a
Hexachlorobutadiene	<1	<1	<1	**0.5**	n/a
Hexachlorocyclopentadiene	<10	<10	<10	**5**	n/a
Hexachloroethane	<1	<1	<1	**5**	n/a
Indeno(1,2,3-cd)pyrene	<1	<1	<1	n/a	**0.002**
Isophorone	<10	<10	<10	n/a	**50**
Naphthalene	<10	<10	<10	n/a	**10**
Nitrobenzene	<1	<1	<1	**0.4**	n/a
N-Nitrosodi-N-Propylamine	<1	<1	<1	n/a	n/a
N-Nitrosodiphenylamine	<10	<10	<10	n/a	**50**
o-cresol	<10	<10	<10	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - July-August, 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-13_GW	SB-15_GW	SB-18_GW	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	1-3	4-6	3-5		
Date Collected	7/26/2017	7/26/2017	7/26/2017		
Time Collected	9:02 AM	9:09 AM	9:16 AM		
p-cresol	<10	<10	<10	n/a	n/a
Pentachlorophenol	<20	<20	<20	**1.5**	n/a
Phenanthrene	<10	<10	<10	n/a	**50**
Phenol (total)	<10	<10	<10	**1**	n/a
Pyrene	<10	<10	<10	n/a	**50**
1,2 Dichlorobenzene	n/a	**210 JN !**	n/a	**3**	n/a
1,2,3 Trichlorobenzene	**190 JN !**	**700 JN !**	n/a	**5**	n/a
1,2,3,4- Tetrachlorobenzene	**72 JN !**	n/a	n/a	n/a	n/a
1,2,3,5-Tetrachlorobenzene	n/a	**150 JN !**	n/a	n/a	n/a
1,3 Dichlorobenzene	n/a	**79 JN !**	n/a	**3**	n/a
Pentachlorobenzene	**6.90 JN !**	**29 JN !**	n/a	**5**	n/a
Unknown Semivolatile w/ 2nd Highest Conc.	**65 J !**	**130 J !**	n/a	n/a	n/a
Unknown Semivolatile w/ 3rd Highest Conc.	**22 JN !**	**110 J !**	n/a	n/a	n/a
Unknown Semivolatile w/ 4th Highest Conc.	**13 J !**	**89 JN !**	n/a	n/a	n/a
Unknown Semivolatile w/ 5th Highest Conc.	**9.50 J !**	**38 J !**	n/a	n/a	n/a
Unknown Semivolatile w/ 6th Highest Conc.	**8.90 J !**	**31 J !**	n/a	n/a	n/a
Unknown Semivolatile w/ 7th Highest Conc.	**7.10 J !**	**27 J !**	n/a	n/a	**n/a**
Unknown Semivolatile w/ Highest Conc.	**130 J !**	**200 J !**	n/a	n/a	n/a
Calculated Total SVOC's	**715.6**	**2,292**	**1.2**	n/a	n/a

Notes:
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
N - Indicates presumptive evidence of a compound
J - Indicates an estimated value below laboratory reporting limits, or reported as TIC.
n/a - not analyzed / not applicable

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - July-August, 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8081B

Location	SB-13_GW	SB-15_GW	SB-18_GW	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	1-3	4-6	3-5		
Date Collected	7/26/2017	7/26/2017	7/26/2017		
Time Collected	9:02 AM	9:09 AM	9:16 AM		
4,4,-DDT	<0.02	<0.4	<0.02	**0.2**	n/a
4,4-DDD	<0.02	<0.4	<0.02	**0.3**	n/a
4,4-DDE	<0.02	<0.4	<0.02	**0.2**	n/a
Aldrin	<0.02	<0.4	<0.02	n/a	n/a
alpha BHC	<0.02	<0.4	<0.02	**0.01**	n/a
beta BHC	<0.02	<0.4	<0.02	**0.04**	n/a
Chlordane	<0.5	<10	<0.5	**0.05**	n/a
delta-BHC	<0.02	<0.4	<0.02	**0.04**	n/a
Dieldrin	<0.02	<0.4	<0.02	**0.004**	n/a
Endosulfan I	<0.02	<0.4	<0.02	n/a	n/a
Endosulfan II	<0.02	<0.4	<0.02	n/a	n/a
Endosulfan Sulfate	<0.02	<0.4	<0.02	n/a	n/a
Endrin	<0.02	<0.4	<0.02	n/a	n/a
Endrin Aldehyde	<0.02	<0.4	<0.02	**5**	n/a
Endrin ketone	<0.02	<0.4	<0.02	**5**	n/a
Gamma-BHC(Lindane)	<0.02	<0.4	<0.02	**0.05**	n/a
Heptachlor	<0.02	<0.4	<0.02	**0.04**	n/a
Heptachlor Epoxide	<0.02	<0.4	<0.02	**0.03**	n/a
Methoxychlor	<0.02	<0.4	<0.02	**35**	n/a
Toxaphene	<0.5	<10	<0.5	**0.06**	n/a

Notes:
n/a - not analyzed / not applicable

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - July-August, 2017 (ug/L)
TestAmerica, Inc.
Methods: SW6020A, SW7470A, SW9012

Location	SB-13_GW	SB-15_GW	SB-18_GW	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	1-3	4-6	3-5		
Date Collected	7/26/2017	7/26/2017	7/26/2017		
Time Collected	9:02 AM	9:09 AM	9:16 AM		
Aluminum	2,940	217,000	59,800	n/a	n/a
Antimony	2.1	1.80 J	3.7	3	n/a
Arsenic	10.1	66.4	26.1	25	n/a
Barium	36.4	2,530	621	1,000	n/a
Beryllium	<0.8	21.5	4.9	n/a	3
Cadmium	<2	4.2	1 J	5	n/a
Calcium	22,400	656,000	64,700	n/a	n/a
Chromium (total)	4.7	347	197	50	n/a
Cobalt	2.40 J	201	80.3	n/a	n/a
Copper	20.5	1,160	222	200	n/a
Cyanide	<10	<10	<10	200	n/a
Iron	3,940	370,000	123,000	300	n/a
Lead	23.4	1,200	157	25	n/a
Magnesium	5,040	212,000	42,600	n/a	35,000
Manganese	128	14,800	3,600	300	n/a
Mercury	<0.2	8.7	0.85	0.7	n/a
Nickel	14.4	704	327	100	n/a
Potassium	15,900	83,900	34,900	n/a	n/a
Selenium	2.20 J	4.40 J	3 J	10	n/a
Silver	<2	2.2	<2	50	n/a
Sodium	29,500	43,600	38,000	20,000	n/a
Thallium	<0.8	3.9	1.1	n/a	0.5
Vanadium	20.7	463	160	n/a	n/a
Zinc	22.7	1,350	1,370	n/a	2,000
DISSOLVED					
Date Collected	8/9/2017	8/9/2017	8/9/2017		
Time Collected	11:20 AM	10:40 AM	10:00 AM		
Aluminum, Dissolved	<40	<40	<40	n/a	n/a
Antimony, Dissolved	1.20 J	<2	4.3	n/a	n/a
Arsenic, Dissolved	11	5.4	1.40 J	n/a	n/a
Barium, Dissolved	14.9	140	48.5	n/a	n/a
Beryllium, Dissolved	<0.8	<0.8	<0.8	n/a	n/a
Cadmium, Dissolved	<2	<2	<2	n/a	n/a
Calcium, Dissolved	21,400	46,800	34,900	n/a	n/a
Chromium (total)	<4	<4	<4	50	n/a
Cobalt, Dissolved	<4	<4	<4	n/a	n/a
Copper, Dissolved	4.5	1.50 J	3.30 J	n/a	n/a
Iron (Dissolved)	<120	44.80 J	<120	300	n/a
Lead, Dissolved	<1.2	<1.2	<1.2	n/a	n/a
Magnesium, Dissolved	3,160	9,380	5,500	n/a	n/a
Manganese (Dissolved)	18.3	575	13.5	300	n/a
Mercury, Dissolved	<0.2	<0.2	<0.2	n/a	n/a
Nickel, Dissolved	<4	<4	<4	n/a	n/a
Potassium, Dissolved	14,100	22,300	17,600	n/a	n/a
Selenium, Dissolved	2.50 J	1.20 J	1.40 J	n/a	n/a
Silver, Dissolved	<2	<2	<2	n/a	n/a
Sodium, Dissolved	19,700	30,700	25,800	n/a	n/a
Thallium, Dissolved	<0.8	<0.8	<0.8	n/a	n/a
Vanadium, Dissolved	14.3	9.2	2.60 J	n/a	n/a
Zinc, Dissolved	<16	<16	11.10 J	n/a	n/a

Notes:
J - Indicates an estimate dvalue below laboratory reporting limits
n/a - not analyzed / not applicable
Samples for analysis of dissolved compounds were filtered by the laboratory

Empire Electric
5200 1st Avenue
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - July-August, 2017 (ng/L)
TestAmerica, Inc.
Methods: Modified EPA 537

Location	SB-13_GW	SB-15_GW	SB-18_GW	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth	1-3	4-6	3-5		
Date Collected	7/26/2017	7/26/2017	7/26/2017		
Time Collected	9:02 AM	9:09 AM	9:16 AM		
Perfluorobutanesulfonic acid (PFBS)	9.89	17.6	10	n/a	n/a
Perfluoroheptanoic acid (PFHpA)	<2	<2	<2	n/a	n/a
Perfluorohexanesulfonic acid (PFHxS)	<2	5.67	<2	n/a	n/a
perfluorononanoic acid (PFNA)	2.17	3.07	5.44	n/a	n/a
perfluorooctanesulfonic acid (PFOS)	10.5	27.3	82.7	n/a	n/a
perfluorooctanoic acid (PFOA)	17.3	34.2	35.9	n/a	n/a
Calculated Total PFC's	39.86	87.84	134.04	n/a	n/a

Notes:
n/a - not analyzed / not applicable

Empire Electric
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Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8082A

Location	SB-36	SB-37S	SB-37D	SB-38	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	3-8	6-11	19-24	6.5-11.5		
Date Collected	10/3/2017	10/3/2017	10/3/2017	10/3/2017		
Time Collected	12:00 PM	10:40 AM	11:25 AM	10:00 AM		
Aroclor 1016	<2	<4	<4	<0.4	n/a	n/a
Aroclor 1221	<2	<4	<4	<0.4	n/a	n/a
Aroclor 1232	<2	<4	<4	<0.4	n/a	n/a
Aroclor 1242	<2	<4	<4	<0.4	n/a	n/a
Aroclor 1248	<2	<4	<4	<0.4	n/a	n/a
Aroclor 1254	<2	<4	<4	<0.4	n/a	n/a
Aroclor 1260	**8.8**	**24**	**16**	**0.81**	n/a	n/a
Aroclor 1262	<2	<4	<4	<0.4	n/a	n/a
Aroclor 1268	<2	<4	<4	<0.4	n/a	n/a
Polybrominated biphenyls (total)	**8.8**	**24**	**16**	**0.81**	**5**	n/a

Notes:
n/a - not analyzed / not applicable

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017(ug/L)
TestAmerica, Inc.
Methods: SW8260C

Location	SB-36	SB-37S	SB-37D	SB-38	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	3-8	6-11	19-24	6.5-11.5		
Date Collected	10/3/2017	10/3/2017	10/3/2017	10/3/2017		
Time Collected	12:00 PM	10:40 AM	11:25 AM	10:00 AM		
1,1 Dichloroethane	<20	<25	<25	<1	5	n/a
1,1 Dichloroethene	<20	<25	<25	<1	5	n/a
1,1,1 Trichloroethane	<20	<25	<25	<1	5	n/a
1,1,2 Trichloroethane	<20	<25	<25	<1	1	n/a
1,1,2,2 Tetrachloroethane	<20	<25	<25	<1	5	n/a
1,2 Dibromoethane	<20	<25	<25	<1	0.001	n/a
1,2 Dichlorobenzene	24	430	110	<1	3	n/a
1,2 Dichloroethane	<20	<25	<25	<1	0.6	n/a
1,2 Dichloropropane	<20	<25	<25	<1	1	n/a
1,2,3 Trichlorobenzene	1,400	1,900	2,200	<1	5	n/a
1,2,4 Trichlorobenzene	4,500	7,300	8,100	<1	5	n/a
1,3 Dichlorobenzene	12 J	760	100	2.3	3	n/a
1,4 Dichlorobenzene	56	610	200	1.6	3	n/a
1,4-Dioxane	<1000	<1300	<1300	<50	n/a	n/a
2-Hexanone	<100	<130	<130	<5	n/a	50
4-Methyl-2-Pentanone	<100	<130	<130	<5	n/a	n/a
Acetone	<100	<130	<130	6.1	n/a	50
Benzene	<20	4.40 J	3 J	1.6	1	n/a
Bromochloromethane	<20	<25	<25	<1	5	n/a
Bromodichloromethane	<20	<25	<25	<1	n/a	50
Bromoform	<20	<25	<25	<1	n/a	50
Bromomethane	<20	<25	<25	<1	5	n/a
c 1,3 Dichloropropene	<20	<25	<25	<1	n/a	n/a
Carbon Disulfide	<20	<25	<25	<1	n/a	60
Carbon Tetrachloride	<20	<25	<25	<1	5	n/a
Chlorobenzene	<20	220	31	11	5	n/a
Chloroethane	<20	<25	<25	<1	5	n/a
Chloroform	<20	<25	<25	<1	7	n/a
Chloromethane	<20	<25	<25	<1	5	n/a
cis-1,2-Dichloroethene	<20	<25	<25	<1	5	n/a
Cyclohexane	<20	<25	<25	<1	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017(ug/L)
TestAmerica, Inc.
Methods: SW8260C

Location	SB-36	SB-37S	SB-37D	SB-38	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	3-8	6-11	19-24	6.5-11.5		
Date Collected	10/3/2017	10/3/2017	10/3/2017	10/3/2017		
Time Collected	12:00 PM	10:40 AM	11:25 AM	10:00 AM		
Cyclohexane, methyl-	<20	<25	<25	<1	n/a	n/a
Dibromochloromethane	<20	<25	<25	<1	n/a	**50**
Dibromochloropropane	<20	<25	<25	<1	**0.04**	n/a
Dichlorodifluoromethane	<20	<25	<25	<1	**5**	n/a
Ethylbenzene	<20	<25	<25	<1	**5**	n/a
Freon 113	<20	<25	<25	<1	**5**	n/a
Isopropylbenzene	<20	<25	<25	<1	**5**	n/a
m + p Xylene	<20	<25	<25	<1	**5***	n/a
Methyl acetate	<100	<130	<130	<5	n/a	n/a
Methyl Ethyl Ketone	<100	<130	<130	<5	n/a	**50**
Methylene Chloride	<20	<25	<25	<1	**5**	n/a
o-Xylene	<20	<25	<25	<1	**5**	n/a
Styrene	<20	<25	<25	<1	**5**	n/a
t 1,3 Dichloropropene	<20	<25	<25	<1	n/a	n/a
t butylmethylether	<20	<25	<25	<1	n/a	**10**
Tetrachloroethene	<20	<25	**11 J**	**0.62 J**	**5**	n/a
Toluene	<20	<25	<25	<1	**5**	n/a
trans-1,2-Dichloroethene	<20	<25	<25	<1	**5**	n/a
Trichloroethylene	<20	<25	<25	<1	**5**	n/a
Trichlorofluoromethane	<20	<25	<25	<1	**5**	n/a
Vinyl Chloride	<20	<25	<25	<1	**2**	n/a
Calculated						
Total VOCs	**5,992**	**11,224.40**	**10,755**	**23.22**	n/a	n/a
Total BTEX	<100	**4**	**3**	**2**	n/a	n/a

Notes:
J - Indicates an estimated value below laboratory reporting limits
n/a - not analyzed / not applicable
*** - Standard applies to each isomer separately**

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017(ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-36	SB-37S	SB-37D	SB-38	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	3-8	6-11	19-24	6.5-11.5		
Date Collected	10/3/2017	10/3/2017	10/3/2017	10/3/2017		
Time Collected	12:00 PM	10:40 AM	11:25 AM	10:00 AM		
1,1-Biphenyl	<10	**1.10 J**	**0.80 J**	<10	**5**	n/a
1,2,4,5-Tetrachlorobenzene	**21**	**42**	**34**	<10	n/a	n/a
2,3,4,6-Tetrachlorophenol	<10	<10	<10	<10	n/a	n/a
2,4,5-Trichlorophenol	**0.68 J**	**5.50 J**	**2.30 J**	<10	n/a	n/a
2,4,6-Trichlorophenol	<10	**0.72 J**	<10	<10	n/a	n/a
2,4-Dichlorophenol	<10	<10	<10	<10	**5**	n/a
2,4-Dimethylphenol	<10	<10	<10	<10	n/a	**50**
2,4-Dinitrophenol	<21	<20	<21	<20	n/a	**10**
2,4-Dinitrotoluene	<2.1	<2	<2.1	<2	**5**	n/a
2,6-Dinitrotoluene	<2.1	<2	<2.1	<2	**5**	n/a
2-Chloronaphthalene	<10	<10	<10	<10	n/a	**10**
2-Chlorophenol	<10	<10	<10	<10	n/a	n/a
2-Methyl-4,6-dinitrophenol	<21	<20	<21	<20	n/a	n/a
2-Methylnaphthalene	<10	<10	<10	<10	n/a	n/a
2-Nitroaniline	<10	<10	<10	<10	**5**	n/a
2-Nitrophenol	<10	<10	<10	<10	n/a	n/a
3,3-Dichlorobenzidine	<10	<10	<10	<10	**5**	n/a
3-Nitroaniline	<10	<10	<10	<10	**5**	n/a
4-Bromophenyl-phenylether	<10	<10	<10	<10	n/a	n/a
4-Chloro-3-methylphenol	<10	<10	<10	<10	n/a	n/a
4-Chloroaniline	<10	<10	<10	<10	**5**	n/a
4-Chlorophenyl-phenylether	<10	<10	<10	<10	n/a	n/a
4-Nitroaniline	<10	<10	<10	<10	**5**	n/a
4-Nitrophenol	<21	<20	<21	<20	n/a	n/a
Acenaphthene	<10	<10	<10	<10	n/a	**20**
Acenaphthylene	<10	<10	<10	<10	n/a	n/a
Acetophenone	<10	<10	<10	<10	n/a	n/a
Anthracene	<10	<10	<10	<10	n/a	**50**
Atrazine	<2.1	<2	<2.1	<2	**7.5**	n/a
Benzaldehyde	<10	<10	<10	<10	n/a	n/a
Benzo(a)anthracene	<1	<1	<1	<1	n/a	**0.002**
Benzo(a)pyrene	<1	<1	<1	<1	n/a	n/a
Benzo(b)fluoranthene	<1	<1	<1	<1	n/a	**0.002**
Benzo(g,h,i)perylene	<10	<10	<10	<10	n/a	n/a
Benzo(k)fluoranthene	<1	<1	<1	<1	n/a	**0.002**
bis(2-Chloroethoxy)methane	<10	<10	<10	<10	**5**	n/a
bis(2-Chloroethyl)ether	<1	<1	<1	<1	**1**	n/a
bis(2-Chloroisopropyl)ether	<10	<10	<10	<10	**5**	n/a

Empire Electric
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Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017(ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-36	SB-37S	SB-37D	SB-38	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	3-8	6-11	19-24	6.5-11.5		
Date Collected	10/3/2017	10/3/2017	10/3/2017	10/3/2017		
Time Collected	12:00 PM	10:40 AM	11:25 AM	10:00 AM		
bis(2-Ethylhexyl)phthalate	1.60 J	<2	1.50 J	1.20 J	5	n/a
Butylbenzylphthalate	<10	<10	<10	<10	n/a	50
Caprolactam	<10	<10	<10	<10	n/a	n/a
Carbazole	<10	<10	<10	<10	n/a	n/a
Chrysene	<2.1	<2	<2.1	<2	n/a	0.002
Dibenzo(a,h)anthracene	<1	<1	<1	<1	n/a	n/a
Dibenzofuran	<10	<10	<10	<10	n/a	n/a
Diethylphthalate	<10	<10	<10	<10	n/a	50
Dimethylphthalate	<10	<10	<10	<10	n/a	50
Di-n-butylphthalate	0.91 J	<10	1 J	0.91 J	50	n/a
Di-n-octylphthalate	<10	<10	<10	<10	n/a	50
Fluoranthene	<10	<10	<10	<10	n/a	50
Fluorene	<10	<10	<10	<10	n/a	50
Hexachlorobenzene	<1	<1	<1	<1	0.04	n/a
Hexachlorobutadiene	<1	<1	<1	<1	0.5	n/a
Hexachlorocyclopentadiene	<10	<10	<10	<10	5	n/a
Hexachloroethane	<1	<1	<1	<1	5	n/a
Indeno(1,2,3-cd)pyrene	<1	<1	<1	<1	n/a	0.002
Isophorone	<10	<10	<10	<10	n/a	50
Naphthalene	<10	<10	<10	<10	n/a	10
Nitrobenzene	<1	<1	<1	<1	0.4	n/a
N-Nitrosodi-N-Propylamine	<1	<1	<1	<1	n/a	n/a
N-Nitrosodiphenylamine	<10	<10	<10	<10	n/a	50
o-cresol	<10	<10	<10	<10	n/a	n/a
p-cresol	<10	<10	<10	<10	n/a	n/a
Pentachlorophenol	<21	<20	<21	<20	1.5	n/a
Phenanthrene	<10	<10	<10	<10	n/a	50
Phenol (total)	<10	<10	<10	<10	1	n/a
Pyrene	<10	<10	<10	<10	n/a	50
1,2 Dichlorobenzene	n/a	450 JN !	72 JN !	n/a	3	n/a
1,2,3 Trichlorobenzene	n/a	860 JN !	780 JN !	n/a	5	n/a
1,2,3,4- Tetrachlorobenzene	92 JN !	180 JN !	120 JN !	n/a	n/a	n/a
1,2,4 Trichlorobenzene	480 JN !	n/a	n/a	n/a	5	n/a
1,3 Dichlorobenzene	n/a	280 JN !	62 JN !	n/a	3	n/a
1,3,5-Trichlorobenzene	1,300 JN !	2,300 JN !	2,300 JN !	n/a	n/a	n/a
1,4 Dichlorobenzene	9.90 JN !	490 JN !	180 JN !	n/a	3	n/a
2,5-Dichlorothiophene	n/a	20 JN !	n/a	n/a	n/a	n/a
3-Carene	n/a	n/a	n/a	8.70 JN !	n/a	n/a

Empire Electric
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Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017(ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	SB-36	SB-37S	SB-37D	SB-38	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	3-8	6-11	19-24	6.5-11.5		
Date Collected	10/3/2017	10/3/2017	10/3/2017	10/3/2017		
Time Collected	12:00 PM	10:40 AM	11:25 AM	10:00 AM		
Benzene, 1-Methyl-2-(1Methylethyl)	n/a	n/a	n/a	12 JN !	5	n/a
Chlorobenzene	n/a	130 JN !	14 JN !	n/a	5	n/a
Hexadecanoic Acid	n/a	77 JN !	12 JN !	n/a	n/a	n/a
Octadecanoic Acid	n/a	93 JN !	9.90 JN !	n/a	n/a	n/a
Pentachlorobenzene	n/a	14 JN !	9.90 JN !	n/a	5	n/a
Tert-Amyl-Methyl-Ether	n/a	44 JN !	n/a	n/a	n/a	n/a
Unknown SVOC	n/a	23 J !	16 J !	n/a	n/a	n/a
Unknown SVOC	n/a	23 J !	14 J !	n/a	n/a	n/a
Unknown SVOC	n/a	15 J !	12 J !	n/a	n/a	n/a
Unknown SVOC	n/a	11 J !	10 J !	n/a	n/a	n/a
Unknown SVOC	n/a	11 J !	9.70 J !	n/a	n/a	n/a
Unknown SVOC	n/a	9.90 J !	9.50 J !	n/a	n/a	n/a
Unknown SVOC	n/a	n/a	8.80 J !	n/a	n/a	n/a
Unknown SVOC	n/a	n/a	8 J !	n/a	n/a	n/a
Unknown SVOC	n/a	25 J !	17 J !	n/a	n/a	n/a
Calculated Total SVOCs	1,906.09	5,115.22	3,724.40	22.81	n/a	n/a

Notes:
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
N - Indicates presumptive evidence of a compound
J - Indicates an estimate dvalue below laboratory reporting limits, or value reported as a TIC
n/a - not analyzed / not applicable

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017(ug/L)
TestAmerica, Inc.
Methods: SW8081B

Location	SB-36	SB-37S	SB-37D	SB-38	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	3-8	6-11	19-24	6.5-11.5		
Date Collected	10/3/2017	10/3/2017	10/3/2017	10/3/2017		
Time Collected	12:00 PM	10:40 AM	11:25 AM	10:00 AM		
4,4,-DDT	<0.02	<0.02	<0.02	<0.02	**0.2**	n/a
4,4-DDD	<0.02	<0.02	<0.02	<0.02	**0.3**	n/a
4,4-DDE	<0.02	<0.02	<0.02	<0.02	**0.2**	n/a
Aldrin	<0.02	<0.02	<0.02	<0.02	n/a	n/a
alpha BHC	<0.02	<0.02	<0.02	<0.02	**0.01**	n/a
beta BHC	<0.02	<0.02	<0.02	<0.02	**0.04**	n/a
Chlordane	<0.5	<0.5	<0.5	<0.5	**0.05**	n/a
delta-BHC	<0.02	<0.02	<0.02	<0.02	**0.04**	n/a
Dieldrin	<0.02	<0.02	<0.02	<0.02	**0.004**	n/a
Endosulfan I	<0.02	<0.02	<0.02	<0.02	n/a	n/a
Endosulfan II	<0.02	<0.02	<0.02	<0.02	n/a	n/a
Endosulfan Sulfate	<0.02	<0.02	<0.02	<0.02	n/a	n/a
Endrin	<0.02	<0.02	<0.02	<0.02	n/a	n/a
Endrin Aldehyde	<0.02	<0.02	<0.02	<0.02	**5**	n/a
Endrin ketone	<0.02	<0.02	<0.02	<0.02	**5**	n/a
Gamma-BHC(Lindane)	<0.02	<0.02	<0.02	<0.02	**0.05**	n/a
Heptachlor	<0.02	<0.02	<0.02	<0.02	**0.04**	n/a
Heptachlor Epoxide	<0.02	<0.02	<0.02	<0.02	**0.03**	n/a
Methoxychlor	<0.02	<0.02	<0.02	<0.02	**35**	n/a
Toxaphene	<0.5	<0.5	<0.5	<0.5	**0.06**	n/a

Notes:
n/a - not analyzed / not applicable

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017(ug/L)
TestAmerica, Inc.
Methods: SW6020A, SW7470A, SW9012

Location	SB-36	SB-37S	SB-37D	SB-38	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	3-8	6-11	19-24	6.5-11.5		
Date Collected	10/3/2017	10/3/2017	10/3/2017	10/3/2017		
Time Collected	12:00 PM	10:40 AM	11:25 AM	10:00 AM		
Aluminum	59.2	18.30 J	78.1	246	n/a	n/a
Aluminum, Dissolved	<40	<40	<40	<40	n/a	n/a
Antimony	1.50 J	<2	<2	1.90 J	3	n/a
Antimony, Dissolved	1.10 J	<2	<2	1.50 J	n/a	n/a
Arsenic	1.50 J	9.7	0.68 J	1.60 J	25	n/a
Arsenic, Dissolved	2	5.7	0.69 J	1.60 J	n/a	n/a
Barium	55.3	217	58.1	55.9	1,000	n/a
Barium, Dissolved	55.4	190	61.1	52	n/a	n/a
Beryllium	<0.8	<0.8	<0.8	<0.8	n/a	3
Beryllium, Dissolved	<0.8	<0.8	<0.8	<0.8	n/a	n/a
Cadmium	<2	<2	<2	<2	5	n/a
Cadmium, Dissolved	<2	<2	<2	<2	n/a	n/a
Calcium	46,400	65,000	70,400	57,000	n/a	n/a
Calcium, Dissolved	43,400	60,700	67,700	53,100	n/a	n/a
Chromium (total)	<4	<4	<4	1.60 J	50	n/a
Cobalt	<4	<4	<4	<4	n/a	n/a
Cobalt, Dissolved	<4	<4	<4	<4	n/a	n/a
Copper	3.80 J	10.4	2.20 J	1.90 J	200	n/a
Copper, Dissolved	3.90 J	<4	1.50 J	<4	n/a	n/a
Cyanide	6.9 J	3.3 J	<10	2.5 J	200	n/a
Iron	82.70 J	4,440	1,050	386	300	n/a
Iron (Dissolved)	<120	<120	<120	<120	300	n/a
Lead	0.41 J	4.8	<1.2	0.62 J	25	n/a
Lead, Dissolved	<1.2	<1.2	<1.2	<1.2	n/a	n/a
Magnesium	9,130	10,100	13,200	8,530	n/a	35,000
Magnesium, Dissolved	8,160	9,380	12,200	8,410	n/a	n/a
Manganese	292	1,070	2,210	309	300	n/a
Manganese (Dissolved)	267	970	2,100	276	300	n/a
Mercury	<0.2	<0.2	<0.2	<0.2	0.7	n/a
Mercury, Dissolved	<0.2	<0.2	<0.2	<0.2	n/a	n/a
Nickel	3.60 J	<4	4.7	3.30 J	100	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017(ug/L)
TestAmerica, Inc.
Methods: SW6020A, SW7470A, SW9012

Location	SB-36	SB-37S	SB-37D	SB-38	NYSDEC TOGS111 ClassGA Standard	NYSDEC TOGS111 ClassGA Guidance
Depth (ft BGS)	3-8	6-11	19-24	6.5-11.5		
Date Collected	10/3/2017	10/3/2017	10/3/2017	10/3/2017		
Time Collected	12:00 PM	10:40 AM	11:25 AM	10:00 AM		
Nickel, Dissolved	3.60 J	<4	3.70 J	2.40 J	n/a	n/a
Potassium	22,400	23,400	18,400	13,400	n/a	n/a
Potassium, Dissolved	22,900	22,600	18,200	12,800	n/a	n/a
Selenium	1.90 J	<10	1.30 J	0.92 J	10	n/a
Selenium, Dissolved	2 J	0.74 J	1.60 J	1.30 J	n/a	n/a
Silver	<2	<2	<2	<2	50	n/a
Silver, Dissolved	<2	<2	<2	<2	n/a	n/a
Sodium	36,000	41,800	109,000	56,900	20,000	n/a
Sodium, Dissolved	31,600	40,000	100,000	55,900	n/a	n/a
Thallium	<0.8	<0.8	<0.8	<0.8	n/a	0.5
Thallium, Dissolved	<0.8	<0.8	<0.8	<0.8	n/a	n/a
Vanadium	2.30 J	16.2	<4	3.10 J	n/a	n/a
Vanadium, Dissolved	<4	2 J	<4	2.40 J	n/a	n/a
Zinc	<16	<16	<16	<16	n/a	2,000
Zinc, Dissolved	<16	<16	<16	<16	n/a	n/a

Notes:
J - Indicates an estimate dvalue below laboratory reporting limits
n/a - not analyzed / not applicable
Samples for analysis of dissolved compounds were filtered by the laboratory

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - October 2017
EAR Field Screening

Location	Date Collected	Dissolved Oxygen *mg/L*	Temperature *°C*	pH -	ORP (Oxidation Reduction Potential) *mV*	Conductivity *us/cm*
SB-36	10/3/2017	**1.14**	**15.10**	**8.12**	**70.1**	**562**
SB-37S	10/3/2017	**0.52**	**14.36**	**7.02**	**-96.6**	**706**
SB-37D	10/3/2017	**0.54**	**12.49**	**6.35**	**106.3**	**1,007**
SB-38	10/3/2017	**1.78**	**18.00**	**8.23**	**-190.2**	**800**

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Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Concrete Analytical Results - July-October 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	Depth (inches below grade surface)	Date Collected	Time Collected	Moisture %	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Polybrominnated biphenyls (total)
CB-1_0-3	0-3	7/21/2017	9:10 AM	8.3	<73	<73	<73	<73	<73	<73	170	<73	<73	170
CB-2_0-3	0-3	7/21/2017	9:30 AM	4.2	<70	<70	<70	<70	<70	<70	470	<70	<70	470
CB-3_0-3	0-3	7/21/2017	9:42 AM	12.4	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
CB-4_0-3	0-3	7/21/2017	10:01 AM	0.7	<67	<67	<67	<67	<67	<67	500	<67	<67	500
CB-5_0-3	0-3	7/21/2017	10:45 AM	12.1	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
CB-6_0-3	0-3	7/21/2017	10:55 AM	5.8	<71	<71	<71	<71	<71	<71	690	<71	<71	690
CB-7_0-3	0-3	7/21/2017	11:04 AM	5.5	<71	<71	<71	<71	<71	<71	280	<71	<71	280
CB-8_0-3	0-3	7/21/2017	11:13 AM	7.2	<72	<72	<72	<72	<72	<72	150	<72	<72	140
CB-9_0-3	0-3	7/21/2017	12:08 PM	5.1	<71	<71	<71	<71	<71	<71	140	<71	<71	110
CB-10_0-3	0-3	7/21/2017	12:18 PM	11.8	<38000	<38000	<38000	<38000	<38000	<38000	410,000	<38000	<38000	410,000
CB-10_3-6	3-6	7/21/2017	12:22 PM	7.2	<36000	<36000	<36000	<36000	<36000	<36000	190,000	<36000	<36000	190,000
CB-10R (post scarification)	0-3	8/9/2017	9:35 AM	9.8	<3700	<3700	<3700	<3700	<3700	<3700	45,000	<3700	<3700	44,000
CB-11_0-3	0-3	7/21/2017	12:26 PM	0.2	<67	<67	<67	<67	<67	<67	610	<67	<67	610
CB-12_0-3	0-3	7/21/2017	12:35 PM	5.1	<71	<71	<71	<71	<71	<71	160	<71	<71	160
CB-13_0-3	0-3	7/21/2017	1:22 PM	6.4	<71	<71	<71	<71	<71	<71	43 J	<71	<71	43 J
CB-14_0-3	0-3	7/21/2017	1:33 PM	2.8	<69	<69	<69	<69	<69	<69	480	<69	<69	480
CB-15_0-3	0-3	7/21/2017	1:45 PM	4.5	<70	<70	<70	<70	<70	<70	160	<70	<70	160
CB-16_0-3	0-3	7/25/2017	8:30 AM	3.8	<70	<70	<70	<70	<70	<70	110	<70	<70	110
CB-16_3-6	3-6	7/25/2017	8:35 AM	3.6	<69	<69	<69	<69	<69	<69	140	<69	<69	130
CB-17_0-3	0-3	7/25/2017	8:39 AM	6	<71	<71	<71	<71	<71	<71	94	<71	<71	94
CB-17_3-6	3-6	7/25/2017	8:45 AM	4.7	<70	<70	<70	<70	<70	<70	390	<70	<70	390
CB-18_0-3	0-3	7/25/2017	8:51 AM	5	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
CB-18_3-6	3-6	7/25/2017	8:58 AM	5.4	<71	<71	<71	<71	<71	<71	140	<71	<71	140
CB-19_0-3	0-3	7/25/2017	9:04 AM	1	<68	<68	<68	<68	<68	<68	200	<68	<68	200
CB-19_3-6	3-6	7/25/2017	9:08 AM	<0.1	<67	<67	<67	<67	<67	<67	<67	<67	<67	<67
CB-20_0-3	0-3	7/25/2017	9:11 AM	2.1	<34000	<34000	<34000	<34000	<34000	<34000	550,000	<34000	<34000	550,000
CB-20_3-6	3-6	7/25/2017	9:15 AM	0.6	<13000	<13000	<13000	<13000	<13000	<13000	200,000	<13000	<13000	200,000
CB-20PS_0-3	0-3	9/21/2017	9:50 AM	5.1	<70	<70	<70	<70	<70	<70	280	<70	<70	280
CB-21_0-3	0-3	7/25/2017	9:22 AM	6	<71	<71	<71	<71	<71	<71	180	<71	<71	150
CB-21_3-6	3-6	7/25/2017	9:30 AM	5.5	<71	<71	<71	<71	<71	<71	130	<71	<71	130
CB-22_0-3	0-3	7/25/2017	9:38 AM	4.7	<70000	<70000	<70000	<70000	<70000	<70000	1,100,000	<70000	<70000	1,100,000
CB-22_3-6	3-6	7/25/2017	9:44 AM	4.4	<70000	<70000	<70000	<70000	<70000	<70000	1,000,000	<70000	<70000	1,000,000
CB-22PS_0-3	0-3	9/21/2017	9:30 AM	3.5	<690	<690	<690	<690	<690	<690	7,800	<690	<690	7,800
CB-23_0-3	0-3	7/25/2017	10:45 AM	4.5	<35000	<35000	<35000	<35000	<35000	<35000	310,000	<35000	<35000	310,000
CB-23_3-6	3-6	7/25/2017	10:50 AM	5	<35000	<35000	<35000	<35000	<35000	<35000	620,000	<35000	<35000	620,000
CB-23PS_0-3	0-3	9/21/2017	10:30 AM	6.9	<1400	<1400	<1400	<1400	<1400	<1400	16,000	<1400	<1400	16,000
CB-24_0-3	0-3	7/25/2017	10:57 AM	7.3	<3600	<3600	<3600	<3600	<3600	<3600	67,000	<3600	<3600	67,000
CB-24_3-6	3-6	7/25/2017	11:02 AM	4.6	<35000	<35000	<35000	<35000	<35000	<35000	730,000	<35000	<35000	730,000
CB-24PS_0-3	0-3	9/21/2017	9:10 AM	4.2	<350	<350	<350	<350	<350	<350	2,900	<350	<350	2,900
CB-25_0-3	0-3	7/25/2017	11:09 AM	2	<68	<68	<68	<68	<68	<68	250	<68	<68	250
CB-25_3-6	3-6	7/25/2017	11:14 AM	0.9	<67	<67	<67	<67	<67	<67	340	<67	<67	340
CB-26_0-3	0-3	7/25/2017	11:20 AM	2.4	<69	<69	<69	<69	<69	<69	140	<69	<69	120
CB-26_3-6	3-6	7/25/2017	11:25 AM	0.8	<67	<67	<67	<67	<67	<67	250	<67	<67	250
CB-27_0-3	0-3	7/25/2017	11:31 AM	5.9	<71	<71	<71	<71	<71	<71	230	<71	<71	230
CB-27_3-6	3-6	7/25/2017	11:36 AM	3.1	<69	<69	<69	<69	<69	<69	390	<69	<69	390

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Concrete Analytical Results - July-October 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	Depth (inches below grade surface)	Date Collected	Time Collected	Moisture %	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Polybrominnated biphenyls (total)
CB-28_0-3	**0-3**	**7/25/2017**	**11:42 AM**	**12.4**	<76	<76	<76	<76	<76	<76	**71 J**	<76	<76	**71 J**
CB-28_3-6	**3-6**	**7/25/2017**	**11:49 AM**	**8.2**	<73	<73	<73	<73	<73	<73	**110**	<73	<73	**110**
CB-29_0-3	**0-3**	**7/25/2017**	**12:45 PM**	**3.8**	<7000	<7000	<7000	<7000	<7000	<7000	**110,000**	<7000	<7000	**110,000**
CB-29_3-6	**3-6**	**7/25/2017**	**12:50 PM**	**5.9**	<36000	<36000	<36000	<36000	<36000	<36000	**590,000**	<36000	<36000	**590,000**
CB-29PS_0-3	**0-3**	**9/21/2017**	**8:40 AM**	**3.5**	<140	<140	<140	<140	<140	<140	**1,600**	<140	<140	**1,600**
CB-30_0-3	**0-3**	**7/25/2017**	**12:57 PM**	**4.6**	<14000	<14000	<14000	<14000	<14000	<14000	**130,000**	<14000	<14000	**130,000**
CB-30_3-6	**3-6**	**7/25/2017**	**1:02 PM**	**3.4**	<1700	<1700	<1700	<1700	<1700	<1700	**21,000**	<1700	<1700	**21,000**
CB-30PS_0-3	**0-3**	**9/21/2017**	**8:25 AM**	**3.7**	<14000	<14000	<14000	<14000	<14000	<14000	**160,000**	<14000	<14000	**160,000**
CB-30PS2	**0-3**	**10/3/2017**	**9:30 AM**	**3.1**	<69	<69	<69	<69	<69	<69	**180**	<69	<69	**180**

NYCRR 375-6: Commercial	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**1,000**
NYCRR 375-6: Industrial	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**25,000**
NYCRR 375-6: Unrestricted	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**100**

Notes:
J - Indicates an estimate dvalue below laboratory reporting limits
n/a - not analyzed / not applicable

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Concrete Analytical Results - July-October 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW260C

Location	CB-22_0-3	CB-9_3-6	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (inches below grade)	0-3	3-6			
Date Collected	7/25/2017	7/25/2017			
Time Collected	9:38 AM	12:15 PM			
Moisture, Percent	4.1	5.5			
1,1 Dichloroethane	<2000	<0.86	240,000	480,000	270
1,1 Dichloroethene	<2000	<0.86	500,000	1,000,000	330
1,1,1 Trichloroethane	<2000	<0.86	500,000	1,000,000	680
1,1,2 Trichloroethane	<2000	<0.86	n/a	n/a	n/a
1,1,2,2 Tetrachloroethane	<2000	<0.86	n/a	n/a	n/a
1,2 Dibromoethane	<2000	<0.86	n/a	n/a	n/a
1,2 Dichlorobenzene	1400 J	<0.86	500,000	1,000,000	1,100
1,2 Dichloroethane	<2000	<0.86	30,000	60,000	20
1,2 Dichloropropane	<2000	<0.86	n/a	n/a	n/a
1,2,3 Trichlorobenzene	220,000	<0.86	n/a	n/a	n/a
1,2,4 Trichlorobenzene	610,000	<0.86	n/a	n/a	n/a
1,3 Dichlorobenzene	<2000	<0.86	280,000	560,000	2,400
1,4 Dichlorobenzene	1600 J	<0.86	130,000	250,000	1,800
1,4-Dioxane	<99000	<17	130,000	250,000	100
2-Hexanone	<9900	1 J	n/a	n/a	n/a
4-Methyl-2-Pentanone	<9900	<4.3	n/a	n/a	n/a
Acetone	<9900	44	500,000	1,000,000	50
Benzene	<2000	<0.86	44,000	89,000	60
Bromochloromethane	<2000	<0.86	n/a	n/a	n/a
Bromodichloromethane	<2000	<0.86	n/a	n/a	n/a
Bromoform	<2000	<0.86	n/a	n/a	n/a
Bromomethane	<2000	<0.86	n/a	n/a	n/a
c 1,3 Dichloropropene	<2000	<0.86	n/a	n/a	n/a
Carbon Disulfide	<2000	<0.86	n/a	n/a	n/a
Carbon Tetrachloride	<2000	<0.86	22,000	44,000	760
Chlorobenzene	<2000	<0.86	500,000	1,000,000	1,100
Chloroethane	<2000	<0.86	n/a	n/a	n/a
Chloroform	<2000	<0.86	350,000	700,000	370
Chloromethane	<2000	<0.86	n/a	n/a	n/a
cis-1,2-Dichloroethene	<2000	<0.86	500,000	1,000,000	250

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Concrete Analytical Results - July-October 2017 (ug/Kg)
TestAmerica, Inc.
Methods: SW260C

Location	CB-22_0-3	CB-9_3-6	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (inches below grade)	0-3	3-6			
Date Collected	7/25/2017	7/25/2017			
Time Collected	9:38 AM	12:15 PM			
Moisture, Percent	4.1	5.5			
Cyclohexane	<2000	<0.86	n/a	n/a	n/a
Cyclohexane, methyl-	<2000	<0.86	n/a	n/a	n/a
Dibromochloromethane	<2000	<0.86	n/a	n/a	n/a
Dibromochloropropane	<2000	<0.86	n/a	n/a	n/a
Dichlorodifluoromethane	<2000	<0.86	n/a	n/a	n/a
Ethylbenzene	<2000	<0.86	**390,000**	**780,000**	**1,000**
Freon 113	<2000	<0.86	n/a	n/a	n/a
Isopropylbenzene	<2000	<0.86	n/a	n/a	n/a
m + p Xylene	<2000	<0.86	n/a	n/a	n/a
Methyl acetate	<9900	<4.3	n/a	n/a	n/a
Methyl Ethyl Ketone	<9900	**9**	**500,000**	**1,000,000**	**120**
Methylene Chloride	<2000	**0.30 J**	**500,000**	**1,000,000**	**50**
o-Xylene	<2000	<0.86	n/a	n/a	n/a
Styrene	<2000	<0.86	n/a	n/a	n/a
t 1,3 Dichloropropene	<2000	<0.86	n/a	n/a	n/a
t butylmethylether	<2000	<0.86	**500,000**	**1,000,000**	**930**
Tetrachloroethene	<2000	<0.86	**150,000**	**300,000**	**1,300**
Toluene	<2000	<0.86	**500,000**	**1,000,000**	**700**
trans-1,2-Dichloroethene	<2000	<0.86	**500,000**	**1,000,000**	**190**
Trichloroethylene	<2000	<0.86	**200,000**	**400,000**	**470**
Trichlorofluoromethane	<2000	<0.86	n/a	n/a	**n/a**
Vinyl Chloride	<2000	<0.86	**13,000**	**27,000**	**20**
Calculated					
Total BTEX	<10000	<4.3	n/a	n/a	n/a
Total VOCs	**833,000**	**53.3**	n/a	n/a	n/a
Total Xylenes	<4,000	<1.72	**500,000**	**1,000,000**	**260**

Notes:
J - Indicates an estimated value below laboratory reporting limits
n/a - not analyzed / not applicable

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8082A

Location	MW-01	MW-02	MW-03	MW-05R	MW-08	MW-09	MW-10	MW-12	MW-13	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	10/2/2017	7/27/2017	7/27/2017	10/2/2017	7/24/2017	10/2/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:50 AM	10:45 AM	12:00 PM	9:45 AM	9:35 AM	12:12 PM	1:08 PM		
Aroclor 1016	<0.4	<0.4	<0.4	<4	<0.4	<0.4	<4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1221	<0.4	<0.4	<0.4	<4	<0.4	<0.4	<4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1232	<0.4	<0.4	<0.4	<4	<0.4	<0.4	<4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1242	<0.4	<0.4	<0.4	<4	<0.4	<0.4	<4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1248	<0.4	<0.4	<0.4	<4	<0.4	<0.4	<4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1254	<0.4	<0.4	<0.4	<4	<0.4	<0.4	<4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1260	<0.4	<0.4	<0.4	**6.9**	<0.4	<0.4	**5**	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1262	<0.4	<0.4	<0.4	<4	<0.4	<0.4	<4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1268	<0.4	<0.4	<0.4	<4	<0.4	<0.4	<4	<0.4	<0.4	<0.4	n/a	n/a
Polybrominated biphenyls (total)	<0.4	<0.4	<0.4	**6.9**	<0.4	<0.4	**5**	<0.4	<0.4	<0.4	**5**	n/a

Notes:
n/a - not analyzed / not applicable

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8260C, SW8260C-SIM

Location	MW-01	MW-02	MW-03	MW-05R	MW-08	MW-09	MW-10	MW-12	MW-13	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	10/2/2017	7/27/2017	7/27/2017	10/2/2017	7/24/2017	10/2/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:50 AM	10:45 AM	12:00 PM	9:45 AM	9:35 AM	12:12 PM	1:08 PM		
1,1 Dichloroethane	0.36 J	<1	<1	<25	<1	<1	<10	<1	<1	<1	5	n/a
1,1 Dichloroethene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	5	n/a
1,1,1 Trichloroethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	5	n/a
1,1,2 Trichloroethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	1	n/a
1,1,2,2 Tetrachloroethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	5	n/a
1,2 Dibromoethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	0.001	n/a
1,2 Dichlorobenzene	<1	<1	<1	38	<1	<1	23	<1	<1	0.31 J	3	n/a
1,2 Dichloroethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	0.6	n/a
1,2 Dichloropropane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	1	n/a
1,2,3 Trichlorobenzene	<1	<1	<1	1,400	<1	<1	370	<1	<1	<1	5	n/a
1,2,4 Trichlorobenzene	<1	<1	<1	5,500	<1	<1	2,000	<1	<1	0.30 J	5	n/a
1,3 Dichlorobenzene	<1	<1	<1	89	<1	<1	330	<1	<1	1.1	3	n/a
1,4 Dichlorobenzene	<1	<1	<1	140	<1	<1	95	<1	<1	0.71 J	3	n/a
1,4-Dioxane	0.57	<0.4	<50	<1300	0.72	<0.4	<500	<50	<50	<50	n/a	n/a
2-Hexanone	<5	<5	<5	<130	<5	<5	<50	<5	<5	<5	n/a	50
4-Methyl-2-Pentanone	<5	<5	<5	<130	<5	<5	<50	<5	<5	<5	n/a	n/a
Acetone	<5	<5	<5	<130	<5	<5	<50	<5	<5	<5	n/a	50
Benzene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	1	n/a
Bromochloromethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	5	n/a
Bromodichloromethane	<1	0.19 J	<1	<25	<1	<1	<10	<1	<1	<1	n/a	50
Bromoform	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	n/a	50
Bromomethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	5	n/a
c 1,3 Dichloropropene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	n/a	n/a
Carbon Disulfide	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	n/a	60
Carbon Tetrachloride	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	5	n/a
Chlorobenzene	<1	<1	<1	8.40 J	<1	<1	45	<1	<1	0.85 J	5	n/a
Chloroethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	5	n/a
Chloroform	1.6	3.6	<1	<25	3	0.28 J	<10	1.2	1.7	<1	7	n/a
Chloromethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	5	n/a
cis-1,2-Dichloroethene	0.79 J	<1	<1	<25	<1	<1	<10	<1	0.52 J	<1	5	n/a
Cyclohexane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8260C, SW8260C-SIM

Location	MW-01	MW-02	MW-03	MW-05R	MW-08	MW-09	MW-10	MW-12	MW-13	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	10/2/2017	7/27/2017	7/27/2017	10/2/2017	7/24/2017	10/2/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:50 AM	10:45 AM	12:00 PM	9:45 AM	9:35 AM	12:12 PM	1:08 PM		
Cyclohexane, methyl-	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	n/a	n/a
Dibromochloromethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	n/a	**50**
Dibromochloropropane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**0.04**	n/a
Dichlorodifluoromethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
Ethylbenzene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
Freon 113	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
Isopropylbenzene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
m + p Xylene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5***	n/a
Methyl acetate	<5	<5	<5	<130	<5	<5	<50	<5	<5	<5	n/a	n/a
Methyl Ethyl Ketone	<5	<5	<5	<130	<5	<5	<50	<5	<5	<5	n/a	**50**
Methylene Chloride	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
o-Xylene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
Styrene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
t 1,3 Dichloropropene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	n/a	n/a
t butylmethylether	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	n/a	**10**
Tetrachloroethene	**3**	**6.9**	**1.2**	<25	**1.7**	**5.6**	<10	**2.6**	**9.8**	**0.27 J**	**5**	n/a
Toluene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
trans-1,2-Dichloroethene	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
Trichloroethylene	**5.7**	**0.71 J**	**0.49 J**	<25	**0.23 J**	**0.36 J**	<10	**2.4**	**3.4**	**0.44 J**	**5**	n/a
Trichlorofluoromethane	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**5**	n/a
Vinyl Chloride	<1	<1	<1	<25	<1	<1	<10	<1	<1	<1	**2**	n/a
Calculated												
Total VOCs	**12.02**	**11.4**	**1.69**	**7,175.40**	**5.65**	**6.24**	**2,863**	**6.2**	**15.42**	**3.98**	n/a	n/a
Total BTEX	<5	<5	<5	<125	<5	<5	<50	<5	<5	<5	n/a	n/a

Notes:
J - Indicates an estimate dvalue below laboratory reporting limits
n/a - not analyzed / not applicable
*** - standard applies to each isomer separately**

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	MW-01	MW-02	MW-03	MW-05R	MW-08	MW-09	MW-10	MW-12	MW-13	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	10/2/2017	7/27/2017	7/27/2017	10/2/2017	7/24/2017	10/2/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:50 AM	10:45 AM	12:00 PM	9:45 AM	9:35 AM	12:12 PM	1:08 PM		
1,1-Biphenyl	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**5**	n/a
1,2,4,5-Tetrachlorobenzene	<10	<10	<10	**24**	<10	<10	**10**	<10	<10	<10	n/a	n/a
2,3,4,6-Tetrachlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
2,4,5-Trichlorophenol	<10	<10	<10	**1.80 J**	<10	<10	<10	<10	<10	<10	n/a	n/a
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
2,4-Dichlorophenol	<10	<10	<10	<10	<10	<10	**2.50 J**	<10	<10	<10	**5**	n/a
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
2,4-Dinitrophenol	<20	<21	<20	<21	<21	<20	<20	<20	<21	<20	n/a	**10**
2,4-Dinitrotoluene	<2	<2.1	<2	<2.1	<2.1	<2	<2	<2	<2.1	<2	**5**	n/a
2,6-Dinitrotoluene	<2	<2.1	<2	<2.1	<2.1	<2	<2	<2	<2.1	<2	**5**	n/a
2-Chloronaphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**10**
2-Chlorophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
2-Methyl-4,6-dinitrophenol	<20	<21	<20	<21	<21	<20	<20	<20	<21	<20	n/a	n/a
2-Methylnaphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
2-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**5**	n/a
2-Nitrophenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
3,3-Dichlorobenzidine	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**5**	n/a
3-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**5**	n/a
4-Bromophenyl-phenylether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
4-Chloroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**5**	n/a
4-Chlorophenyl-phenylether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
4-Nitroaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**5**	n/a
4-Nitrophenol	<20	<21	<20	<21	<21	<20	<20	<20	<21	<20	n/a	n/a
Acenaphthene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**20**
Acenaphthylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
Acetophenone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
Anthracene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
Atrazine	<2	<2.1	<2	<2.1	<2.1	<2	<2	<2	<2.1	<2	**7.5**	n/a
Benzaldehyde	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	MW-01	MW-02	MW-03	MW-05R	MW-08	MW-09	MW-10	MW-12	MW-13	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	10/2/2017	7/27/2017	7/27/2017	10/2/2017	7/24/2017	10/2/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:50 AM	10:45 AM	12:00 PM	9:45 AM	9:35 AM	12:12 PM	1:08 PM		
Benzo(a)anthracene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/a	**0.002**
Benzo(a)pyrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/a	n/a
Benzo(b)fluoranthene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/a	**0.002**
Benzo(g,h,i)perylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
Benzo(k)fluoranthene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/a	**0.002**
bis(2-Chloroethoxy)methane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**5**	n/a
bis(2-Chloroethyl)ether	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1**	n/a
bis(2-Chloroisopropyl)ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**5**	n/a
bis(2-Ethylhexyl)phthalate	<2	<2.1	<2	**1.30 J**	<2.1	<2	**1.20 J**	<2	**1.40 J**	**1.20 J**	**5**	n/a
Butylbenzylphthalate	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
Caprolactam	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
Carbazole	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
Chrysene	<2	<2.1	<2	<2.1	<2.1	<2	<2	<2	<2.1	<2	n/a	**0.002**
Dibenzo(a,h)anthracene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/a	n/a
Dibenzofuran	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
Diethylphthalate	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
Dimethylphthalate	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
Di-n-butylphthalate	<10	<10	**1.60 J**	<10	<10	<10	**0.90 J**	<10	<10	<10	**50**	n/a
Di-n-octylphthalate	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
Fluoranthene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
Fluorene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
Hexachlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.04**	n/a
Hexachlorobutadiene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.5**	n/a
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**5**	n/a
Hexachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**5**	n/a
Indeno(1,2,3-cd)pyrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/a	**0.002**
Isophorone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**10**
Nitrobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.4**	n/a
N-Nitrosodi-N-Propylamine	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	n/a	n/a

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	MW-01	MW-02	MW-03	MW-05R	MW-08	MW-09	MW-10	MW-12	MW-13	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	10/2/2017	7/27/2017	7/27/2017	10/2/2017	7/24/2017	10/2/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:50 AM	10:45 AM	12:00 PM	9:45 AM	9:35 AM	12:12 PM	1:08 PM		
N-Nitrosodiphenylamine	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
o-cresol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
p-cresol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	n/a
Pentachlorophenol	<20	<21	<20	<21	<21	<20	<20	<20	<21	<20	**1.5**	n/a
Phenanthrene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
Phenol (total)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**1**	n/a
Pyrene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	n/a	**50**
1,2 Dichlorobenzene	n/a	n/a	n/a	**30 JN !**	n/a	n/a	**21 !**	n/a	n/a	n/a	**3**	n/a
1,2,3 Trichlorobenzene	n/a	n/a	n/a	n/a	n/a	n/a	**160 JN !**	n/a	n/a	n/a	**5**	n/a
1,2,3,4- Tetrachlorobenzene	n/a	n/a	n/a	**62 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,2,3,5-Tetrachlorobenzene	n/a	n/a	n/a	n/a	n/a	n/a	**11 JN !**	n/a	n/a	n/a	n/a	n/a
1,2,4 Trichlorobenzene	n/a	n/a	n/a	**600 JN !**	n/a	n/a	**1,000 !**	n/a	n/a	n/a	**5**	n/a
1,3 Dichlorobenzene	n/a	n/a	n/a	**170 JN !**	n/a	n/a	**280 !**	n/a	n/a	n/a	**3**	n/a
1,3,5-Trichlorobenzene	n/a	n/a	n/a	**1,800 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,4 Dichlorobenzene	n/a	n/a	n/a	**74 JN !**	n/a	n/a	**82 !**	n/a	n/a	n/a	**3**	n/a
2,3,5-Tribromophenol	n/a	n/a	n/a	n/a	**44 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Bisphenol A	n/a	n/a	n/a	n/a	n/a	n/a	**1.40 J !**	n/a	n/a	n/a	n/a	n/a
Unknown SVOC w/ highest conc.	n/a	**69 J !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Calculated Total SVOCs	<562	**69**	**1.6**	**2,763.10**	**44**	<562	**1,570**	<562	**1.4**	**1.2**	n/a	n/a

Notes:
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
N - Indicates presumptive evidence of a compound
J - Indicates an estimated value below laboratory reporting limits, or value reported as a TIC
n/a - not analyzed / not applicable

Empire Electric
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Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW8081B

Location	MW-01	MW-02	MW-03	MW-05R	MW-08	MW-09	MW-10	MW-12	MW-13	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	10/2/2017	7/27/2017	7/27/2017	10/2/2017	7/24/2017	10/2/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:50 AM	10:45 AM	12:00 PM	9:45 AM	9:35 AM	12:12 PM	1:08 PM		
4,4,-DDT	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.2**	n/a
4,4-DDD	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.3**	n/a
4,4-DDE	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.2**	n/a
Aldrin	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	n/a	n/a
alpha BHC	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.01**	n/a
beta BHC	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.04**	n/a
Chlordane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.05**	n/a
delta-BHC	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.04**	n/a
Dieldrin	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.004**	n/a
Endosulfan I	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	n/a	n/a
Endosulfan II	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	n/a	n/a
Endosulfan Sulfate	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	n/a	n/a
Endrin	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	n/a	n/a
Endrin Aldehyde	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**5**	n/a
Endrin ketone	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**5**	n/a
Gamma-BHC(Lindane)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.05**	n/a
Heptachlor	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.04**	n/a
Heptachlor Epoxide	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.03**	n/a
Methoxychlor	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**35**	n/a
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.06**	n/a

Notes:
n/a - not analyzed / not applicable

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW6020A, SW7470A, SW9012

Location	MW-01	MW-02	MW-03	MW-05R	MW-08	MW-09	MW-10	MW-12	MW-13	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	10/2/2017	7/27/2017	7/27/2017	10/2/2017	7/24/2017	10/2/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:50 AM	10:45 AM	12:00 PM	9:45 AM	9:35 AM	12:12 PM	1:08 PM		
Aluminum	<40	73.4	86.6	130	37.40 J	86.7	113	48	55.7	33.80 J	n/a	n/a
Aluminum, Dissolved	n/a	n/a	n/a	<40	n/a	n/a	<40	n/a	<40	n/a	n/a	n/a
Antimony	<2	1 J	<2	0.64 J	<2	<2	0.67 J	<2	<2	0.95 J	3	n/a
Antimony, Dissolved	n/a	n/a	n/a	<2	n/a	n/a	<2	n/a	<2	n/a	n/a	n/a
Arsenic	<2	<2	<2	<2	<2	<2	5.4	<2	<2	<2	25	n/a
Arsenic, Dissolved	n/a	n/a	n/a	1.10 J	n/a	n/a	2.2	n/a	<2	n/a	n/a	n/a
Barium	99.8	128	58.3	89	158	290	384	185	90.8	123	1,000	n/a
Barium, Dissolved	n/a	n/a	n/a	91.5	n/a	n/a	360	n/a	84.2	n/a	n/a	n/a
Beryllium	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	n/a	3
Beryllium, Dissolved	n/a	n/a	n/a	<0.8	n/a	n/a	<0.8	n/a	<0.8	n/a	n/a	n/a
Cadmium	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5	n/a
Cadmium, Dissolved	n/a	n/a	n/a	<2	n/a	n/a	<2	n/a	<2	n/a	n/a	n/a
Calcium	60,200	59,100	120,000	65,000	75,000	104,000	39,600	101,000	45,200	118,000	n/a	n/a
Calcium, Dissolved	n/a	n/a	n/a	64,700	n/a	n/a	38,700	n/a	43,800	n/a	n/a	n/a
Chromium (total)	<4	9.7	<4	<4	73.5	2 J	<4	12.3	5.5	3.40 J	50	n/a
Chromium, Dissolved	n/a	n/a	n/a	<4	n/a	n/a	<4	n/a	5.2	n/a	n/a	n/a
Cobalt	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	n/a	n/a
Cobalt, Dissolved	n/a	n/a	n/a	<4	n/a	n/a	<4	n/a	<4	n/a	n/a	n/a
Copper	<4	2 J	5.4	<4	3.40 J	<4	4.9	<4	<4	<4	200	n/a
Copper, Dissolved	n/a	n/a	n/a	<4	n/a	n/a	<4	n/a	<4	n/a	n/a	n/a
Cyanide	<10	11	2.4 J	2 J	<10	2.1 J	<10	2.4 J	<10	<10	200	n/a
Iron	<120	135	478	188	122	128	4,850	75.60 J	59.70 J	57.10 J	300	n/a
Iron, Dissolved	n/a	n/a	n/a	<120	n/a	n/a	<120	n/a	<120	n/a	300	n/a
Lead	<1.2	<1.2	4.6	<1.2	<1.2	<1.2	2.7	<1.2	0.45 J	<1.2	25	n/a
Lead, Dissolved	n/a	n/a	n/a	<1.2	n/a	n/a	<1.2	n/a	<1.2	n/a	n/a	n/a
Magnesium	20,700	7,340	30,900	10,500	21,500	17,800	11,500	37,300	12,400	22,900	n/a	35,000
Magnesium, Dissolved	n/a	n/a	n/a	11,200	n/a	n/a	11,900	n/a	12,200	n/a	n/a	n/a
Manganese	63.7	13.6	360	2,480	6.20 J	5.20 J	1,080	4.60 J	184	4.30 J	300	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ug/L)
TestAmerica, Inc.
Methods: SW6020A, SW7470A, SW9012

Location	MW-01	MW-02	MW-03	MW-05R	MW-08	MW-09	MW-10	MW-12	MW-13	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	10/2/2017	7/27/2017	7/27/2017	10/2/2017	7/24/2017	10/2/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:50 AM	10:45 AM	12:00 PM	9:45 AM	9:35 AM	12:12 PM	1:08 PM		
Manganese, Dissolved	n/a	n/a	n/a	**2,390**	n/a	n/a	**1,000**	n/a	**74.7**	n/a	**300**	n/a
Mercury	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**0.7**	n/a
Mercury, Dissolved	n/a	n/a	n/a	<0.2	n/a	n/a	<0.2	n/a	<0.2	n/a	n/a	n/a
Nickel	<4	<4	**1.60 J**	**2.50 J**	**5.6**	**4.2**	**2.90 J**	**3.20 J**	<4	<4	**100**	n/a
Nickel, Dissolved	n/a	n/a	n/a	**2.40 J**	n/a	n/a	**2.30 J**	n/a	<4	n/a	n/a	n/a
Potassium	**4,070**	**8,020**	**27,500**	**12,400**	**6,380**	**9,050**	**11,600**	**5,690**	**4,830**	**24,000**	n/a	n/a
Potassium, Dissolved	n/a	n/a	n/a	**12,200**	n/a	n/a	**12,000**	n/a	**4,800**	n/a	n/a	n/a
Selenium	**1.40 J**	<10	**3.70 J**	<10	<10	**0.90 J**	<10	**1.60 J**	**1.20 J**	**8.50 J**	**10**	n/a
Selenium, Dissolved	n/a	n/a	n/a	<10	n/a	n/a	<10	n/a	**1.40 J**	n/a	n/a	n/a
Silver	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**50**	n/a
Silver, Dissolved	n/a	n/a	n/a	<2	n/a	n/a	<2	n/a	<2	n/a	n/a	n/a
Sodium	**156,000**	**1,060,000**	**101,000**	**202,000**	**93,900**	**541,000**	**48,000**	**228,000**	**163,000**	**106,000**	**20,000**	n/a
Sodium, Dissolved	n/a	n/a	n/a	**223,000**	n/a	n/a	**56,500**	n/a	**163,000**	n/a	n/a	n/a
Thallium	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	n/a	**0.5**
Thallium, Dissolved	n/a	n/a	n/a	<0.8	n/a	n/a	<0.8	n/a	<0.8	n/a	n/a	n/a
Vanadium	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	n/a	n/a
Vanadium, Dissolved	n/a	n/a	n/a	<4	n/a	n/a	<4	n/a	<4	n/a	n/a	n/a
Zinc	<16	<16	**30.7**	<16	<16	<16	**12.20 J**	<16	<16	<16	n/a	**2,000**
Zinc, Dissolved	n/a	n/a	n/a	<16	n/a	n/a	<16	n/a	<16	n/a	n/a	n/a

Notes:
J - Indicates an estimate dvalue below laboratory reporting limits
n/a - not analyzed / not applicable
Samples for analysis of dissolved compounds were filtered by the laboratory

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017 (ng/L)
TestAmerica, Inc.
Methods: Modified EPA 537

Location	MW-01	MW-02	MW-03	MW-08	MW-09	MW-12	MW-14	TOGS111 ClassGA Standard	TOGS111 ClassGA Guidance
Date Collected	7/27/2017	7/27/2017	7/24/2017	7/27/2017	7/27/2017	7/24/2017	7/24/2017		
Time Collected	9:10 AM	8:08 AM	12:05 PM	10:45 AM	12:00 PM	9:35 AM	1:08 PM		
Perfluorobutanesulfonic acid (PFBS)	<2	<2	4.85	3.75	<2	2.24	7.04	n/a	n/a
Perfluoroheptanoic acid (PFHpA)	15.8	9.26	2.88	21.3	34.3	12.2	20.1	n/a	n/a
Perfluorohexanesulfonic acid (PFHxS)	7.27	3.11	3.61	5.41	3.64	3.49	3.1	n/a	n/a
perfluorononanoic acid (PFNA)	<2	2.81	3.9	0.93 J	2.81	<2	5.93	n/a	n/a
perfluorooctanesulfonic acid (PFOS)	3.64	61.1	42	6.86	22.3	2.97	37.7	n/a	n/a
perfluorooctanoic acid (PFOA)	90.6	116	81.1	146	253	72	224	n/a	n/a
Calculated Total PFC's	117.31	192.28	135.34	184.25	316.05	92.9	297.87	n/a	n/a

Notes:
n/a - not analyzed / not applicable

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results - Monitoring Wells, July-October 2017
EAR Field Screening

Location	Date Collected	Dissolved Oxygen *mg/L*	Temperature *°C*	pH -	ORP (Oxidation Reduction Potential) *mV*	Conductivity *us/cm*
MW-01	7/27/2017	**1.48**	**17.91**	**4.90**	**72.8**	**1,103**
MW-02	7/27/2017	**1.71**	**16.68**	**5.72**	**47.6**	**4,293**
MW-03	7/24/2017	**1.31**	**15.19**	**6.72**	**63.2**	**1,124**
MW-05R	10/2/2017	**0.97**	**18.08**	**7.21**	**-114.3**	**1,331**
MW-08	7/27/2017	**1.71**	**16.56**	**4.59**	**81.0**	**947**
MW-09	7/27/2017	**2.86**	**18.19**	**5.03**	**85.7**	**2,991**
MW-10	10/2/2017	**1.69**	**17.31**	**6.95**	**-91.2**	**514**
MW-12	7/24/2017	**2.68**	**17.84**	**5.96**	**112.8**	**1,685**
MW-13	10/2/2017	**1.56**	**18.35**	**6.65**	**85.8**	**1,058**
MW-14	7/24/2017	**1.76**	**15.25**	**7.20**	**31.3**	**1,001**

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Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Sampling - Monitoring Wells, July-October 2017

EAR Field Screening

Depth-to-Water

Location	Date Collected	Time Collected	Depth-to-Water (ft BGS)
MW-01	7/27/2017	9:10 AM	**20.97**
MW-02	7/27/2017	8:08 AM	**20.42**
MW-03	7/24/2017	12:05 PM	**16.38**
MW-05R	10/2/2017	10:50 AM	**12.77**
MW-08	7/27/2017	10:45 AM	**20.29**
MW-09	7/27/2017	12:00 PM	**18.54**
MW-10	10/2/2017	9:45 AM	**13.69**
MW-12	7/24/2017	9:35 AM	**18.98**
MW-13	10/2/2017	12:12 PM	**17.23**
MW-14	7/24/2017	1:08 PM	**15.81**

All readings collected from top of north side of well casing

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

MW-05R - Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	MW-05R	MW-05R	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	11-13	19-21			
Date Collected	9/25/2017	9/25/2017			
Time Collected	10:10 AM	10:45 AM			
Moisture (%)	12.9	21.8			
Aroclor 1016	<77	<86000	n/a	n/a	n/a
Aroclor 1221	<77	<86000	n/a	n/a	n/a
Aroclor 1232	<77	<86000	n/a	n/a	n/a
Aroclor 1242	<77	<86000	n/a	n/a	n/a
Aroclor 1248	<77	<86000	n/a	n/a	n/a
Aroclor 1254	<77	<86000	n/a	n/a	n/a
Aroclor 1260	55 J	1,200,000	n/a	n/a	n/a
Aroclor 1262	<77	<86000	n/a	n/a	n/a
Aroclor 1268	<77	<86000	n/a	n/a	n/a
Polybrominated biphenyls (total)	55 J	1,200,000	1,000	25,000	100

Notes:
J - Indicates and estimated value below laboratory reporting limit
n/a - Not applicable or not analyzed

Empire Electric
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Brooklyn, NY
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

MW-05R - Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	MW-05R	MW-05R	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	11-13	19-21			
Date Collected	9/25/2017	9/25/2017			
Time Collected	10:10 AM	10:45 AM			
Moisture (%)	12.9	21.8			
1,1 Dichloroethane	<0.83	<2000	240,000	480,000	270
1,1 Dichloroethene	<0.83	<2000	500,000	1,000,000	330
1,1,1 Trichloroethane	<0.83	<2000	500,000	1,000,000	680
1,1,2 Trichloroethane	<0.83	<2000	n/a	n/a	n/a
1,1,2,2 Tetrachloroethane	<0.83	<2000	n/a	n/a	n/a
1,2 Dibromoethane	<0.83	<2000	n/a	n/a	n/a
1,2 Dichlorobenzene	<0.83	910 J	500,000	1,000,000	1,100
1,2 Dichloroethane	<0.83	<2000	30,000	60,000	20
1,2 Dichloropropane	<0.83	<2000	n/a	n/a	n/a
1,2,3 Trichlorobenzene	<0.83	110,000	n/a	n/a	n/a
1,2,4 Trichlorobenzene	<0.83	510,000	n/a	n/a	n/a
1,3 Dichlorobenzene	<0.83	1,700 J	280,000	560,000	2,400
1,4 Dichlorobenzene	<0.83	3,200	130,000	250,000	1,800
1,4-Dioxane	<17	<100000	130,000	250,000	100
2-Hexanone	<4.1	<10000	n/a	n/a	n/a
4-Methyl-2-Pentanone	<4.1	<10000	n/a	n/a	n/a
Acetone	78	<10000	500,000	1,000,000	50
Benzene	<0.83	<2000	44,000	89,000	60
Bromochloromethane	<0.83	<2000	n/a	n/a	n/a
Bromodichloromethane	<0.83	<2000	n/a	n/a	n/a
Bromoform	<0.83	<2000	n/a	n/a	n/a
Bromomethane	<0.83	<2000	n/a	n/a	n/a
c 1,3 Dichloropropene	<0.83	<2000	n/a	n/a	n/a
Carbon Disulfide	<0.83	<2000	n/a	n/a	n/a
Carbon Tetrachloride	<0.83	<2000	22,000	44,000	760
Chlorobenzene	<0.83	<2000	500,000	1,000,000	1,100
Chloroethane	<0.83	<2000	n/a	n/a	n/a
Chloroform	<0.83	<2000	350,000	700,000	370
Chloromethane	<0.83	<2000	n/a	n/a	n/a
cis-1,2-Dichloroethene	<0.83	<2000	500,000	1,000,000	250

Empire Electric
5200 1st Avenue
Brooklyn, NY
Site # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

MW-05R - Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	MW-05R	MW-05R	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	11-13	19-21			
Date Collected	9/25/2017	9/25/2017			
Time Collected	10:10 AM	10:45 AM			
Moisture (%)	12.9	21.8			
Cyclohexane	<0.83	<2000	n/a	n/a	n/a
Cyclohexane, methyl-	<0.83	<2000	n/a	n/a	n/a
Dibromochloromethane	<0.83	<2000	n/a	n/a	n/a
Dibromochloropropane	<0.83	<2000	n/a	n/a	n/a
Dichlorodifluoromethane	<0.83	<2000	n/a	n/a	n/a
Ethylbenzene	<0.83	<2000	**390,000**	**780,000**	**1,000**
Freon 113	<0.83	<2000	n/a	n/a	n/a
Isopropylbenzene	<0.83	<2000	n/a	n/a	n/a
m + p Xylene	**0.46 J**	<2000	n/a	n/a	n/a
Methyl acetate	<4.1	<10000	n/a	n/a	n/a
Methyl Ethyl Ketone	**5.5**	<10000	**500,000**	**1,000,000**	**120**
Methylene Chloride	<0.83	<2000	**500,000**	**1,000,000**	**50**
o-Xylene	**0.22 J**	<2000	n/a	n/a	n/a
Styrene	<0.83	<2000	n/a	n/a	n/a
t 1,3 Dichloropropene	<0.83	<2000	n/a	n/a	n/a
t butylmethylether	**0.13 J**	<2000	**500,000**	**1,000,000**	**930**
Tetrachloroethene	<0.83	<2000	**150,000**	**300,000**	**1,300**
Toluene	<0.83	<2000	**500,000**	**1,000,000**	**700**
trans-1,2-Dichloroethene	<0.83	<2000	**500,000**	**1,000,000**	**190**
Trichloroethylene	<0.83	<2000	**200,000**	**400,000**	**470**
Trichlorofluoromethane	<0.83	<2000	n/a	n/a	**n/a**
Vinyl Chloride	<0.83	<2000	**13,000**	**27,000**	**20**
(1S,4S)-(-)-Camphor	**8.90 JN !**	n/a	n/a	n/a	n/a
1,2,3,4- Tetrachlorobenzene	n/a	**19,000 JN !**	n/a	n/a	n/a
1,2,4,5-Tetrachlorobenzene	n/a	**24,000 JN !**	n/a	n/a	n/a
1,3,3-Trimethylbicyclo[2.2.1]heptan-2-one	**9.70 JN !**	n/a	n/a	n/a	n/a
1-Methyl-4-(1-methylethyl)-cyclohexene	**9.50 JN !**	n/a	n/a	n/a	n/a
1-Methyl-4-propan-2-ylidenecyclohexene	**7.20 JN !**	n/a	n/a	n/a	n/a
1R-,alpha.-Pinene	**350 JN !**	n/a	n/a	n/a	n/a
2 Methylbutane	**4.80 JN !**	n/a	n/a	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

MW-05R - Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	MW-05R	MW-05R	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	11-13	19-21			
Date Collected	9/25/2017	9/25/2017			
Time Collected	10:10 AM	10:45 AM			
Moisture (%)	12.9	21.8			
Benzene, 1-Methyl-2-(1Methylethyl)	84 JN !	n/a	n/a	n/a	n/a
Cyclohexene, 4-methyl-1-(1-methylethyl)	7.20 JN !	n/a	n/a	n/a	n/a
D-Limonene	22 JN !	n/a	n/a	n/a	n/a
Calculated					
Total BTEX	0.68 J	<10000	n/a	n/a	n/a
Total VOCs	587.6	668,810	n/a	n/a	n/a
Total Xylenes	0.68 J	<4000	500,000	1,000,000	260

Notes:
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
N - Indicates presumptive evidence of a compound
J - Indicates an estimated value below laboratory reporting limits, or value reported as a TIC
n/a - not analyzed / not applicable

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

MW-05R - Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	MW-05R	MW-05R	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	11-13	19-21			
Date Collected	9/25/2017	9/25/2017			
Time Collected	10:10 AM	10:45 AM			
Moisture (%)	12.9	21.8			
1,1-Biphenyl	<380	<420	n/a	n/a	n/a
1,2,4,5-Tetrachlorobenzene	<380	**6,400**	n/a	n/a	n/a
2,3,4,6-Tetrachlorophenol	<380	<420	n/a	n/a	n/a
2,4,5-Trichlorophenol	<380	<420	n/a	n/a	n/a
2,4,6-Trichlorophenol	<150	<170	n/a	n/a	n/a
2,4-Dichlorophenol	<150	<170	n/a	n/a	n/a
2,4-Dimethylphenol	<380	<420	n/a	n/a	n/a
2,4-Dinitrophenol	<300	<340	n/a	n/a	n/a
2,4-Dinitrotoluene	<77	<86	n/a	n/a	n/a
2,6-Dinitrotoluene	<77	<86	n/a	n/a	n/a
2-Chloronaphthalene	<380	<420	n/a	n/a	n/a
2-Chlorophenol	<380	<420	n/a	n/a	n/a
2-Methyl-4,6-dinitrophenol	<300	<340	n/a	n/a	n/a
2-Methylnaphthalene	<380	<420	n/a	n/a	n/a
2-Nitroaniline	<380	<420	n/a	n/a	n/a
2-Nitrophenol	<380	<420	n/a	n/a	n/a
3,3-Dichlorobenzidine	<150	<170	n/a	n/a	n/a
3-Nitroaniline	<380	<420	n/a	n/a	n/a
4-Bromophenyl-phenylether	<380	<420	n/a	n/a	n/a
4-Chloro-3-methylphenol	<380	<420	n/a	n/a	n/a
4-Chloroaniline	<380	<420	n/a	n/a	n/a
4-Chlorophenyl-phenylether	<380	<420	n/a	n/a	n/a
4-Nitroaniline	<380	<420	n/a	n/a	n/a
4-Nitrophenol	<770	<860	n/a	n/a	n/a
Acenaphthene	**37 J**	<420	**500,000**	**1,000,000**	**20,000**
Acenaphthylene	<380	<420	**500,000**	**1,000,000**	**100,000**
Acetophenone	<380	<420	n/a	n/a	n/a
Anthracene	**110 J**	<420	**500,000**	**1,000,000**	**100,000**
Atrazine	<150	<170	n/a	n/a	n/a
Benzaldehyde	<380	<420	n/a	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

MW-05R - Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	MW-05R	MW-05R	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	11-13	19-21			
Date Collected	9/25/2017	9/25/2017			
Time Collected	10:10 AM	10:45 AM			
Moisture (%)	12.9	21.8			
Benzo(a)anthracene	640	<42	5,600	11,000	1,000
Benzo(a)pyrene	730	<42	1,000	1,100	1,000
Benzo(b)fluoranthene	840	41 J	5,600	11,000	1,000
Benzo(g,h,i)perylene	310 J	<420	500,000	1,000,000	100,000
Benzo(k)fluoranthene	270	<42	56,000	110,000	800
bis(2-Chloroethoxy)methane	<380	<420	n/a	n/a	n/a
bis(2-Chloroethyl)ether	<38	<42	n/a	n/a	n/a
bis(2-Chloroisopropyl)ether	<380	<420	n/a	n/a	n/a
bis(2-Ethylhexyl)phthalate	120 J	<420	n/a	n/a	n/a
Butylbenzylphthalate	<380	<420	n/a	n/a	n/a
Caprolactam	<380	<420	n/a	n/a	n/a
Carbazole	15 J	<420	n/a	n/a	n/a
Chrysene	620	<420	56,000	110,000	1,000
Dibenzo(a,h)anthracene	94	<42	560	1,100	330
Dibenzofuran	15 J	<420	350,000	1,000,000	7,000
Diethylphthalate	<380	<420	n/a	n/a	n/a
Dimethylphthalate	<380	<420	n/a	n/a	n/a
Di-n-butylphthalate	16 J	<420	n/a	n/a	n/a
Di-n-octylphthalate	<380	<420	n/a	n/a	n/a
Fluoranthene	1,000	35 J	500,000	1,000,000	100,000
Fluorene	24 J	<420	500,000	1,000,000	30,000
Hexachlorobenzene	<38	390	6,000	12,000	330
Hexachlorobutadiene	<77	<86	n/a	n/a	n/a
Hexachlorocyclopentadiene	<380	<420	n/a	n/a	n/a
Hexachloroethane	<38	<42	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene	400	<42	5,600	11,000	500
Isophorone	<150	<170	n/a	n/a	n/a
Naphthalene	12 J	<420	500,000	1,000,000	12,000
Nitrobenzene	<38	<42	n/a	n/a	n/a
N-Nitrosodi-N-Propylamine	<38	<42	n/a	n/a	n/a

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

MW-05R - Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	MW-05R	MW-05R	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	11-13	19-21			
Date Collected	9/25/2017	9/25/2017			
Time Collected	10:10 AM	10:45 AM			
Moisture (%)	12.9	21.8			
N-Nitrosodiphenylamine	<380	<420	n/a	n/a	n/a
o-cresol	<380	<420	500,000	1,000,000	330
p-cresol	<380	<420	500,000	1,000,000	330
Pentachlorophenol	<300	<340	6,700	55,000	800
Phenanthrene	480	64 J	500,000	1,000,000	100,000
Phenol (total)	<380	<420	500,000	1,000,000	330
Pyrene	1,100	25 J	500,000	1,000,000	100,000
1,2,3 Trichlorobenzene	n/a	14,000 JN !	n/a	n/a	n/a
1,2,3,5-Tetrachlorobenzene	n/a	8,200 JN !	n/a	n/a	n/a
1,2,4 Trichlorobenzene	n/a	40,000 JN !	n/a	n/a	n/a
1R-,alpha.-Pinene	340 JN !	n/a	n/a	n/a	n/a
2,6,10,14-Tetramethyl pentadeca	n/a	5,700 JN !	n/a	n/a	n/a
Benzo[e]pyrene	470 JN !	n/a	n/a	n/a	n/a
Unknown SVOC w/ 2nd highest conc.	370 J !	7,100 J !	n/a	n/a	n/a
Unknown SVOC w/ 3rd Highest Conc.	n/a	6,600 J !	n/a	n/a	n/a
Unknown SVOC w/ 3rd Highest Conc.	n/a	5,400 J !	n/a	n/a	n/a
Unknown SVOC w/ Highest Conc.	640 J !	10,000 J !	n/a	n/a	n/a
Calculated Total SVOC's	8,653	103,955	n/a	n/a	n/a

Notes:
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
N - Indicates presumptive evidence of a compound
J - Indicates an estimated value below laboratory reporting limits, or value reported as a TIC
n/a - not analyzed / not applicable

Empire Electric
5200 1st Avenue
Brooklyn, NY
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

MW-05R - Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8081B

Location	MW-05R	MW-05R	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	11-13	19-21			
Date Collected	9/25/2017	9/25/2017			
Time Collected	10:10 AM	10:45 AM			
Moisture (%)	12.9	21.8			
4,4,-DDT	<7.7	<170	47,000	94,000	3.3
4,4-DDD	<7.7	<170	92,000	180,000	3.3
4,4-DDE	<7.7	<170	62,000	120,000	3.3
Aldrin	<7.7	<170	680	1,400	5
alpha BHC	<2.3	<51	3,400	6,800	20
beta BHC	<2.3	<51	3,000	14,000	36
Chlordane	<77	<1700	n/a	n/a	n/a
delta-BHC	<2.3	<51	500,000	1,000,000	40
Dieldrin	<2.3	<51	1,400	2,800	5
Endosulfan I	<7.7	<170	200,000	920,000	2,400
Endosulfan II	<7.7	<170	200,000	920,000	2,400
Endosulfan Sulfate	<7.7	<170	200,000	920,000	2,400
Endrin	<7.7	<170	89,000	410,000	14
Endrin Aldehyde	<7.7	<170	n/a	n/a	n/a
Endrin ketone	<7.7	<170	n/a	n/a	n/a
Gamma-BHC(Lindane)	<2.3	<51	9,200	23,000	100
Heptachlor	<7.7	<170	15,000	29,000	42
Heptachlor Epoxide	<7.7	<170	n/a	n/a	n/a
Methoxychlor	<7.7	<170	n/a	n/a	n/a
Toxaphene	<77	<1700	n/a	n/a	n/a

Notes:
n/a - Not applicable

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

MW-05R - Soil Analytical Results (mg/Kg)
TestAmerica, Inc.
Methods: SW6010C, SW7471B, SW9012

Location	MW-05R	MW-05R	NYCRR 375-6: Commercial	NYCRR 375-6: Industrial	NYCRR 375-6: Unrestricted
Depth (ft BGS)	11-13	19-21			
Date Collected	9/25/2017	9/25/2017			
Time Collected	10:10 AM	10:45 AM			
Moisture (%)	12.9	21.8			
Aluminum	3,160	3,270	n/a	n/a	n/a
Antimony	<4.4	<4.8	n/a	n/a	n/a
Arsenic	4.4	4.6	16	16	13
Barium	22.40 J	11.40 J	400	10,000	350
Beryllium	0.35 J	0.45 J	590	2,700	7.2
Cadmium	<0.88	<0.97	9.3	60	2.5
Calcium	699 J	442 J	n/a	n/a	n/a
Chromium (total)	9.1	10.6	n/a	n/a	n/a
Cobalt	5.10 J	6.10 J	n/a	n/a	n/a
Copper	11.6	6	270	10,000	50
Cyanide	<1	<1.2	27	10,000	27
Iron	12,300	13,800	n/a	n/a	n/a
Lead	17.4	4.7	1,000	3,900	63
Magnesium	1,900	901 J	n/a	n/a	n/a
Manganese	232	118	10,000	10,000	1,600
Mercury	0.05	<0.02	2.8	5.7	0.18
Nickel	20.7	11.1	310	10,000	30
Potassium	592 J	750 J	n/a	n/a	n/a
Selenium	<4.4	<4.8	1,500	6,800	3.9
Silver	<2.2	<2.4	1,500	6,800	2
Sodium	128 J	110 J	n/a	n/a	n/a
Thallium	<4.4	<4.8	n/a	n/a	n/a
Vanadium	12.6	15.2	n/a	n/a	n/a
Zinc	33.6	37	10,000	10,000	109

Notes:
J - Indicates and estimated value below laboratory reporting limit
n/a - Not applicable or not analyzed

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Well Coordinates (NY LISP)
EAR Survey

Well ID	Easting (ft) Northing (ft)	Riser Elevation (ft)	Manhole Elevation (ft)
MW-01	978505.60 175752.83	24.60	25.10
MW-02	978557.73 175814.71	23.92	24.21
MW-03	978448.28 175935.63	20.03	20.59
MW-05R	978243.30 176094.93	15.96	16.17
MW-08	978593.16 175746.45	**	24.50
MW-09	978679.56 175866.00	**	22.67
MW-10	978228.19 176127.59	14.48	14.60
MW-12	978543.13 175865.14	22.42	22.61
MW-13	978471.53 175916.34	20.65	20.86
MW-14	978410.83 175968.16	19.44	19.83

Notes:
Arbitrary elevation datum used - based on USGS National Map land elevation at initial survey station.
** - Elevation data for manhole cover is shown as these locations were not selected for tie-in.

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Survey Locations (NY LISP)
Downgradient Features
EAR Survey

Station ID	Easting (ft) Northing (ft)	Elevation (ft)
Curbline-1	978217.80 176172.80	14.51
Curbline-2	978193.50 176153.80	14.38
Curbline-3	978136.40 176214.60	12.85
Curbline-4	978155.20 176237.70	13.15
Curbline-5	978124.40 176266.10	12.53
Curbline-6	978106.00 176241.00	12.39
Curbline-7	978003.50 176363.50	10.11
Curbline-8	977898.70 176404.50	9.16
Curbline-9	977939.90 176414.90	9.3
Manhole Cover	978069.40 176293.60	11.15

Notes:
Arbitrary elevation datum used - based on USGS National Map land elevation at initial survey station.

FIGURES

Figure 1: Site Location Map
Figure 2: Site Map - Former Empire Electric Building Footprint
Figure 3: Soil Analytical Results – Soil Borings, July-September 2017 (PCBs)
Figure 4: Soil Analytical Results – Soil Borings, July-September 2017 (VOCs)
Figure 5: Soil Analytical Results – Soil Borings, July-September 2017 (SVOCs)
Figure 6: Groundwater Analytical Results – Temporary Wells, July-Oct 2017 (PCBs)
Figure 7: Groundwater Analytical Results – Temporary Wells, July-Oct 2017 (VOCs)
Figure 8: Groundwater Analytical Results – Temporary Wells, July-Oct 2017 (SVOCs)
Figure 9: Groundwater Analytical Results – Temporary Wells, July-Oct 2017 (Metals)
Figure 10: Groundwater Analytical Results – Temporary Wells, July-Oct 2017 (PFCs)
Figure 11: Concrete Analytical Results, July-October 2017 (PCBs)
Figure 12: Concrete Analytical Results, July-October 2017 (VOCs)
Figure 13: Groundwater Analytical Results – Monitoring Wells, July-Oct 2017 (PCBs)
Figure 14: Groundwater Analytical Results – Monitoring Wells, July-Oct 2017 (VOCs, SVOCs)
Figure 15: Groundwater Analytical Results – Monitoring Wells, July-Oct 2017 (Metals)
Figure 16: EAR Survey

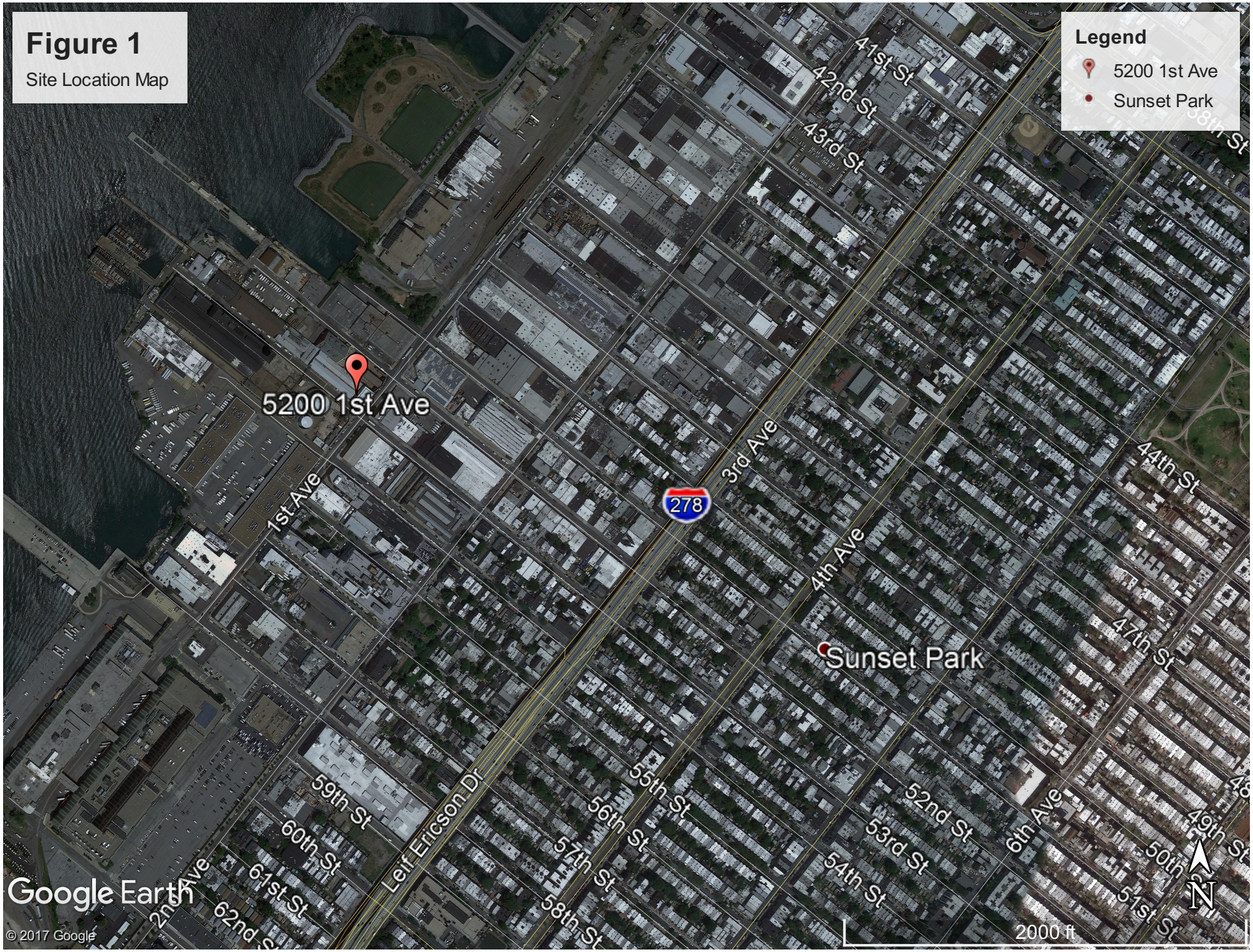
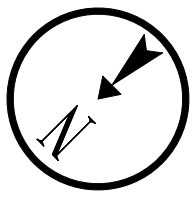
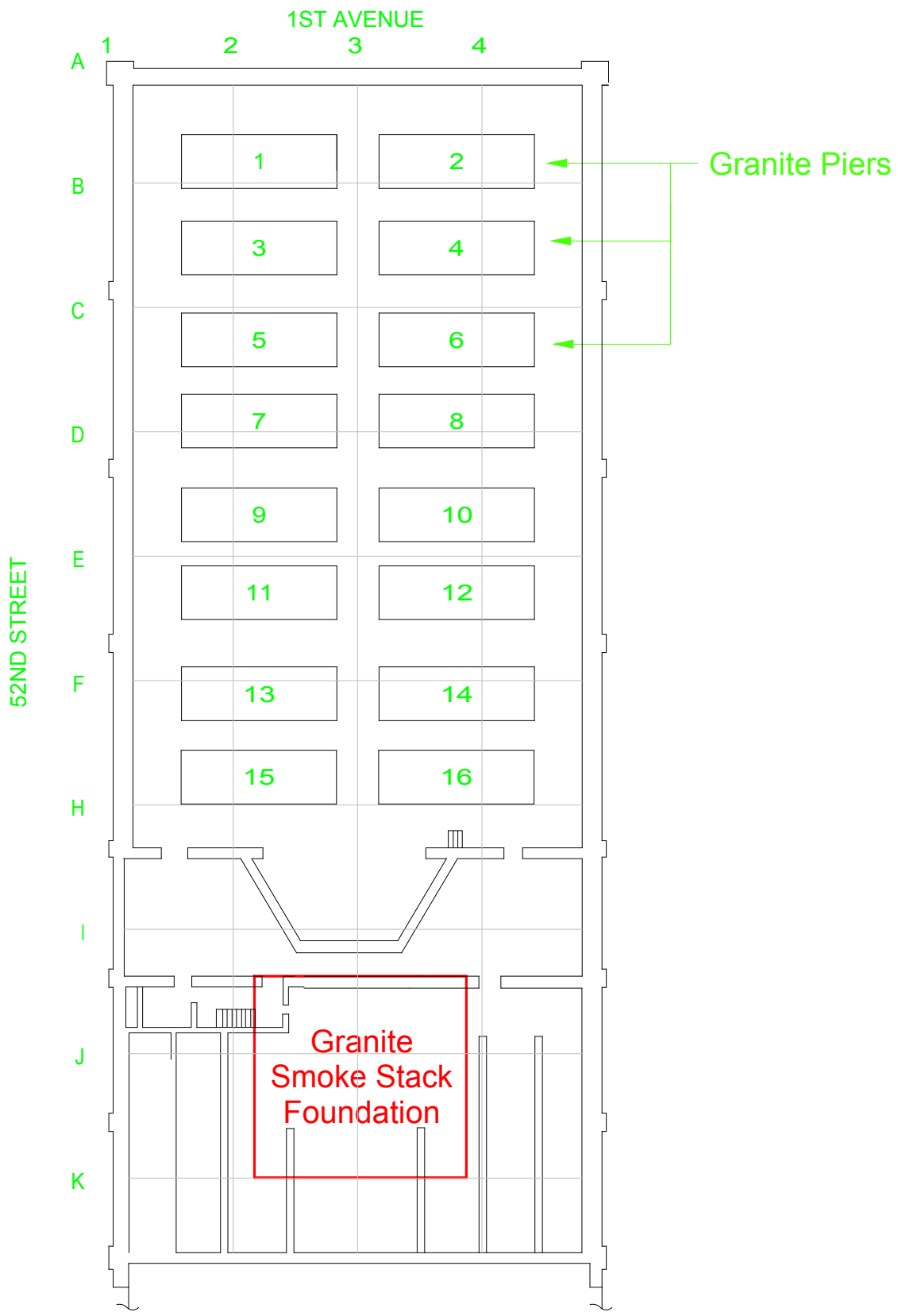


Figure 1
Site Location Map
Legend
5200 1st Ave
Sunset Park
5200 1st Ave
Sunset Park
278
1st Ave
2nd Ave
3rd Ave
4th Ave
6th Ave
41st St
42nd St
43rd St
44th St
47th St
49th St
50th St
51st St
52nd St
53rd St
54th St
55th St
56th St
57th St
58th St
59th St
60th St
61st St
62nd St
Leif Ericson Dr
Google Earth
© 2017 Google
2000 ft
N

Figure 2





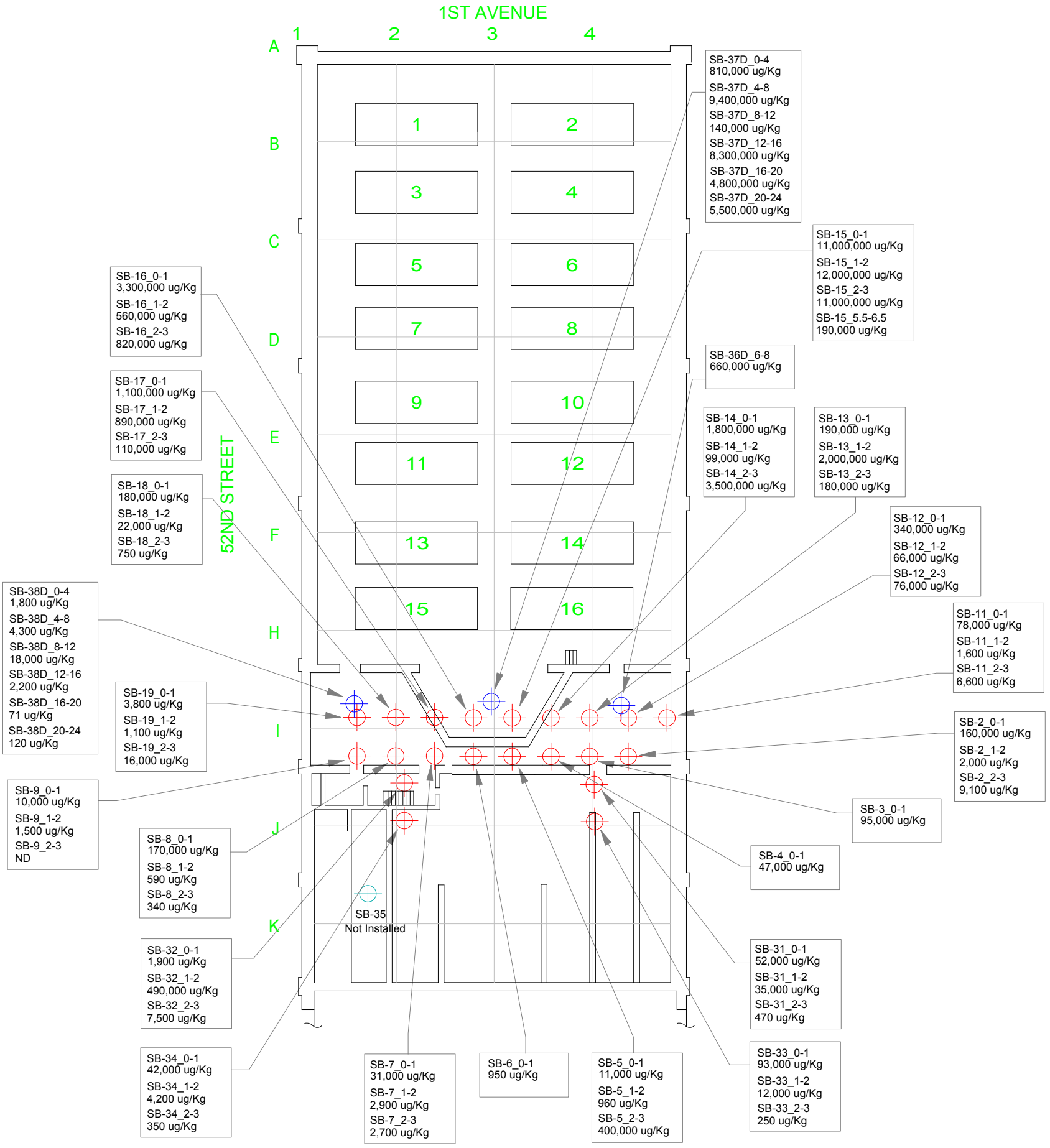
0 30
SCALE IN FEET

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Site Map
Former Empire Electric Building
Footprint

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 3



ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results

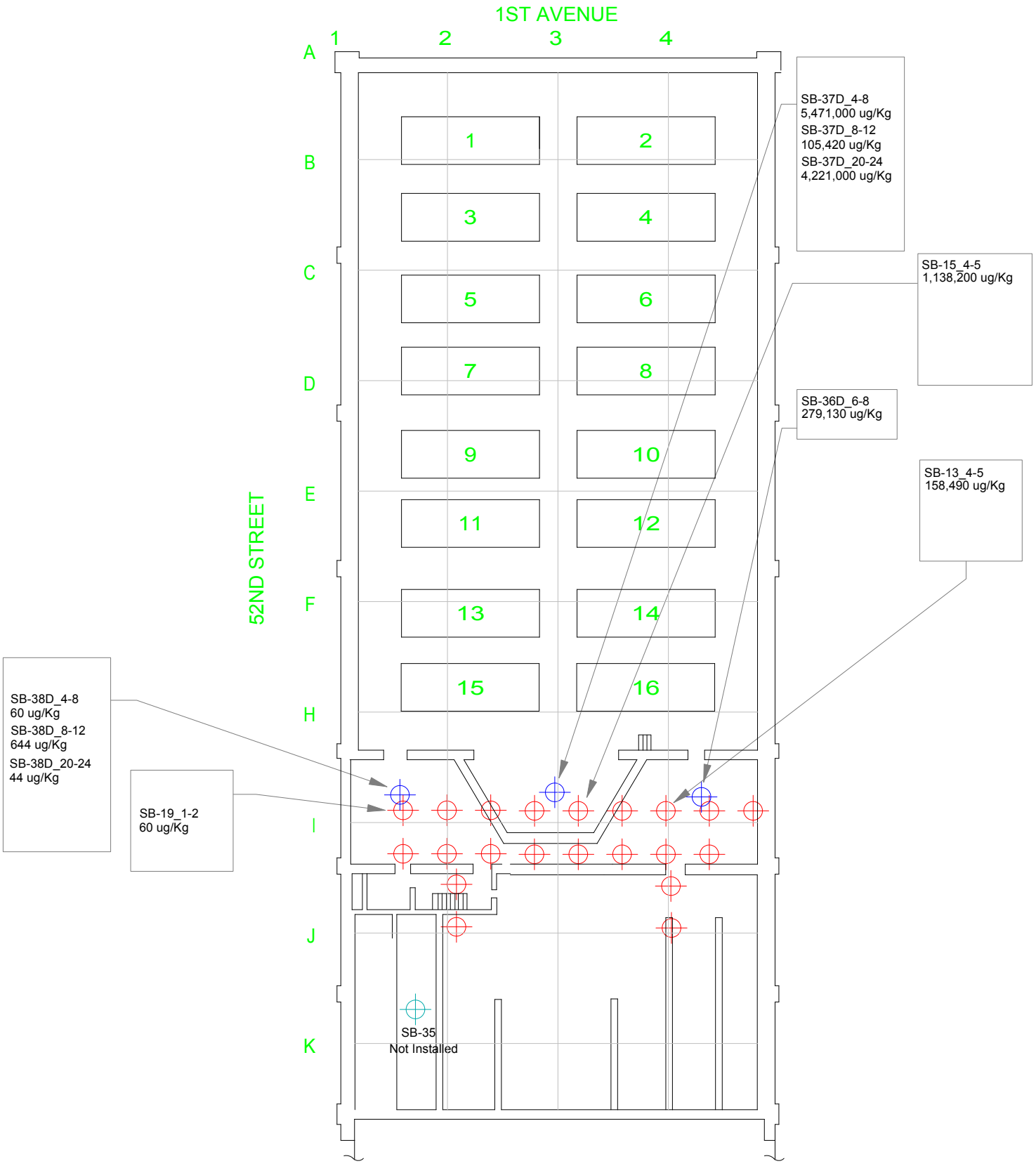
Total PCBs

Soil Borings

July - September 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 4



- Manual Soil Boring (July 6 - 10, 2017)

- Direct Push Soil Boring (Sept 27 - 28, 2017)

SB-31_0-1 - Sample ID and Depth Below Grade (ft)

52,000 ug/Kg - Reported VOC Concentration (Test America, Inc.)

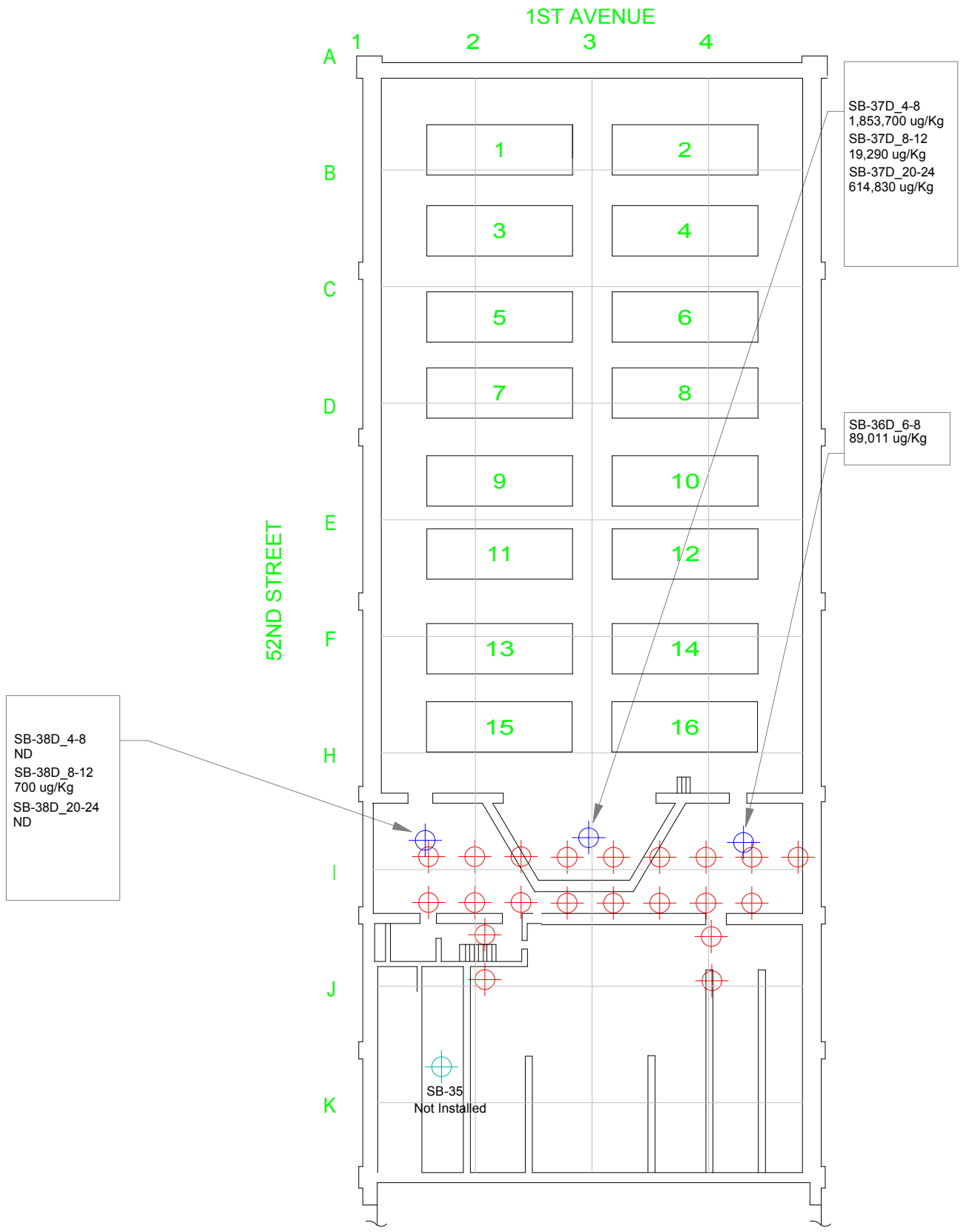
0 30
SCALE IN FEET

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results
Total VOCs
Soil Borings
July - September 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 5



- Manual Soil Boring (July 6 - 10, 2017)
- Direct Push Soil Boring (Sept 27 - 28, 2017)

SB-31_0-1 - Sample ID and Depth Below Grade (ft)

52,000 ug/Kg - Reported SVOC Concentration (Test America, Inc.)

ND - Not Detected

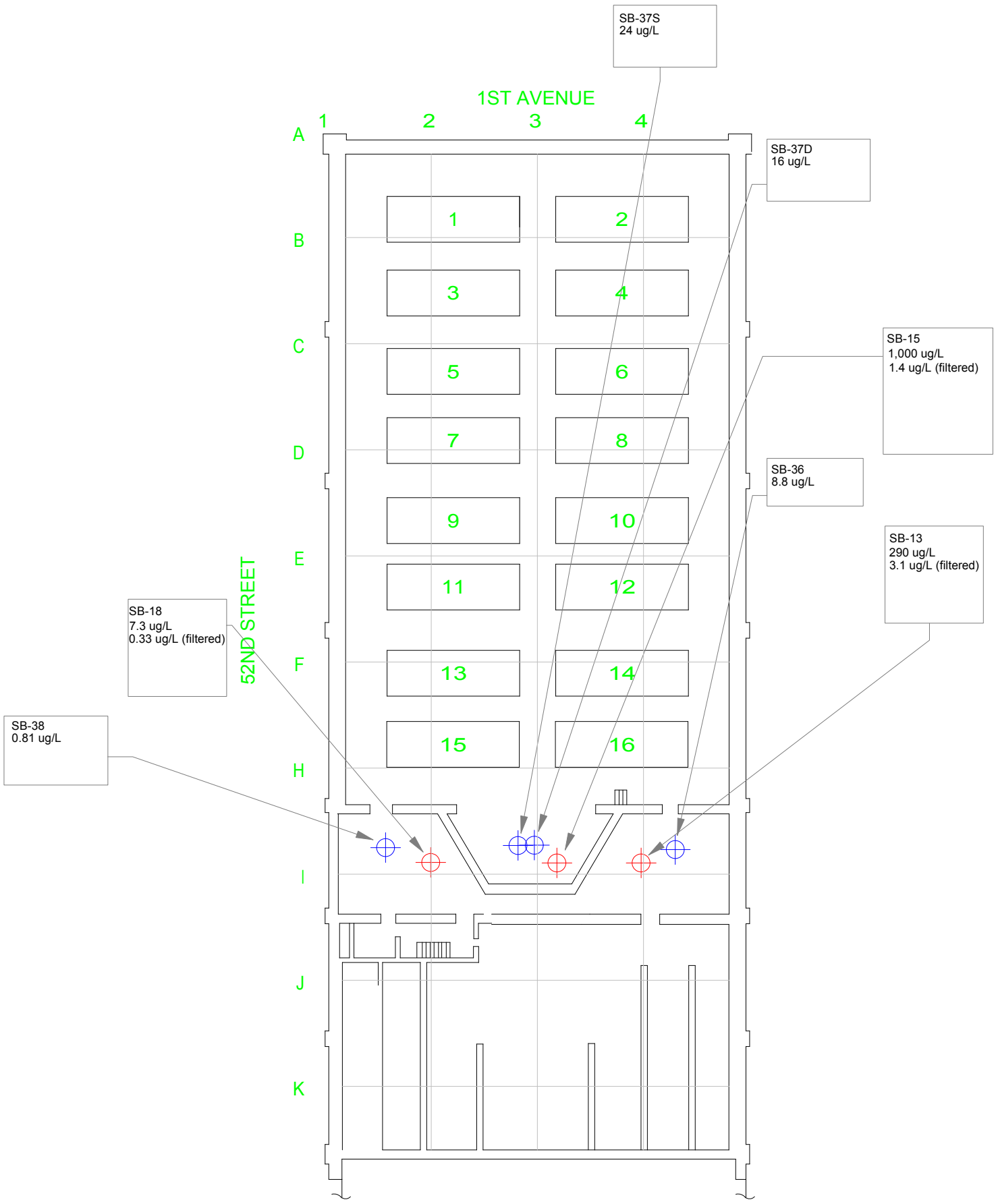
0 30
SCALE IN FEET

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil Analytical Results
Total SVOCs
Soil Borings
July - September 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 6



- Manual Boring (Installed July 6 - 10, 2017)

- Direct Push Soil Boring (Installed Sept 27 - 28, 2017)

SB-31 - Sample ID

52,000 ug/L - Reported PCB Concentration (Test America, Inc.)

0 30
SCALE IN FEET

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results
Total PCBs
Temporary Wells
July - October 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 7

- Manual Boring (Installed July 6 - 10, 2017)

- Direct Push Soil Boring (Installed Sept 27 - 28, 2017)

SB-31 - Sample ID

52,000 ug/L - Reported VOC Concentration (Test America, Inc.)

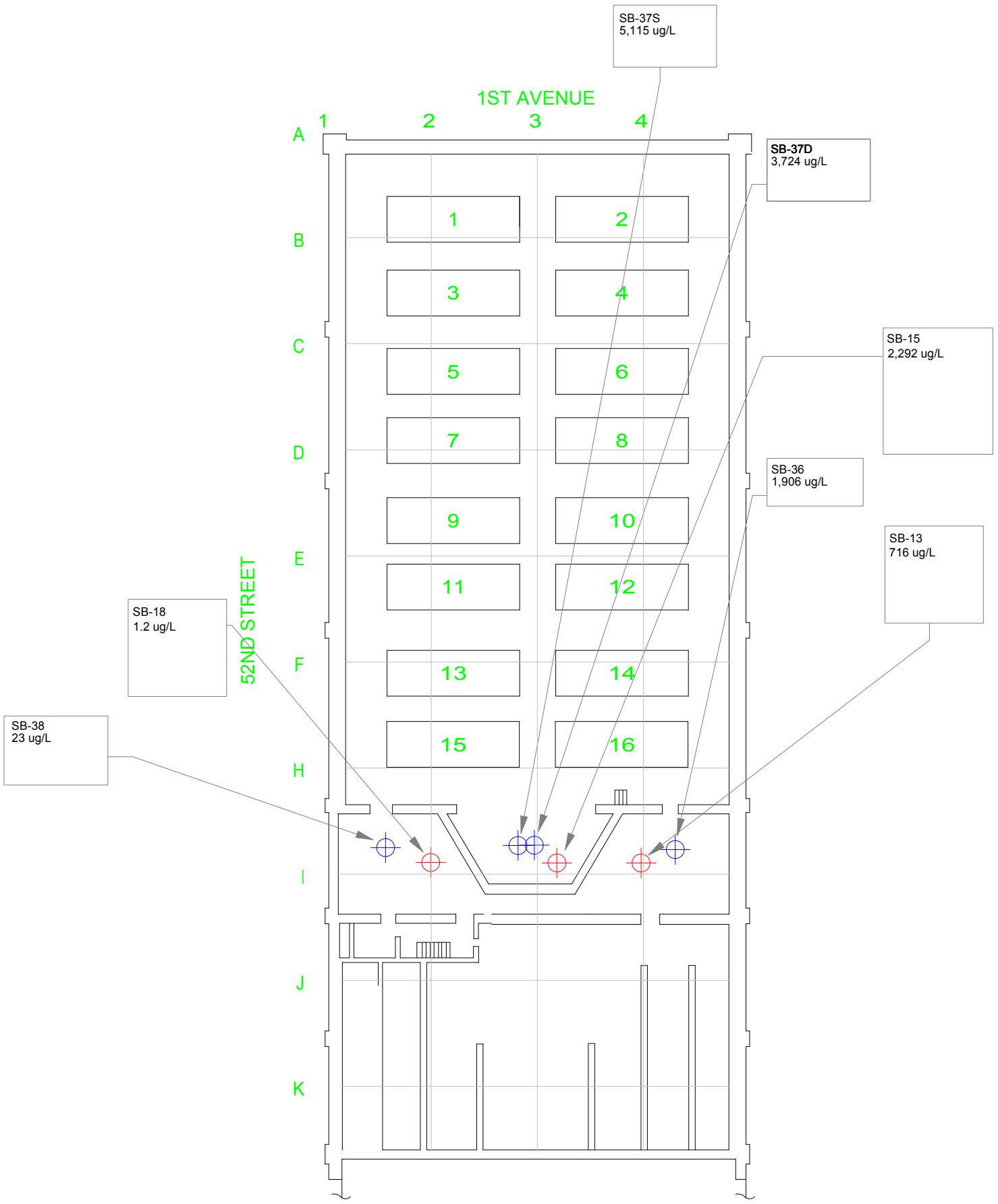
0 30
SCALE IN FEET

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results
Total VOCs
Temporary Wells
July - October 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 8



- Manual Boring (Installed July 6 - 10, 2017)

- Direct Push Soil Boring (Installed Sept 27 - 28, 2017)

SB-31 - Sample ID

52,000 ug/L - Reported SVOC Concentration (Test America, Inc.)

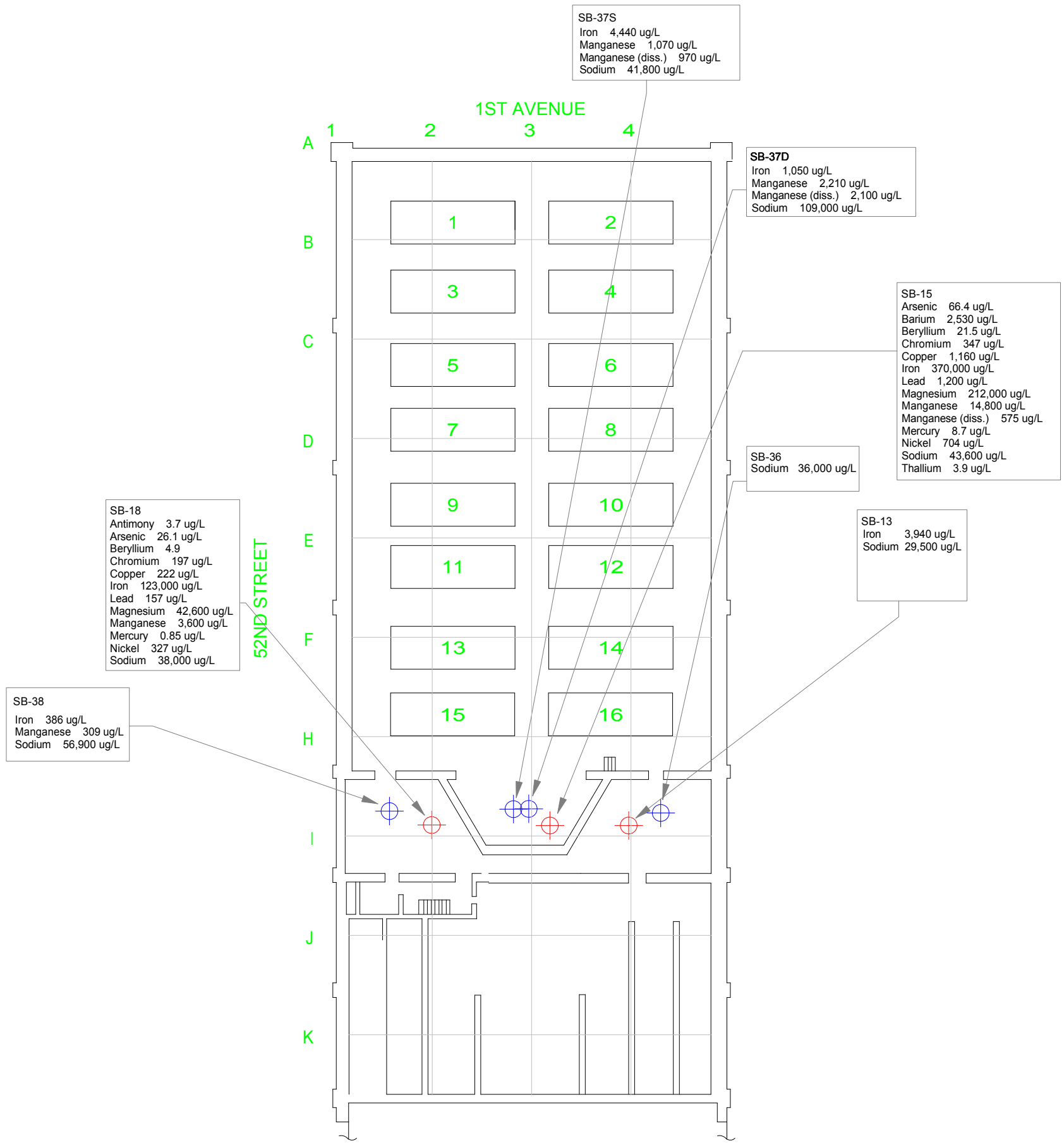
0 30
SCALE IN FEET

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results
Total SVOCs
Temporary Wells
July - October 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 9



Only Parameters Exceeding NYSDEC TOGS
1.1.1 Standards or Guidance Values Are Posted

- Manual Boring (Installed July 6 - 10, 2017)
- Direct Push Soil Boring (Installed Sept 27 - 28, 2017)

SB-31 - Sample ID

52,000 ug/L - Reported Metals Concentration (Test America, Inc.)

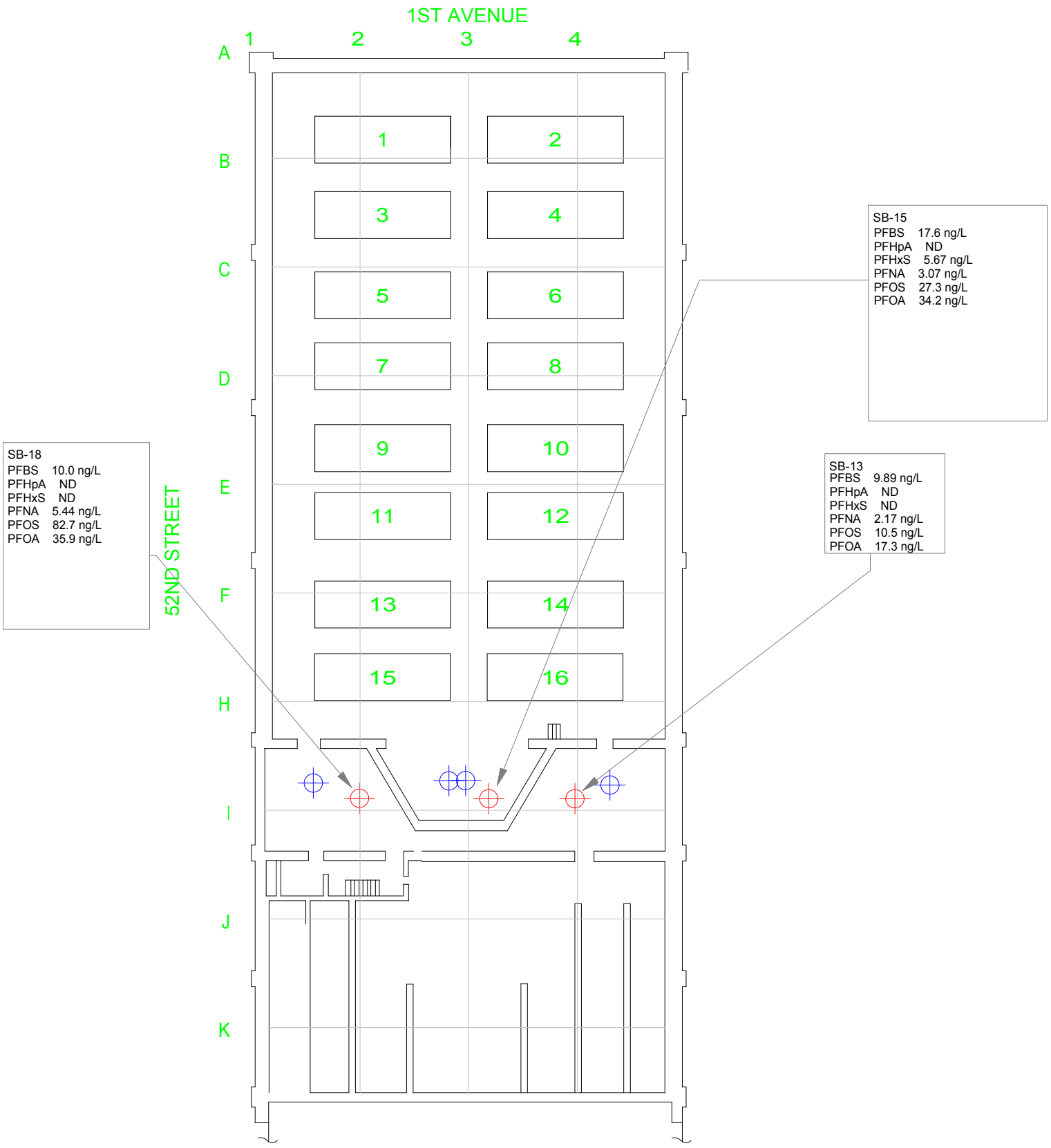
0 30
SCALE IN FEET

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results
Metals
Temporary Wells
July - October 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 10



PFBS = Perfuorobutanesulfonic Acid
PFHpA = Perfluoroheptanoic Acid
PFHxS = Perfluorohexanesulfonic Acid
PFNA = Perfluorononanoic Acid
PFOS = Perfluorooctanesulfonic Acid
PFOA = Perfluorooctanoic Acid

0 30
SCALE IN FEET

- Manual Boring (Installed July 6 - 10, 2017)
- Direct Push Soil Boring (Installed Sept 27 - 28, 2017)

SB-31 - Sample ID

52,000 ng/L - Reported PFA Concentration (Test America, Inc.)

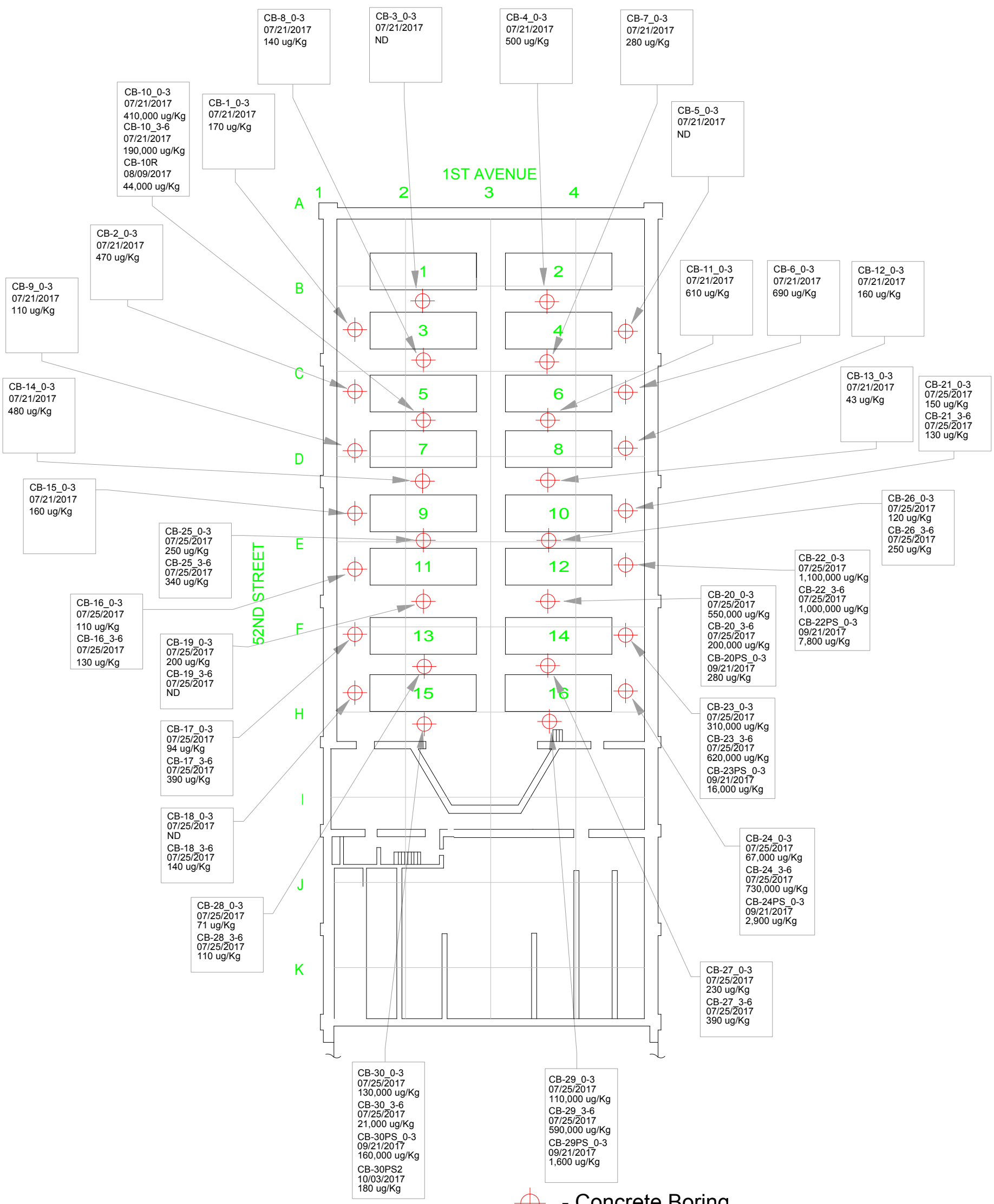
ND - Not Detected

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results
Perfluorinated Compounds
Temporary Wells
July - October 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 11



ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Concrete Analytical Results

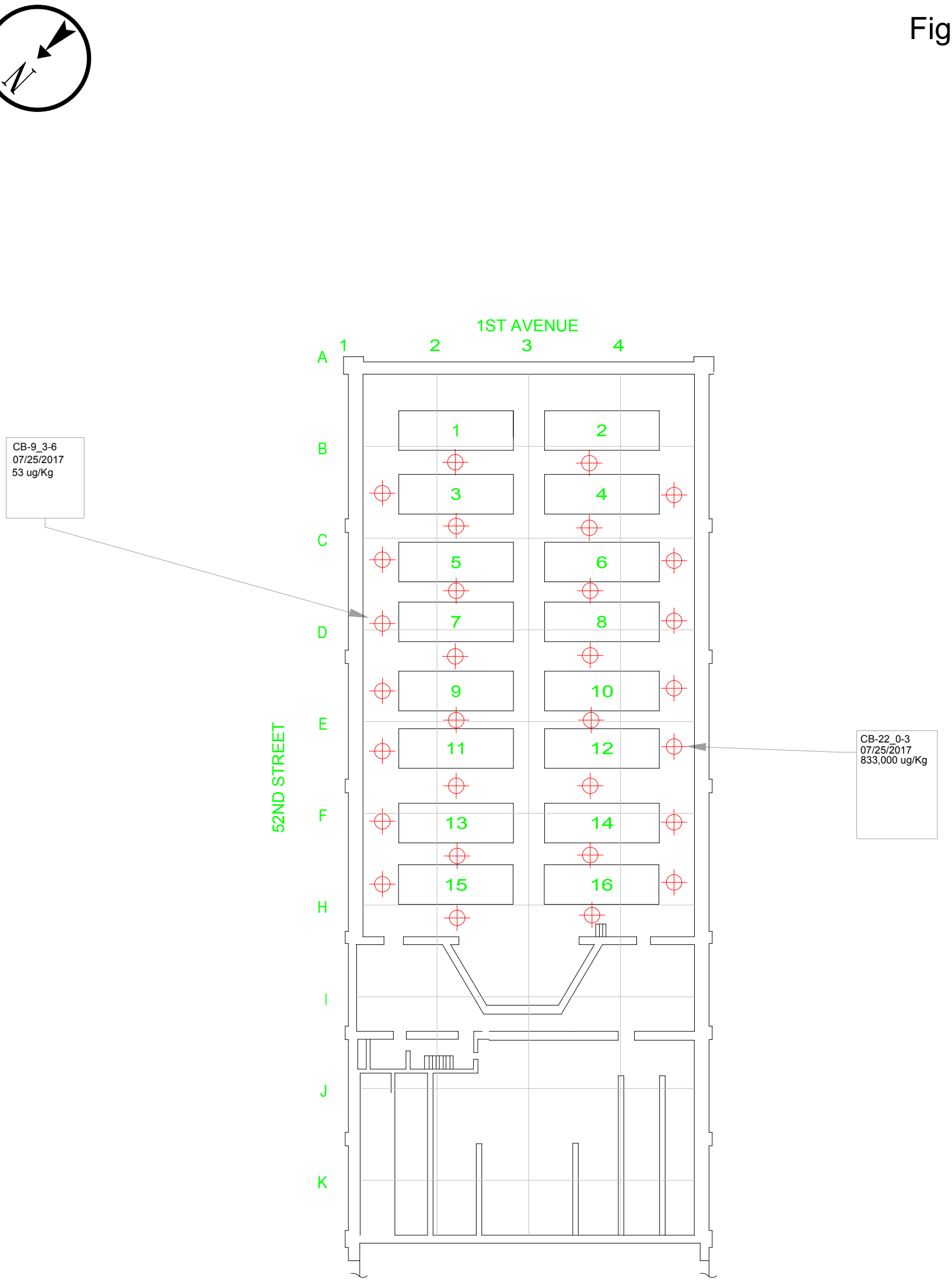
Total PCBs

Concrete Borings

July - October 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 12



- Concrete Boring

CB-31_0-3 - Sample ID and Depth Below Grade (in)

07/25/17 - Date Sampled

52,000 ug/Kg - Reported VOC Concentration (Test America, Inc.)

ND - Not Detected

0 30

SCALE IN FEET

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Concrete Analytical Results

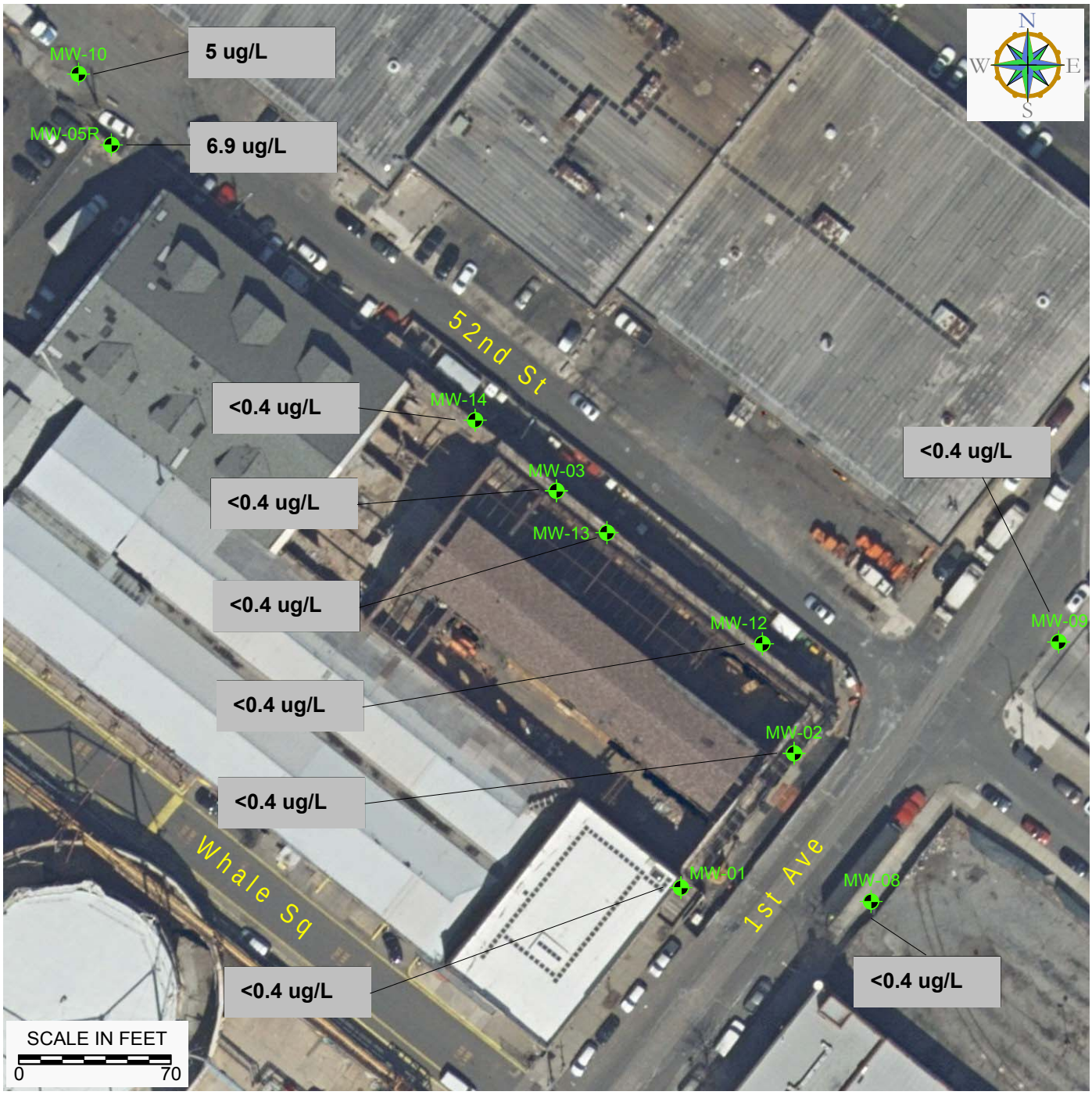
Total VOCs

Concrete Borings

July - October 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 13

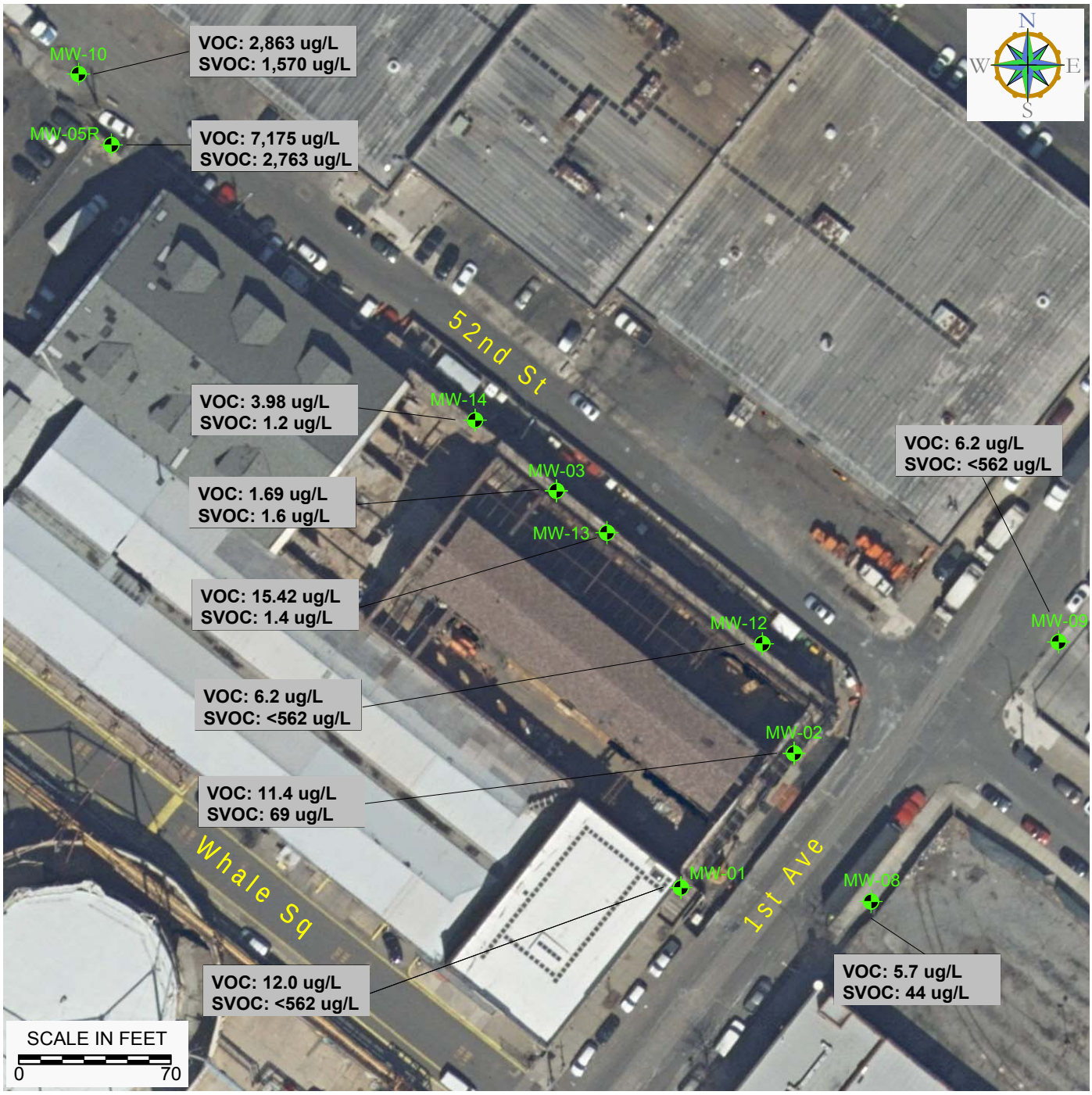


Monitoring Well

Test America, Inc. Analytical Results

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS	**Groundwater Analytical Results** **Monitoring Wells** **Total PCB's** **July-October 2017**	Empire Electric 5200 First Avenue Brooklyn, NY NYSDEC Site No. 224015

Figure 14



Monitoring Well

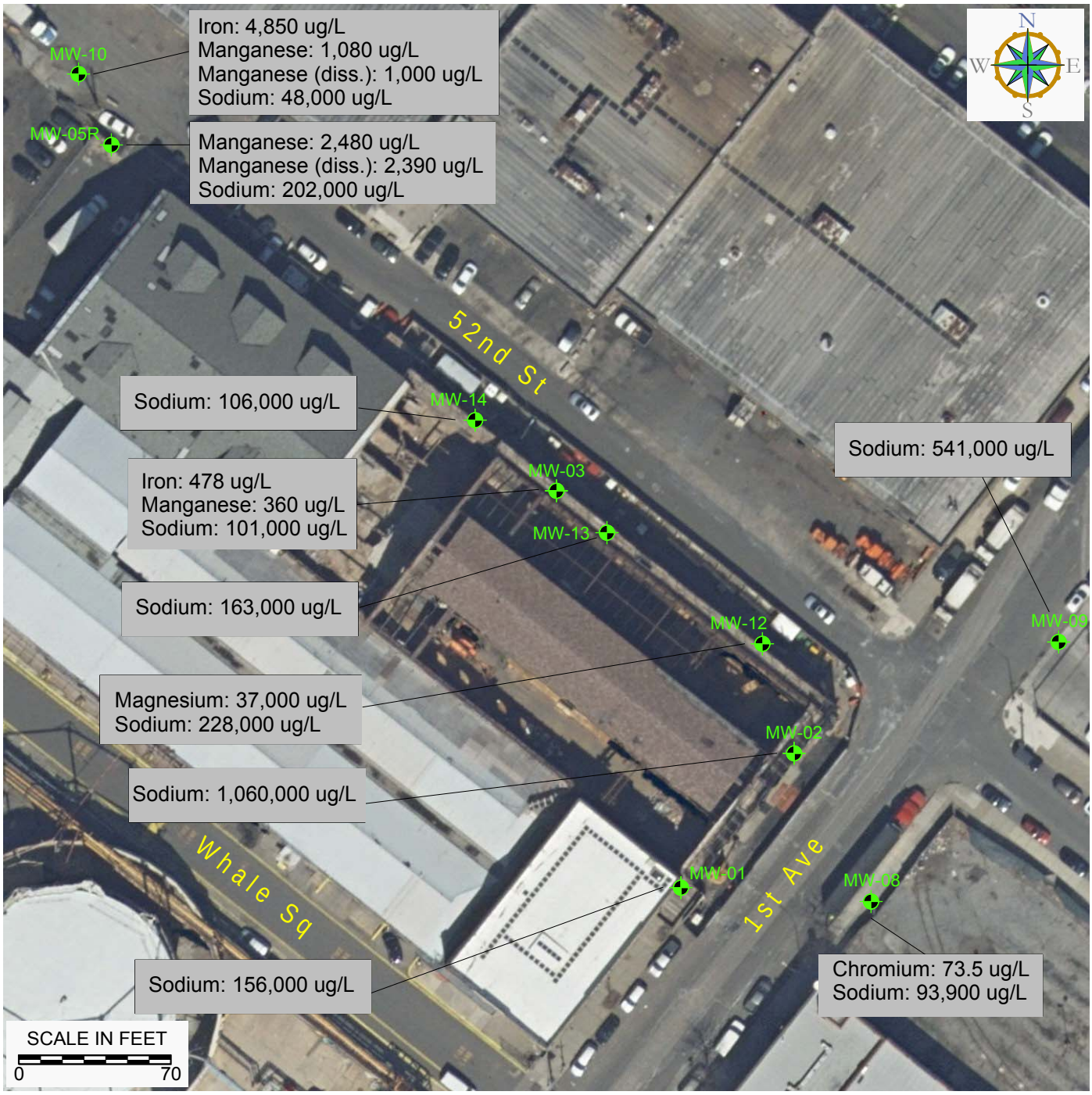
Test America, Inc. Analytical Results

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results
Monitoring Wells
Total VOC's, Total SVOC's
July-October 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Figure 15



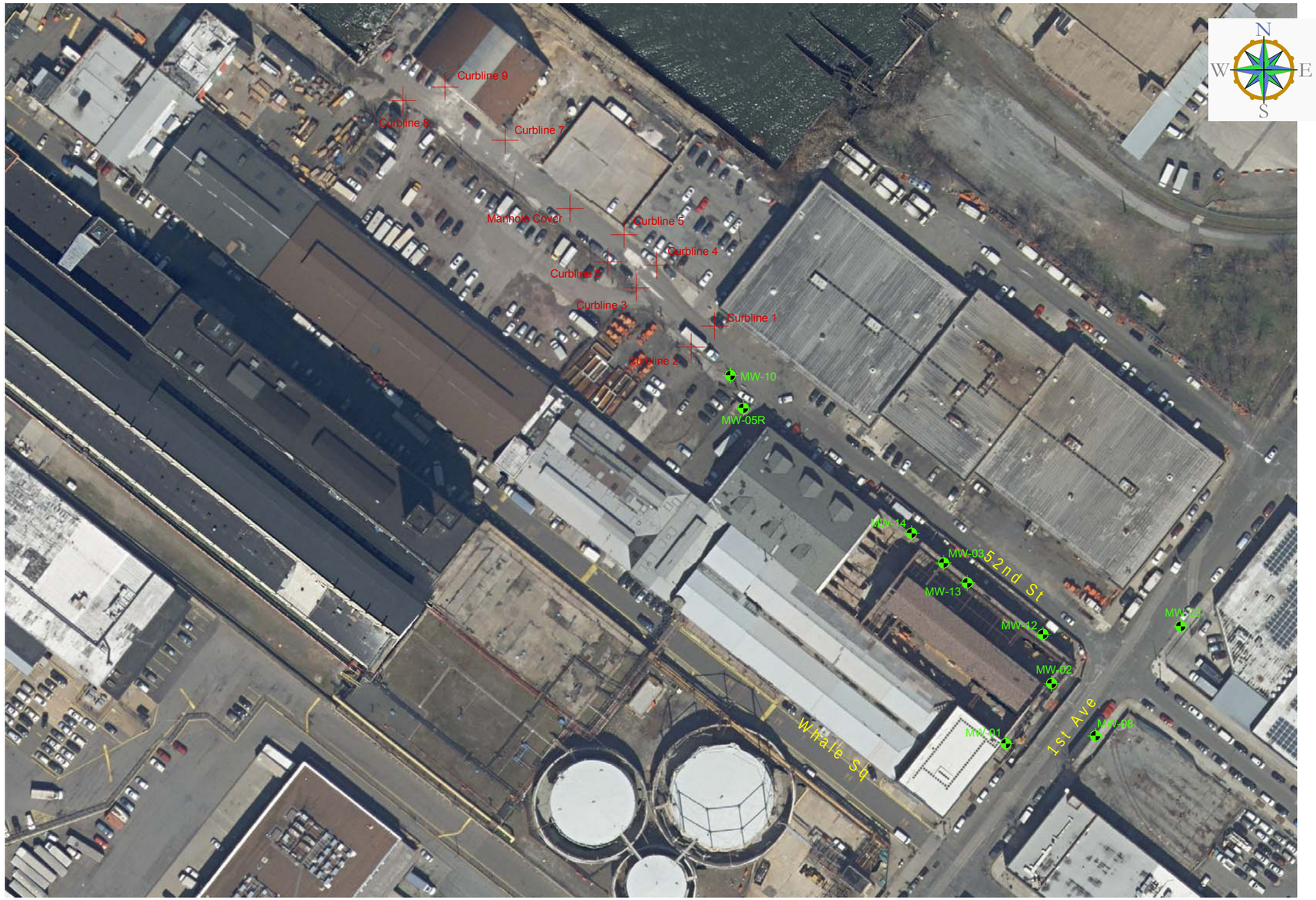
Monitoring Well

Test America, Inc. Analytical Results

Only parameters with values exceeding TOGS 1.1.1 standards/guidance values are posted.

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS	**Groundwater Analytical Results** **Monitoring Wells** **Metals** **July-October 2017**	Empire Electric 5200 First Avenue Brooklyn, NY NYSDEC Site No. 224015

Figure 16



ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Survey

EAR Surveyed Locations Sept.-Oct. 2017

Empire Electric
5200 First Avenue
Brooklyn, NY
NYSDEC Site No. 224015

Appendix A: Boring Logs

225 Atlantic Avenue
Patchogue, NY 11772
Office: 631.447.6400
Fax: 631.447.6497
Toll-Free: 1.888.EAR.6789
E-mail: info@enviro-asmnt.com
www.Enviro-Asmnt.com

Installation Date 09/25/17

DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

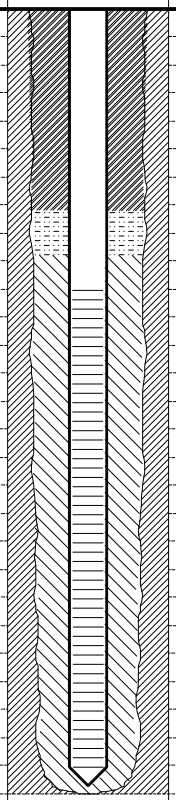
PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric Company 5200 1st Avenue Brooklyn, NY
SITE ID NUMBER	224015
WELL ID	MW-05R
DRILLING METHOD	Hollow Stem Auger (BK-81 Rig)
DRILLING COMPANY	AARCO Environmental
HEAD DRILLER	T. Kelly
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	6"
SAMPLE METHOD	Split-Spoon Sampler (SS)
DEPTH-TO-WATER	13.02'
TOTAL WELL DEPTH	24'

WELL CONSTRUCTION

CASING
Type PVC Diameter 2" Length 14'

SCREEN
Type PVC Diameter 2" Slot 0.010" Length 10'

GRAVEL PACK	Grout (0'-9' BGS) & Well gravel (12'-24'BGS)
CASING SEAL	Bentonite (Hydrated Pellets) (9'-12' BGS)
SECURITY	8"x12" Steel Bolt-Down Manhole cover 2" locking well cap
FINISH	2'x2' concrete pad
COMMENTS	MW-05 is 9.5' SW of SW curb of 52nd St., 29.25' NW of NW corner of building #2 52nd St., and 19.5' S of utility pole #6.



Depth Below Grade	Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
	0'-5'	Post hole; cleared.				
	5'-7'	0.25'-Black fine sand, trace medium sand, trace coarse sand, moist, no odor.	SS	5'-7'	324 ppm	73
		1.20'-Brown fine sand, trace medium sand, trace coarse sand, moist, no odor.				
	7'-9'	0.30'-Black fine sand, trace medium sand, trace coarse sand, moist, no odor.	SS	7'-9'	25.6 ppm	55
		0.80'-Brown fine sand, trace medium sand, trace coarse sand, moist, no odor.				
	9'-11'	0.25'-Black fine sand, trace medium sand, trace coarse sand, moist, no odor.	SS	9'-11'	68.4 ppm	75
		1.25'-Brown fine sand, trace silt, trace medium sand, trace coarse sand, moist, no odor.				
	11'-13'	0.25'-Black fine sand, trace medium sand, trace coarse sand, moist, no odor.	SS	11'-13'	149.3 ppm	58
13.02'		0.25'-Brown fine sand, trace silt, trace medium sand, trace coarse sand, moist, no odor.				
		0.65'-Brown fine sand, trace silt, trace medium sand, trace coarse sand, wet, no odor.				
	13'-15'	1.70'-Brown fine sand, trace silt, trace medium sand, trace coarse sand, wet no odor.	SS	13'-15'	3.9 ppm	100
		0.30'-Black fine sand, trace silt, trace medium sand, trace coarse sand, wet, odor.				
	15'-17'	0.90'-Brown fine sand, trace silt, trace medium sand, wet, no odor.	SS	15'-17'	6.7 ppm	48
		0.05'-Black fine sand and medium sand, trace coarse sand, wet, odor.				
	17'-19'	1.40'-Brown fine sand, trace medium sand, trace coarse sand, wet, odor.	SS	17'-19'	87.1 ppm	70
TWD 24'	19'-21'	2.00'-Brown fine sand, trace medium sand, trace coarse sand, wet, odor.	SS	19'-21'	120.4 ppm	100

Backfill/Gravel Bentonite Grout

225 Atlantic Avenue
Patchogue, NY 11772
Office: 631.447.6400
Fax: 631.447.6497
Toll-Free: 1.888.EAR.6789
E-mail: info@enviro-asmnt.com
www.Enviro-Asmnt.com

Installation Date 09/25/17

DRILLING LOG - Monitoring Well Installation

Boring I.D. MW-05R

Depth Below Grade	Soil Lithology/Field Observations				
	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
21'-23'	0.55'-Brown fine sand, little medium sand, trace coarse sand, wet, odor.	SS	21'-23'	54.1 ppm	28
23'-25'	2.00'-Brown fine sand, little medium sand, trace coarse sand, trace silt, wet, slight odor.	SS	23'-25'	30.3 ppm	100
	Drilling Notes:				
	-Soil samples collected from 11'-13' BGS and 19'-21' BGS were submitted for laboratory analysis.				

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Fax (631) 447-6497
Email Info@Enviro-Asmnt.com
www.Enviro-Asmnt.com

Installation Date 07/06/17

Page 1 of 1

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-2
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	0'-1'	2.1	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	2.6	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	2'-3'	10.0	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Fax (631) 447-6497
Email Info@Enviro-Asmnt.com
www.Enviro-Asmnt.com

Installation Date 07/06/17

Page 1 of 1

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-3
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	1'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	0'-1'	2.3	-
	Encountered rejection (concrete slab) at ~1'				-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Fax (631) 447-6497
Email Info@Enviro-Asmnt.com
www.Enviro-Asmnt.com

Installation Date 07/06/17

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-4
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	1'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, little medium sand, trace coarse sand, trace gravel; moist, no odor	HA	0'-1'	1.2	-
	Rejection at ~1' BGS (concrete slab)				

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Fax (631) 447-6497
Email Info@Enviro-Asmnt.com
www.Enviro-Asmnt.com

Installation Date 07/06/17

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-5
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, little medium sand, trace coarse sand, trace gravel; moist, no odor	HA	0'-1'	2.6	-
1'-2'	Brown fine sand, little medium sand, trace coarse sand, trace gravel; moist, no odor	HA	1'-2'	2.0	-
2'-3'	Brown fine sand, little medium sand, trace coarse sand, trace gravel; moist, no odor	HA	2'-3'	2.8	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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www.Enviro-Asmnt.com

Installation Date 07/06/17
Page 1 of 1

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric
	5200 First Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-6
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	1'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations: Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace coarse sand; moist, no odor	HA	0'-1'	1.3	
	Rejection at ~1' BGS (concrete slab).				

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/06/17

Page 1 of 1

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-7
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace coarse sand; moist, no odor	HA	0'-1'	2.3	-
1'-2'	Brown fine sand, trace medium sand, trace coarse sand; moist, no odor	HA	1'-2'	1.4	-
2'-3'	Brown fine sand, trace medium sand, trace coarse sand; moist, no odor	HA	2'-3'	3.5	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/06/17

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric
	5200 First Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-8
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations				
	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand; moist, no odor	HA	0'-1'	5.8	-
1'-2'	Brown fine sand, trace medium sand; moist, no odor	HA	1'-2'	3.8	-
2'-3'	Brown fine sand, trace medium sand; moist, no odor	HA	2'-3'	2.2	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/06/17
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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-9
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations				
	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand; moist, no odor	HA	0'-1'	3.3	-
1'-2'	Brown fine sand, trace medium sand; moist, no odor	HA	1'-2'	1.6	-
2'-3'	Brown fine sand, trace medium sand; moist, no odor	HA	2'-3'	2.3	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/06/17

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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-11
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations				
	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand; moist, no odor	HA	0'-1'	6.8	-
1'-2'	Brown fine sand, trace medium sand; moist, no odor	HA	1'-2'	5.0	-
2'-3'	Brown fine sand, trace medium sand; moist, no odor	HA	2'-3'	4.1	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/06/17

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric
	5200 First Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-12
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations				
	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand; wet, no odor	HA	0'-1'	14.6	-
1'-2'	Brown fine sand, trace medium sand; wet, no odor	HA	1'-2'	8.1	-
2'-3'	Brown fine sand, trace medium sand; wet, no odor	HA	2'-3'	6.2	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/06/17

DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

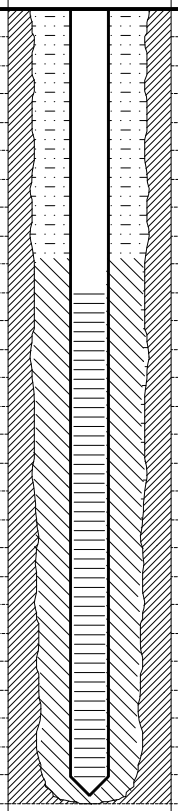
PROJECT/SITE NAME	DEC-Brooklyn5200
SITE ADDRESS	Empire Electric Company
	5200 1st Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
WELL ID	SB-13
DRILLING METHOD	S/S Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
SAMPLE METHOD	S/S Hand Auger (HA)
DEPTH-TO-WATER	~1.5
TOTAL WELL DEPTH	3'

WELL CONSTRUCTION

CASING
Type PVC Diameter 1" Length 3'

SCREEN
Type PVC Diameter 1" Slot 10 Length 2'

GRAVEL PACK	Well Gravel (1'-3')
CASING SEAL	Bentonite (0'-1.0')
SECURITY	PVC dome cap
FINISH	NA
COMMENTS	Well casing extended above grade



Soil Lithology/Field Observations

Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace coarse sand; moist, odor	HA	0'-1'	21.3 ppm	-
1'-2'	Brown fine sand, trace medium sand, trace coarse sand; wet, odor	HA	1'-2'	42.6 ppm	-
2'-3'	Brown fine sand, trace medium sand, trace coarse sand; wet, odor	HA	2'-3'	71.2 ppm	-
	Drilling Notes:				

Backfill/Gravel Bentonite Grout

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Installation Date 07/26/17
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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-13
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~1.5'
TOTAL BORING DEPTH	5'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL	Native
FINISH	Match existing (no finish, in dirt)
COMMENTS	Resampling for VOC analysis

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand; moist, no odor	HA	0'-1'	2.8	-
1'-2'	Brown fine sand, trace medium sand; wet, no odor	HA	1'-2'	5.3	-
2'-3'	Brown fine sand, trace medium sand; wet, no odor	HA	2'-3'	0.4	-
4'-5'	Brown fine sand, trace medium sand; wet, odor	HA	4'-5'	72.1	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/10/17
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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-14
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace coarse sand, trace gravel; moist, no odor.	HA	0'-1'	61.2	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	29.1	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, odor	HA	2'-3'	117.3	

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/07/17

DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-Brooklyn5200
SITE ADDRESS	Empire Electric Company
	5200 1st Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
WELL ID	SB-15
DRILLING METHOD	S/S Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
SAMPLE METHOD	S/S Hand Auger (HA)
DEPTH-TO-WATER	~3.9
TOTAL WELL DEPTH	6.5

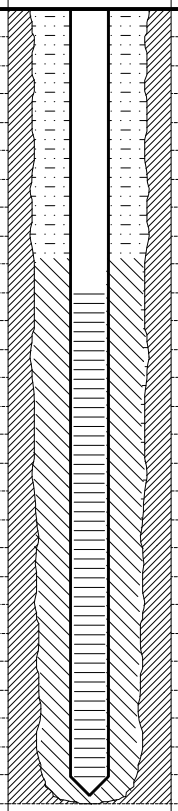
WELL CONSTRUCTION

CASING
Type PVC Diameter 1" Length 6'

SCREEN
Type PVC Diameter 1" Slot 10 Length 2'

GRAVEL PACK	Well Gravel (4.5'-6.5')
CASING SEAL	Bentonite (0'-4.5')
SECURITY	PVC dome cap
FINISH	NA
COMMENTS	Well casing extended above grade

Depth Below Grade | Well Design



Soil Lithology/Field Observations

Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, little medium sand, little coarse sand, trace gravel; wet, odor	HA	0'-1'	58.0 ppm	-
1'-2'	Brown fine sand, little medium sand, little coarse sand, trace gravel; wet, strong odor	HA	1'-2'	142 ppm	-
2'-3'	Brown fine sand, little medium sand, little coarse sand, trace gravel; wet, strong odor	HA	2'-3'	1201 ppm	-
5.5'-6.5'	Brown silty fine sand; wet, strong odor	HA	2'-3'	107 ppm	-
	Drilling Notes:				

Backfill/Gravel | Bentonite | Grout

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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric
	5200 First Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-15
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3.5'
TOTAL BORING DEPTH	5'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL	Native
FINISH	Match existing (no finish, in dirt)
COMMENTS	Resampling for VOC analysis

Depth Below Grade	Soil Lithology/Field Observations: Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, little medium sand, little coarse sand, trace gravel; moist, faint odor	HA	0'-1'	4.5	-
1'-2'	Brown fine sand, little medium sand, little coarse sand, trace gravel; moist, odor	HA	1'-2'	45.3	-
2'-3'	Brown fine sand, little medium sand, little coarse sand, trace gravel; moist, odor	HA	2'-3'	58.7	-
4'-5'	Brown silty fine sand, trace medium sand, trace coarse sand; wet, odor	HA	4'-5'	65.6	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/10/17
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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-16
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations				
	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	0'-1'	6.2	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	6.3	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	2'-3'	7.2	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/10/17
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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-17
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	0'-1'	1.2	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	3.9	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	2'-3'	1.3	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/07/17

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DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-Brooklyn5200
SITE ADDRESS	Empire Electric Company 5200 1st Avenue Brooklyn, NY
SITE ID NUMBER	224015
WELL ID	SB-18
DRILLING METHOD	S/S Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
SAMPLE METHOD	S/S Hand Auger
DEPTH-TO-WATER	~4.9
TOTAL WELL DEPTH	5.5

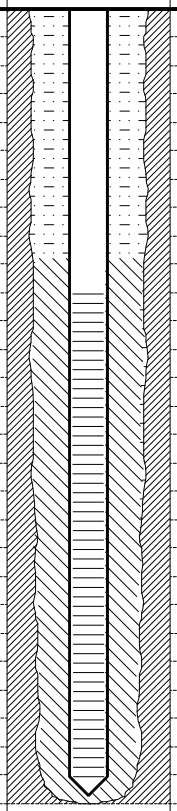
WELL CONSTRUCTION

CASING
Type PVC Diameter 1" Length 5'

SCREEN
Type PVC Diameter 1" Slot 10 Length 2'

GRAVEL PACK	Well Gravel (3.5'-5.5')
CASING SEAL	Bentonite (0'-3.5')
SECURITY	PVC dome cap
FINISH	NA
COMMENTS	Well casing extended above grade

Depth Below Grade | Well Design



Soil Lithology/Field Observations

Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, little medium sand, trace coarse sand, trace gravel; moist, no odor	HA	0'-1'	1.0 ppm	-
1'-2'	Brown fine sand, little medium sand, trace coarse sand, trace gravel; moist, no odor	HA	1'-2'	3.0 ppm	-
2'-3'	Brown fine sand, trace medium sand; moist, no odor	HA	2'-3'	1.2 ppm	-
	Drilling Notes:				
	Well set at 5.5' BGS per EA representative				

Backfill/Gravel Bentonite Grout

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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric
	5200 First Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-19
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations: Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, some medium sand, , trace coarse sand trace gravel; moist, no odor	HA	0'-1'	0.3	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	0.0	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	2'-3'	0.3	

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric
	5200 First Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-19
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3.5'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL	Native
FINISH	Match existing (no finish, in dirt)
COMMENTS	Resampling for VOC analysis

Depth Below Grade	Soil Lithology/Field Observations: Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, some medium sand, trace coarse sand, trace gravel; moist, no odor	HA	0'-1'	0.3	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	0.3	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	2'-3'	0.2	-
	Rejection at ~3.5' BGS				

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-31
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING

Type S/S hand auger.

GROUNDWATER SAMPLING

Type

BACKFILL Native

FINISH Match existing (no finish, in dirt)

COMMENTS

Depth Below Grade	Soil Lithology/Field Observations				
	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	0'-1'	0.6	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	2.6	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	2'-3'	0.2	

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-32
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	0'-1'	3.8	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	1.6	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	2'-3'	1.9	

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

225 Atlantic Avenue
Patchogue, New York 11772
Tel (631) 447-6400
Fax (631) 447-6497
Email Info@Enviro-Asmnt.com
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Installation Date 07/10/17
Page 1 of 1

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric
	5200 First Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-33
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations: Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	0'-1'	1.2	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	2.5	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	2'-3'	1.3	-

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 07/10/17

DRILLING LOG - Temporary Borehole Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-BROOKLYN5200
SITE ADDRESS	Empire Electric 5200 First Avenue Brooklyn, NY
SITE ID NUMBER	224015
BORING I.D.	SB-34
PURPOSE	Investigation
DRILLING METHOD	Hand Auger
DRILLING COMPANY	EAR
HEAD DRILLER	J. Lohan
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	4"
DEPTH-TO-WATER	~3'-5'
TOTAL BORING DEPTH	3'

SOIL SAMPLING
Type S/S hand auger.

GROUNDWATER SAMPLING
Type

BACKFILL Native
FINISH Match existing (no finish, in dirt)
COMMENTS

Depth Below Grade	Soil Lithology/Field Observations Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-1'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	0'-1'	4.1	-
1'-2'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	1'-2'	2.7	-
2'-3'	Brown fine sand, trace medium sand, trace gravel; moist, no odor	HA	2'-3'	0.9	

"Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%

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Installation Date 09/27/17

DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-Brooklyn5200
SITE ADDRESS	Empire Electric Company 5200 1st Avenue Brooklyn, NY
SITE ID NUMBER	224015
WELL ID	SB-35
DRILLING METHOD	Direct Push (Geoprobe 7822DT)
DRILLING COMPANY	AARCO Environmental
HEAD DRILLER	A. Hutchinson
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	3"
SAMPLE METHOD	Macro Core (MC)
DEPTH-TO-WATER	~5.5'
TOTAL WELL DEPTH	7'

WELL CONSTRUCTION

CASING
Type NA Diameter NA Length NA

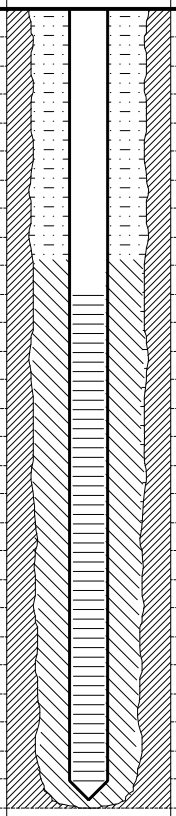
SCREEN
Type NA Diameter NA Slot NA Length NA

GRAVEL PACK NA
CASING SEAL NA
SECURITY NA

FINISH Backfilled with native cuttings
COMMENTS After making two additional attempts, during which rig hit refusal again at ~7' BGS, NYSDEC directed that no further attempts be made at this location.

Soil Lithology/Field Observations

Depth Below Grade	Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
	0'-4'	0.85' Tan-brown fine sand, trace medium sand, dry, no staining, no odor	MC	0'-4'	0.9 ppm	78
		0.40' Crushed red brick and concrete				
		1.85' Brown fine sand, trace medium sand, dry, no staining, no odor				
	4'-8'	2.15' Brown fine sand, trace medium sand, trace coarse sand; wet, no staining	MC	4'-8'	1.1 ppm	54
		no odor.				
		Refusal at approx. 7 feet BGS				
~5.5'						
		Drilling Notes:				
TWD 7'		Refusal at ~7'.				



Backfill/Gravel Bentonite Grout

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Installation Date 09/27/17

DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

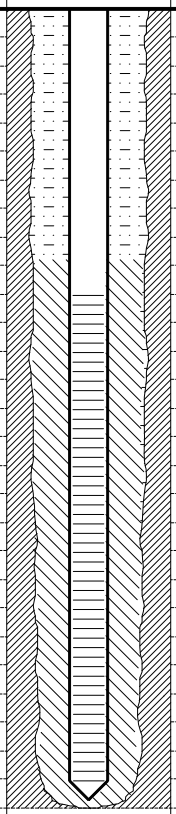
PROJECT/SITE NAME	DEC-Brooklyn5200
SITE ADDRESS	Empire Electric Company 5200 1st Avenue Brooklyn, NY
SITE ID NUMBER	224015
WELL ID	SB-36
DRILLING METHOD	Direct Push (Geoprobe 7822DT)
DRILLING COMPANY	AARCO Environmental
HEAD DRILLER	A. Hutchinson
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	3"
SAMPLE METHOD	Macro Core (MC)
DEPTH-TO-WATER	~5.5'
TOTAL WELL DEPTH	8'

WELL CONSTRUCTION

CASING
Type PVC Diameter 2" Length 4'

SCREEN
Type PVC Diameter 2" Slot 10 Length 5'

GRAVEL PACK	Pre-Packed Screen (3'-8') Well Gravel (2.5'-3')
CASING SEAL	Bentonite (0'-2.5')
SECURITY	2" locking well cap
FINISH	Clean Fill
COMMENTS	Well casing extended above grade



Soil Lithology/Field Observations

Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-4'	2.65' Tan Fine sand, trace medium sand, trace coarse sand; dry to moist, no staining, no odor.	MC	0'-4'	0.9ppm	66
4'-8'	1.10' Tan Fine sand, trace medium sand, trace coarse sand; moist, no staining no odor.	MC	4'-8'	94.2 ppm	82
	2.20' Brown fine sand, trace medium sand, trace coarse sand; wet no staining odor.				
	Drilling Notes:				
	Refusal at ~8.5'.				

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Installation Date 09/28/17

DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

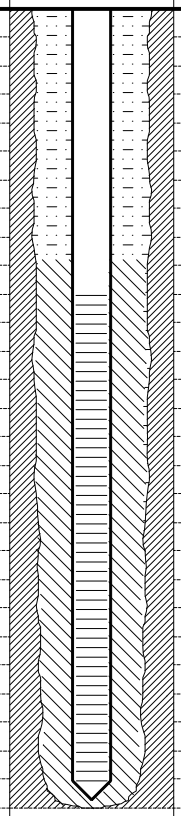
PROJECT/SITE NAME	DEC-Brooklyn5200
SITE ADDRESS	Empire Electric Company
	5200 1st Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
WELL ID	SB-37D
DRILLING METHOD	Direct Push (Geoprobe 7822DT)
DRILLING COMPANY	AARCO Environmental
HEAD DRILLER	A. Hutchinson
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	3"
SAMPLE METHOD	Macro Core (MC)
DEPTH-TO-WATER	5.23'
TOTAL WELL DEPTH	24'

WELL CONSTRUCTION

CASING
Type PVC Diameter 2" Length 19'

SCREEN
Type PVC Diameter 2" Slot 10 Length 5'

GRAVEL PACK	Pre-Packed Screen (19'-24') Well Gravel (17'-19'
CASING SEAL	Bentonite (0'-17')
SECURITY	2" locking well cap
FINISH	Clean Fill
COMMENTS	Well casing extended above grade



Soil Lithology/Field Observations

Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-4'	0.65' Tan fine sand, trace medium sand, trace coarse sand; dry, no staining, no odor.	MC	0'-4'	68.4 ppm	73
	1.25' Brown fine sand, trace medium sand, trace coarse sand; dry, no staining, no odor.				
	0.40' Brown fine sand, trace medium sand, trace coarse sand; moist, no staining, no odor.				
	0.40' Black fine sand, trace medium sand, trace coarse sand; moist, no stianing, odor.				
	0.20' Crushed concrete.				
4'-8'	2.75' Brown fine sand, trace medium sand, trace coarse sand; wet, no stain, odor.	MC	4'-8'	101.9 ppm	69
8'-12'	0.60' Brown silty fine sand, trace medium sand; wet, no staining, odor.	MC	8'-12'	41.1 ppm	74
	2.35' Brown silty fine sand, trace medium sand; wet, no staining, faint odor.				
12'-16'	1.50' Brown/black silty fine sand, trace medium sand; wet, no staining, odor.	MC	12'-16'	90.2 ppm	95
	1.30' Brown silty fine sand, trace medium sand; wet, no staining, faint odor.				
	1.00' Brown fine and medium sand, some coarse sand; no staining, no odor.				
16'-20'	4.00' Brown fine sand, some medium sand, trace coarse sand; wet, no staining, odor.	MC	16'-20'	79.2 ppm	100
20'-24'	3.40' Brown fine and medium sand, little coarse sand; wet, no staining, faint odor.	MC	20'-24'	92.8 ppm	85
	Drilling Notes:				
	NA				

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Installation Date 09/28/17

Page 1 of 1

DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

PROJECT/SITE NAME	DEC-Brooklyn5200
SITE ADDRESS	Empire Electric Company 5200 1st Avenue Brooklyn, NY
SITE ID NUMBER	224015
WELL ID	SB-37S
DRILLING METHOD	Direct Push (Geoprobe 7822DT)
DRILLING COMPANY	AARCO Environmental
HEAD DRILLER	A. Hutchinson
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	3"
SAMPLE METHOD	Macro Core (MC)
DEPTH-TO-WATER	5.34'
TOTAL WELL DEPTH	11'

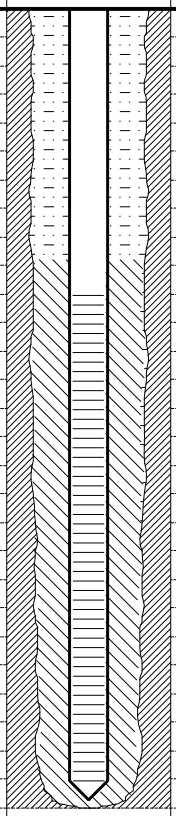
WELL CONSTRUCTION

CASING
Type PVC Diameter 2" Length 6'

SCREEN
Type PVC Diameter 2" Slot 10 Length 5'

GRAVEL PACK	Pre-Packed Screen (6'-11) Well Gravel (4'-6')
CASING SEAL	Bentonite (0'-4')
SECURITY	2" locking well cap
FINISH	Clean Fill
COMMENTS	Well casing extended above grade

Depth Below Grade	Well Design	Soil Lithology/Field Observations					
		Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
			No lithology logged.				
5.34'							
			Drilling Notes:				
TWD 11'			NA				
	NOT TO SCALE						



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Installation Date 09/28/17

DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

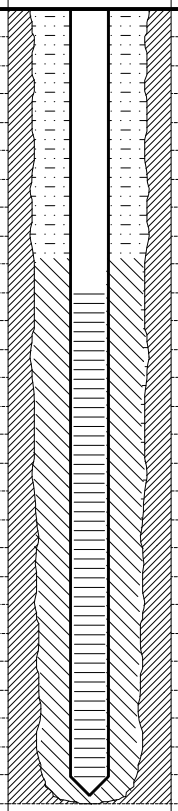
PROJECT/SITE NAME	DEC-Brooklyn5200
SITE ADDRESS	Empire Electric Company
	5200 1st Avenue
	Brooklyn, NY
SITE ID NUMBER	224015
WELL ID	SB-38
DRILLING METHOD	Direct Push (Geoprobe 7822DT)
DRILLING COMPANY	AARCO Environmental
HEAD DRILLER	A. Hutchinson
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	3"
SAMPLE METHOD	Macro Core (MC)
DEPTH-TO-WATER	7.13'
TOTAL WELL DEPTH	11'

WELL CONSTRUCTION

CASING
Type PVC Diameter 2" Length 6'

SCREEN
Type PVC Diameter 2" Slot 10 Length 5'

GRAVEL PACK	Pre-Packed Screen (6'-11') Well Gravel (4.5'-6')
CASING SEAL	Bentonite (0'-4.5')
SECURITY	2" locking well cap
FINISH	Clean Fill
COMMENTS	Well casing extended above grade



Soil Lithology/Field Observations

Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
0'-4'	1.40' Tan fine sand, trace medium sand; dry, no staining, no odor.	MC	0'-4'	0.3 ppm	75
	1.60' Brown fine sand, trace medium sand; moist, no staining, no odor.				
4'-8'	1.00' Brown fine sand, trace medium sand; moist, no staining, no odor.	MC	4'-8'	0.8 ppm	67
	1.00' Brown fine sand, trace medium sand; wet, no staining, no odor.				
8'-12'	2.40' Brown fine sand, trace medium sand; wet, no staining, no odor.	MC	8'-12'	41.1 ppm	100
	0.65' Brown fine sand, trace medium sand, little gravel; wet, no staining, no odor.				
	0.95' Crushed concrete.				
12'-16'	2.00' Brown fine sand, little gravel, trace medium sand; wet, no staining, no odor.	MC	12'-16'	0.4 ppm	100
	1.40' Crushed concrete.				
	0.60' Wood.				
16'-20'	1.95' Dark brown/gray fine sand, trace medium sand, trace concrete, trace wood;	MC	16'-20'	7.1 ppm	96
	wet, no staining, no odor.				
	1.85' Brown fine sand, some medium sand, trace coarse sand; wet, no staining,				
	no odor.				
20'-24'	3.60' Red/brown fine sand, little medium sand, trace coarse sand; wet, no staining	MC	20'-24'	0.9 ppm	90
	no odor.				
24'-28'	3.80' Red/brown fine sand, little medium sand, trace coarse sand; wet, no staining	MC	24'-28'	3.4 ppm	96
	no odor.				
	Drilling Notes:				
	Refusal at ~11.5' using larger diameter rods required for well installation.				

Backfill/Gravel Bentonite Grout

Appendix B: Daily Field Reports

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Thursday, 7/6/17
Weather: scattered showers, 70°+ F
EAR Personnel Onsite: John Lohan (geologist), Michael Ford (foreman), Edgar Lucero (technician)
Onsite Time: 0800
Offsite Time: 1530

On arrival to site met with EA rep. V. Barber and attended site orientation/tailgate safety meeting.

Sample locations were labeled sequentially as soil borings: SB-1 through SB-30. Labeled locations are illustrated in the attached map.

EAR measured out proposed sampling locations. It was determined that the proposed 3x3 meter grid would place the entire southernmost row of sampling locations (SB-21 through SB-30) well over concrete slabs. This row was thus removed from the sampling plan per V. Barber. Three additional points (SB-1, SB-10, and SB-20) were also removed from plan as these locations were inaccessible due to concrete/granite debris.

EAR completed soil sampling activities at a total of eleven locations: SB-2 through SB-9 and SB-11 through SB-13. At each sampling location, borings were advanced to three feet below grade surface (BGS) using a stainless-steel hand auger. Soil samples were collected from 0-1 feet BGS, 1-2 feet BGS, and 2-3 feet BGS at each location.

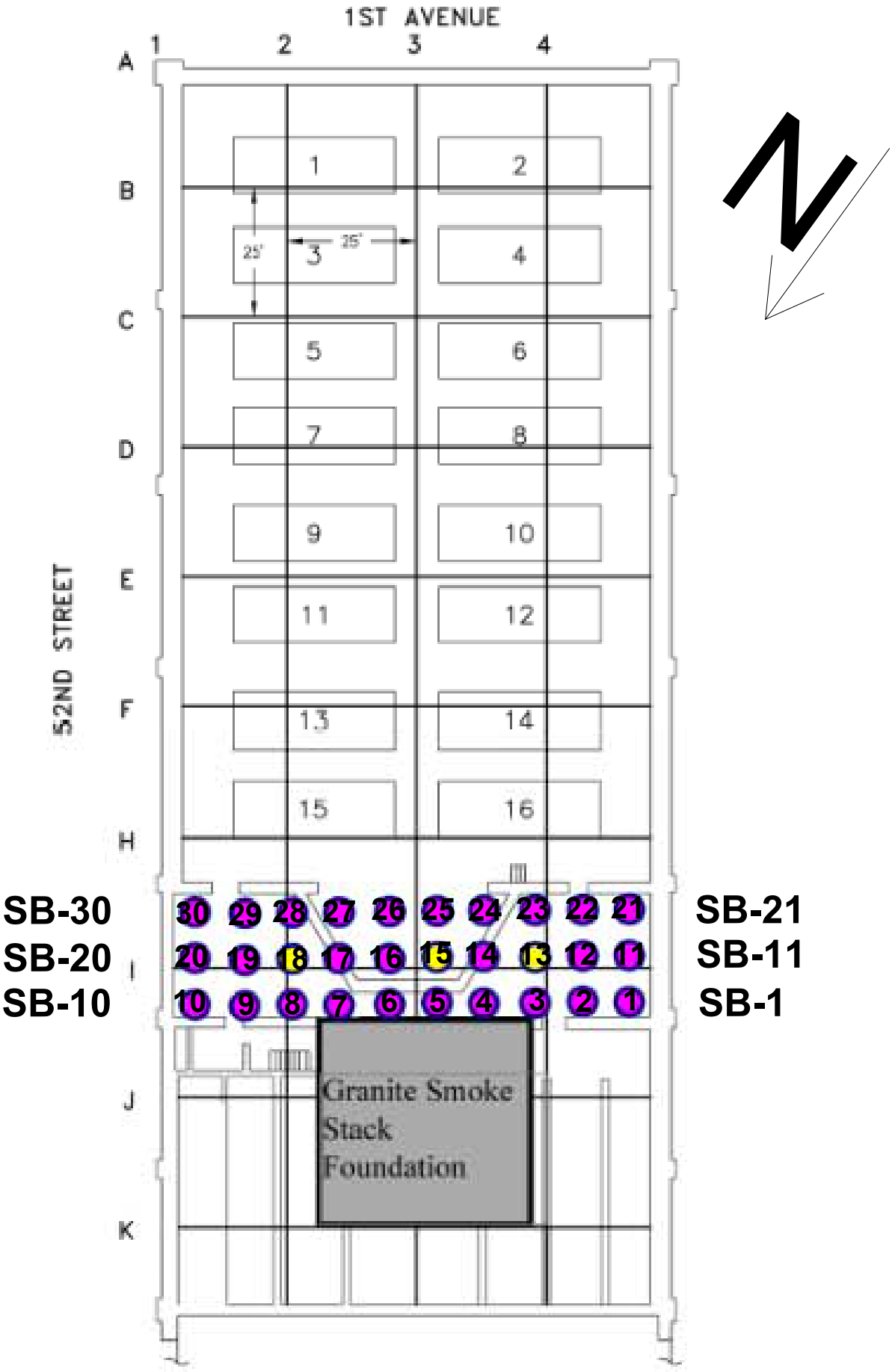
At locations SB-3, SB-4, and SB-6, the crew was unable to advance tooling beyond 2-feet below grade. At these three locations, four additional attempts were made at 6-12 inches from the original borehole in each of the cardinal directions.

At SB-13, EAR advanced a 2-foot length of 1-inch diameter, 20-slot PVC screen to 3-feet below grade in order to collect a groundwater sample. Upon attempting to purge the temporary well, all water was stripped and location failed to recharge sufficiently while crew was onsite. Well to be allowed to recharge overnight and sampled on 7/7 or reset at deeper depth.

All boring and sampling equipment contacting soil and/or groundwater was decontaminated between each sample. Decontamination consisted of gross contaminant removal and hexane rinse followed by Liquinox wash and distilled water rinse.

EAR collected a total of 30 soil samples (including three blind duplicates). All samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of PCB's via EPA Method 8082 at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

Geologist's field notes and chain of custody forms are attached.


1ST AVENUE
52ND STREET
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20 19 18 17 16 15 14 13 12 11
10 9 8 7 6 5 4 3 2 1
SB-21
SB-11
SB-1
Granite Smoke Stack Foundation

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Jay Hoffman	Samplers Name (Printed) EAR	Site/Project Identification DEC - Brooklyn 152200
Company EAR	P.O. # Ste # 224015	State (Location of site): NJ: ☐ NY: ☑ Other:
		Regulatory Program: NYS DEC DKQP: ☐
Address 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City Patchogue State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐	
Phone (631) 447-6100 Fax	Other ☑ 72 hr	

Sample Identification	Date	Time	Matrix	No. of Cont.	TCL's Via 8260	MS/MSD									Lab Use Only Sample Numbers
SB-7_0-1	7/6/17	1050	Soil	1	X										
SB-7_1-2		1055			X										
SB-7_2-3		1100			H										
SB-8_0-1		1103			X										
SB-8_1-2		1105			X										
SB-8_2-3		1108			H										
SB-9_0-1		1145		3	X	X									
SB-9_1-2		1148		1	X										
SB-9_2-3		1151			H										
SB-V					X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____				Soil:	1										
				Water:											

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	7/6/17 1145	1)	
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Jon Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn5200
Company: EAR	P.O. #: Stc # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYS DEC DKQP: ☐
Address: 225 Main St Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐	
Phone: (631) 447-6400 Fax:	Other ☒ 72 Hr	

Sample Identification	Date	Time	Matrix	No. of Cont.	Pb Bs Via 8082	MS/MSD									LAB USE ONLY Sample Numbers
SB-11_0-1	7/6/17	1154	Soil	1	X										
SB-11_1-2		1155			X										
SB-11_2-3		1157			H										
SB-12_0-1		1201			X										
SB-12_1-2		1203			X										
SB-12_2-3		1205			H										
SB-13_0-1		1209		✓	X										
SB-13_1-2		1211		3	X	X									
SB-13_2-3		1213		1	X										
SB-2	✓	/	✓	1	X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH Soil:					1										
6 = Other _____, 7 = Other _____ Water:					/										

Special Instructions: Category B Deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	7/6/17 1445	1)	
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

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TestAmerica
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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice)	Samplers Name (Printed)	Site/Project Identification
Ian Hobson	FAR	DEC - Brooklyn 5200
Company: EAR	P. O.# Site # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYS DEC DKQP: ☐
Address: 925 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☑ 72 hr	
Phone: (631) 447-4700 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)										LAB USE ONLY Sample Numbers
					TCL VOCs 8260	TAL TAL/MSD									
SB-2_0-1	7/6/17	953	Soil	3	X	X									
SB-2_1-2	|	955	|	1	X										
SB-2_2-3	|	959	|	|	H										
SB-3_0-1	|	1003	|	|	X										
SB-4_0-1	|	1010	|	|	X										
SB-5_0-1	|	1016	|	|	X										
SB-5_1-2	|	1028	|	|	X										
SB-5_2-3	|	1032	|	|	H										
SB-6_0-1	|	1038	|	|	X										
SB-X	|	|	|	|	X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____				Soil: 1 Water: /											

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
Ian Hobson	EAR	7/6/17 | 1445	1)	
Relinquished by 2)	Company	Date / Time |	Received by 2)	Company
Relinquished by 3)	Company	Date / Time |	Received by 3)	Company
Relinquished by 4)	Company	Date / Time |	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

DEC - Brooklyn, NY 7/6/11

Start: 500 Oil: ~~fire~~ Lunch: 1500-1530 Off: 1530 Est: 1900

Purpose: Conduct soil & Gw Sampling to 3' bgs @ proposed locations.

On Site: MF/EL/JPL (EAR, Tech/Foreman/Geo)
Vinnie Barber (EA, on site rep)

Equip: 16F150, walking wheel, PID, YSI, GP, generator, Camera (PCP)

Weather: ↑70's, Scattered Showers

Notes
- Travelled w/ MF/EL to/from site
- PID zero & span calibrated prior to use
- Went through orientation/tailgate safety meeting w/ on site H&S officer
- Did quick site walk w/ V. Barber
- Access to work zone is via secured ~~ladder~~ gate
- After measuring out proposed sampling area, noted that there is not enough room for the proposed 3 rows of 10 points on a 3x3 meter grid, as the S most row is located over slabs of concrete. Spoke w/ V. Barber, who said to cut the (10) points. Also mentioned how some of the side points were covered by ~~pile~~ pile.

SB-1 blacktop, Granite

SB-2
0-1' @ 955 *MS/MSD* PID 0.1 ppm
Brown F Sand, little M; moist, no SRO
1-2 @ 957 *Dup* *MP-X* PID 2.6 ppm
Brown same, wet
2-3 @ 97 PID 10.2 ppm
Brown same, wet

SB-3
0-1 @ 1003 PID 2.3 ppm
Brown same; moist
1-2' @ —
- attempted 4 times, rejection each time, concrete

SB-4
0-1 @ 1010 PID 1.2 ppm
Br F Sand, little M, trC, tr F gravel; moist
1-2 @ —
- 4 rejections, concrete/rock

SB-5
0-1 @ 1016 PID 2.6
Brown same

DEC - Brown

SB-5 cont

1-2' @ 1025 8 attempts PID 2.0 ppm

Brown Fine

2-3 @ 1032 PID 2.5 ppm

Black Same

SB-6

0-1 @ 1238 PID 1.3 ppm

Brown F Sand, trM; moist

1-2 @ 1240

Petrification ; Hives

SB-7

0-1 @ 1050 PID 2.7 ppm

Brown Same

1-2 @ 1055 PID 1.4 ppm

Brown Same

2-3 @ 1100 PID 3.5 ppm

Brown Same

SB-8

0-1 @ 1105 PID 2.8 ppm

Brown F Sand, trM; moist

1-2 @ 1105 PID 3.8 ppm

Brown Same; moist

SB-8 Cont

2-3 @ 1105 PID 2.2 ppm

Brown Same; moist

SB-9

0-1 @ 1145 *MS/MSD* PID 3.3

Brown Same

1-2 @ 1148 *Dup = SB-Y* PID 1.6

Brown Same

2-3 @ 1151 PID 2.3

Brown Sar

SB-10 - blocked by Granite Slab

SB-11

0-1 @ 1154 PID 6.8 ppm

Brown Same

1-2 @ 1155 PID 5.6 ppm

Brown Same

2-3 @ 1157 PID 4.1 ppm

Brown Same

SB-12

0-1 @ 1201 *Dup = SB-Z* PID 14.6

Brown Same; wet

DEC Brooklyn 5280 7/6/17

SB-12 cont

1-... @ 1203 *MS/MSD* PID 0.1 ppm
Brown same; wet

2-3 @ 1205 PID 6.- ppm
Brown same; wet

SB-13

2-1 @ 1140 PID 21.3 ppm
Brown same, moist, fi odor

1-2 @ 1211 PID 42.6 ppm
Brown same; wet, odor

2-3 @ 1213 PID 71.2 ppm
Brown same; wet, odor

GWS SB-13

DTV: 1.31' bgs, TWD: 3.01' bgs
-Poor recharge, could not collect sample
→ was installed to 3.01' bgs w/ 1" PVC gravel pack to 1' bgs & bentonite 1'-10" bgs

Notes cont from p.39

large slabs of granite, v. Barber said to skip those points as well.
- As discussed w/ I. Hofmann, will not spend too much time on any 1 point, due to the volume of points, if we keep hitting rejection we will move on to the next point.
- Test America Courier on site ~1420-1445 to pick up samples & drop off extra cooler w/ bottles & bubble bags.
- A total of 27 discrete samples were collected w/ 3 dupes & 3 MS/MSDs
- As discussed w/ I. Hofmann, will not collect YSI readings tomorrow, & will collect GW samples w/o purging

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Friday, 7/17
Weather: overcast, scattered showers. Heavy rain at 10:30
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Edgar Lucero (technician)
Onsite Time: 07:00 (JPL), 07:30 (BCC, EL)
Offsite Time: 15:30 (JPL), 12:00 (BCC, EL)

Attended site tailgate safety meeting on arrival.

EAR completed soil sampling activities at a total of two locations: SB-15 and SB-18.

As requested by the onsite EA rep, the boring at SB-15 was advanced to 6.5 feet below grade surface (BGS) using a stainless-steel hand auger. Soil samples were collected from 0-1 feet BGS, 1-2 feet BGS, 2-3 feet BGS, and 5.5-6.5 feet BGS at this location. SB-18 was advanced to approximately 5.5-feet BGS using a stainless-steel hand auger. Soil samples were collected from 0-1 feet BGS, 1-2 feet BGS, and 2-3 feet BGS at this location.

At SB-15, EAR advanced a 2-foot length of 1-inch diameter, 20-slot PVC screen to approximately 6-feet below grade in order to collect a groundwater sample. At SB-18, EAR advanced a 2-foot length of 1-inch diameter, 20-slot PVC screen to approximately 5-feet below grade.

Groundwater samples were collected at SB-13 (installed 7/6) and SB-15 using peristaltic pumps. Due to very poor recharge at both locations, water samples were collected without a prior purge.

Heavy rain from ~10:30-11:00 resulted in flooding of the work zone. Further sampling activities were cancelled for the day by EA. EAR personnel EL and BCC left site at 12:00. JPL remained onsite until 15:30 in order to relinquish samples to the laboratory courier.

All boring and sampling equipment contacting soil and/or groundwater was decontaminated between each sample. Decontamination consisted of gross contaminant removal and hexane rinse followed by Liquinox wash and distilled water rinse.

EAR collected a total of 8 soil samples (including one blind duplicate) and 3 aqueous samples (including one rinsate blank[1]). All samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of PCB's via EPA Method 8082 at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

Geologist's field notes and chain of custody forms are attached.

[1] One rinsate blank collected 7/6/17 was also submitted to the lab on 7/7/17.

DEC-Brooklyn5200 7/7/17

Start: 500 on: 700 Lunch 1500-1530 off 1530 End 1530

Purpose: continue soil & GW sampling

On site: BCC/EL/JPL (EAR, Tech/Foreman/Geo)
V. Barber (EA, on site rep).

Equip: POV (Rav 4), camera (PCP), PID #18, GP, Generator

Weather, overcast, ↑ humidity, scattered light rain
Heavy rain @ ~1025

Notes
- V. Barber on site upon arrival
- BCC/EL on site 730
- Sat in for end of PAL (construction company) morning safety meeting
- PID calibration checked prior to use
- Sampling equipment cleaned w/ Hexane & Liquinox & rinsed w/ distilled H_2O between samples
- Heavy rain ~1025 → ~1100, caused flooding in work zone (crew was ~~evacuated from~~ not in work zone during this time). As discussed w/ V. Barber & I. Hofmann no more sampling can/will be conducted today.

SB-13
GWS @ 10
DTW: 1.48 TWD 3.01

SB-15
0-1' @ 910 * MS/MSD * PID 5.8 ppm
Brown F Sand, little M, little C, tr gravel; wet, odor
1-2' @ 914 * Dupe = SB-XX * PID 142 ppm
Brown same; wet, strong odor
2-3' @ 918 PID 1201.3 ppm
Brown same; wet, strong odor
5.5'-6.5' @ 928 PID 107.2 ppm
Brown silty Fine sand; wet, strong odor
GWS @ 950
DTW: 3.95 TWD: 6.23

SB-18
0-1' @ 958 PID 1.0 ppm
Brown F Sand, little M, trC, tr gravel; moist, no odor
1-2' @ 1000 PID 3.0 ppm
Brown same ↑; moist, no odor
2-3' @ 1010 PID 1.2 ppm
Brown F Sand, trM; moist, no odor

DEC-Brooklyn5200 7/7/17 ~~7/10/17~~

Notes cont

- After majority of rain had passed (~1105) went into work zone to pack up all remaining equipment.
- After packing up EL/Bcc left site @ ~1200 to return to office. JPL to remain for courier on site pick up
- Courier (T.A.) on site by 1450, off by 1505 to pick up samples

DEC-Brooklyn5200 7/10/17

Start: 500 On: 730 Lunch: 1330-1400 Off: 1460 End:

Purpose: Finish SOV & GW sampling

On site: JPL/EL/Bcc (EA, Geo/Foreman/Tech)
V. Barber (TEA, on site Rep)

Equip: T&T 150, PID #18, Camera (Rep), GP, Generator

Weather: 70's, partly cloudy

Notes:

- Vinnie Barber on site upon arrival/departure
- PID calibration checked prior to use
- Sampling equipment cleaned w/ Hexane & Liquinox, D.I. stored H2O between samples
- After completion of sampling, sample locations were marked w/ lengths of caution tape, half buried in hole, half streaming above grade. As requested by V. Barber.

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Jon Hofmann	Samplers Name (Printed) EAR	Site/Project Identification DEC - Brooklyn 5200
Company EAR	P. O.# Sub # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC DKQP: ☐
Address 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City Patchogue State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 Hr	
Phone (631) 447-1400 Fax		

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs Vol 8082	MS/MSD									LAB USE ONLY Sample Numbers
SB-15_0-1	7/7/17	910	Soil	3	X	X									
SB-15_1-2		918		1	X										
SB-15_2-3		928			X										
SB-18_0-1		958			X										
SB-18_1-2		1000			X										
SB-18_2-3		1010			X										
SB-15_5.5-6.5		928			X										
SB-XX	7/7/17		Soil	1	X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other ____, 7 = Other ____			Soil:		2										
			Water:		—										

Special Instructions Category B deliverables requested. Water Metals Filtered (Yes/No)? ____

Relinquished by	Company	Date / Time	Received by	Company
1) Adam Yehn	EAR	7/7/17 1500	1)	
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

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TestAmerica
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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice)	Samplers Name (Printed)	Site/Project Identification
Jon Hofmann	EAR	DEC Brooklyn 5200
Company	**P.O. #**	**State (Location of site):** NJ: ☐ NY: ☑ Other:
EAR	Site # 224015	**Regulatory Program:** NYS DEC DKQP: ☐
Address	**Analysis Turnaround Time**	
225 Atlantic Ave	Standard ☐	
City State	Rush Charges Authorized For:	
Patchogue NY	2 Week ☐	
Phone Fax	1 Week ☐	
(631) 447-4400	Other ☑ 72 Hr	

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs via 8082										LAB USE ONLY Project No: / Job No: / Sample Numbers
Rinse blank	7/6/17	830	Aq	4	X										
Rinse Blank	7/7/17	830	"	"	"										
SB-15_GW	7/7/17	950	✓	✓	✓										
SB-13 GW	7/7/17	1020	Aq	4	X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:	✓										
6 = Other _____, 7 = Other _____				Water:	1										

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	7/7/17 | 1500	1)	
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Monday, 7/10/17
Weather: 70°F+, partly cloudy
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Edgar Lucero (technician)
Onsite Time: 07:30
Offsite Time: 14:00

EAR completed soil sampling activities at a total of eight locations: SB-14, SB-16, SB-17, SB-19, SB-31, SB-32, SB-33, and SB-34.

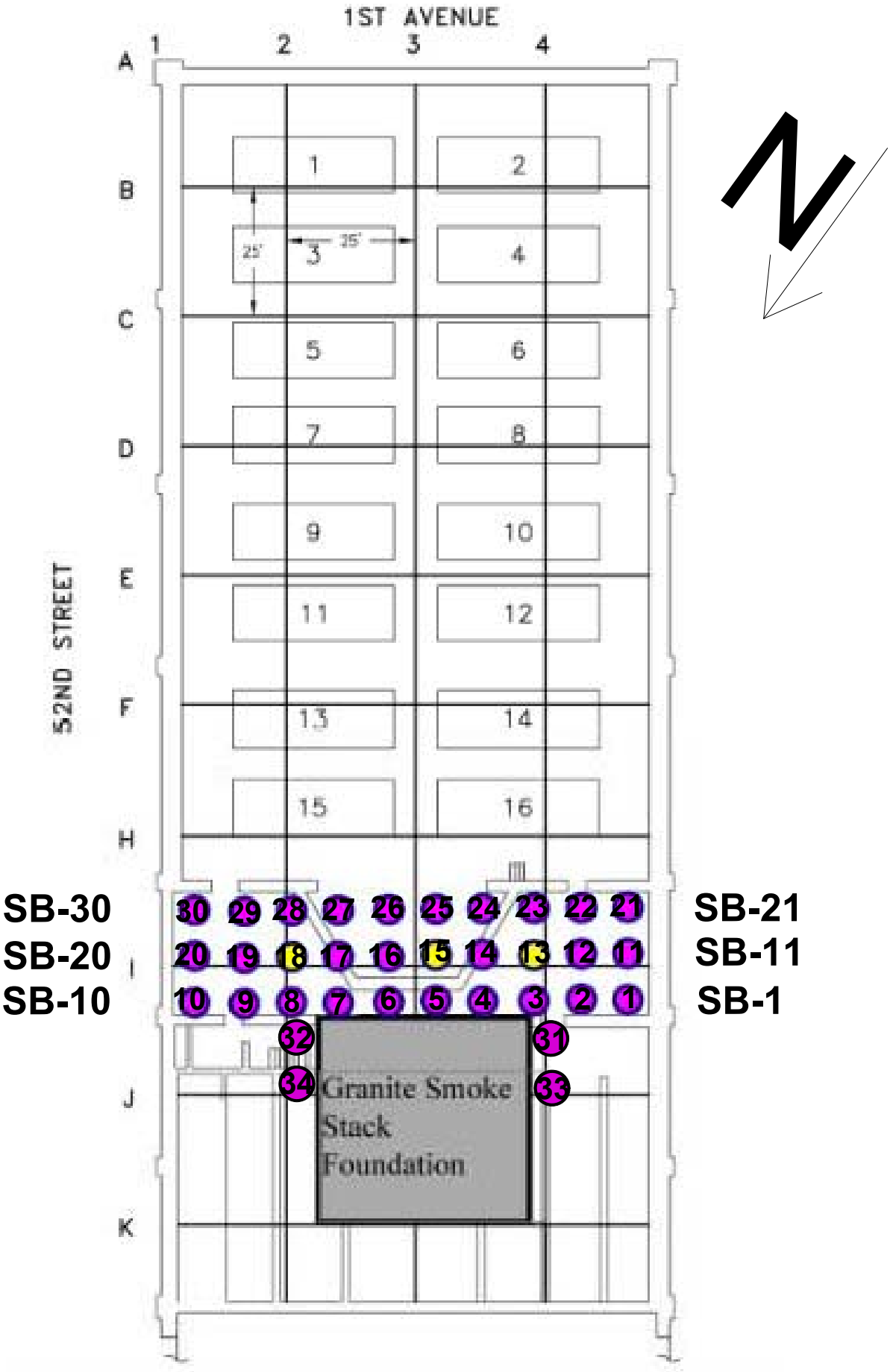
All of the above borings were advanced to 3-feet below grade surface (BGS) using a stainless-steel hand auger. Soil samples were collected from 0-1 feet BGS, 1-2 feet BGS, and 2-3 feet BGS at these locations. SB-31 through SB-34 were added to the sampling plan in the field by the onsite EA representative. Locations are illustrated in the attached map.

A groundwater sample was collected at SB-18 (installed 7/7) using a peristaltic pump. Due to very poor recharge, the water sample was collected without a prior purge.

All boring and sampling equipment contacting soil and/or groundwater was decontaminated between each sample. Decontamination consisted of gross contaminant removal and hexane rinse followed by Liquinox wash and distilled water rinse.

EAR collected a total of 27 soil samples (including three blind duplicates) and 2 aqueous samples (including one rinsate blank). All samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of PCB's via EPA Method 8082 at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

Geologist's field notes and chain of custody forms are attached.


1ST AVENUE
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SB-1
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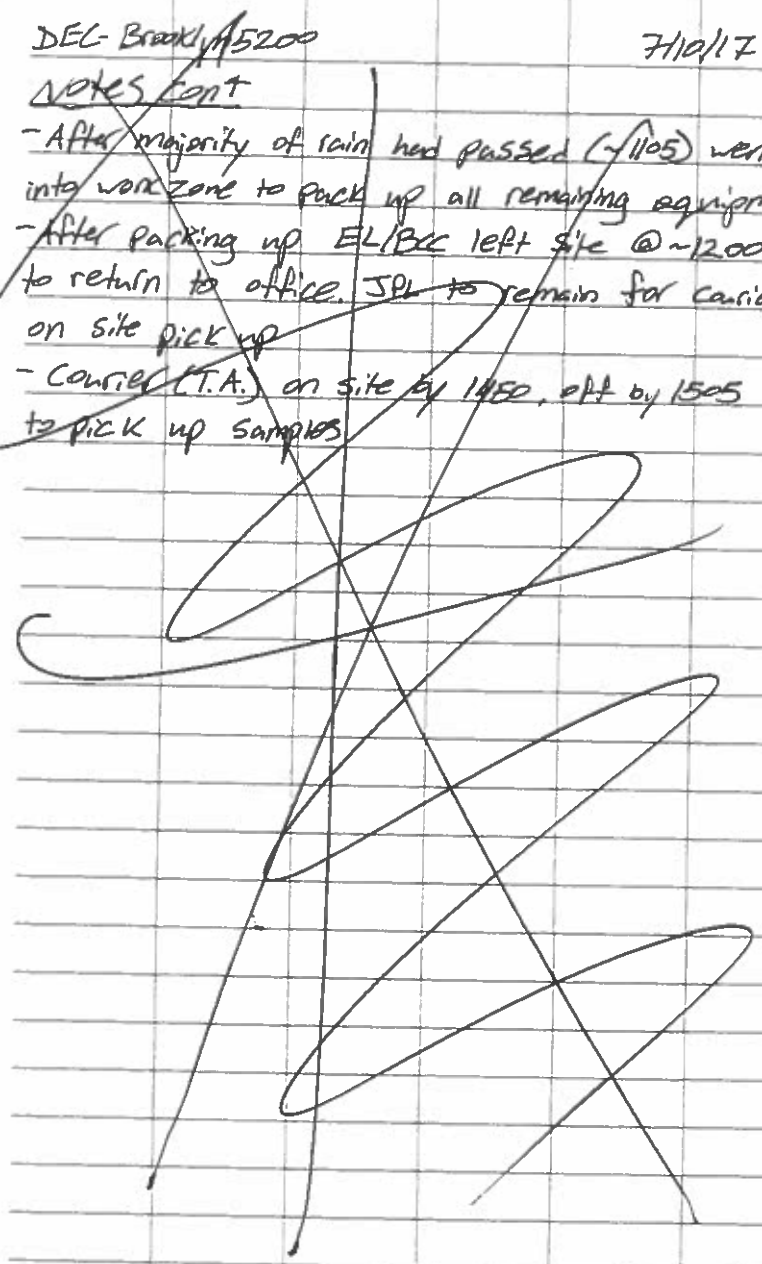
20 19 18 17 16 15 14 13 12 11
10 9 8 7 6 5 4 3 2 1
32
31
34
33
Granite Smoke Stack Foundation

DEC-Brooklyn5200 7/10/17

Notes Cont

- After majority of rain had passed (~1105) went into work zone to pack up all remaining equipment.
- After packing up EL/BCC left site @ ~1200 to return to office. JPL to remain for courier on site pick up
- Courier (T.A.) on site by 1450, off by 1505 to pick up samples



DEC-Brooklyn5200 7/10/17

Start: 500 On: 730 Lunch: 1330-1400 Off: 1460 Est:

Purpose: Finish Soil & GW Sampling

On Site: JPL/EL/BCC (EAR, Crew/Foreman/Tech)
V. Barber (EA, onsite Rep)

Equip: 1/2 F150, PID #18, Camera (REP), GP, Generator

Weather: 70's, partly cloudy

Notes:

- Vinnie Barber on site upon arrival/departure
- PID calibration checked prior to use
- Sampling equipment cleaned w/ Hexane & Alconox, & distilled H_2O between samples
- After completion of sampling, sample locations were marked w/ lengths of caution tape, half buried in hole, half streaming above grade AS requested by V Barber.

DEC - Brooklyn5200 7/6/17

SB-14

0-1 @ 825 MS/MSD PID 61.2 ppm
Brown F Sand, Some M, trC, tr gravel; moist, no odor

1-2 @ 831 Dup = SB-YY PID 9.1 ppm
Brown F Sand, trM, tr gravel, moist, no odor

2-3 @ 834 PID 17.3 ppm
Brown Same ↑, moist, odor

SB-15

0-1 @ 837 PID 1.2 ppm
Brown Same ↑, moist, no odor

1-2 @ 840 PID 3.9 ppm
Brown Same ↑, moist, no odor

2-3 @ 845 PID 1.3 ppm
Brown Same ↑; mast, no odor

SB-16

0-1 @ 848 PID 6.2 ppm
Brown Same ↑ moist, no odor

1-2 @ 851 PID 6.3 ppm
Brown Same ↑; moist, no odor

2-3 @ 854 PID 7.2 ppm
Brown Same ↑; moist, no odor

SB-19

0-1 @ 912 MS/MSD PID 0.3 ppm
Brown F Sand, Some M, trC, tr gravel; moist, no odor

1-2 @ 915 Dup = SB-ZZ PID 0.0 ppm
Brown F Sand, trM, tr gravel; moist

2-3 @ 917 PID 0.3 ppm
Brown Same ↑; moist, no odor

SB-31

0-1 @ 922 PID 96 ppm
Brown Same ↑; moist, no odor

1-2 @ 924 PID 2.6 ppm
Brown Same ↑; moist, no odor

2-3 @ 931 PID 0.2 ppm
Brown same ↑; moist, no odor

SB-32

0-1 @ 935 PID 3.8 ppm
Brown same ↑, moist, no odor

1-2 @ 936 PID 1.6 ppm
Brown same ↑; moist, no odor

2-3 @ 937 PID 1.9 ppm
Brown same ↑; moist, no odor

DEC-Backlum 5200 7/6/17

SB-18_GW

Sample @ 950

DTW: 4.97 TWD 5.21'

SB-33

0-1 @1006 * MS/MSD * PID 1.2

Brown Same ↑, moist, no odor

1-2 @1007 * Dup = SB-XXX * PID 0.5

Brown Same ↑, moist, no odor

2-3 @1008 PID 1.3

Brown Same ↑, moist, no odor

SB-34

0-1 @1030 PID 4.1

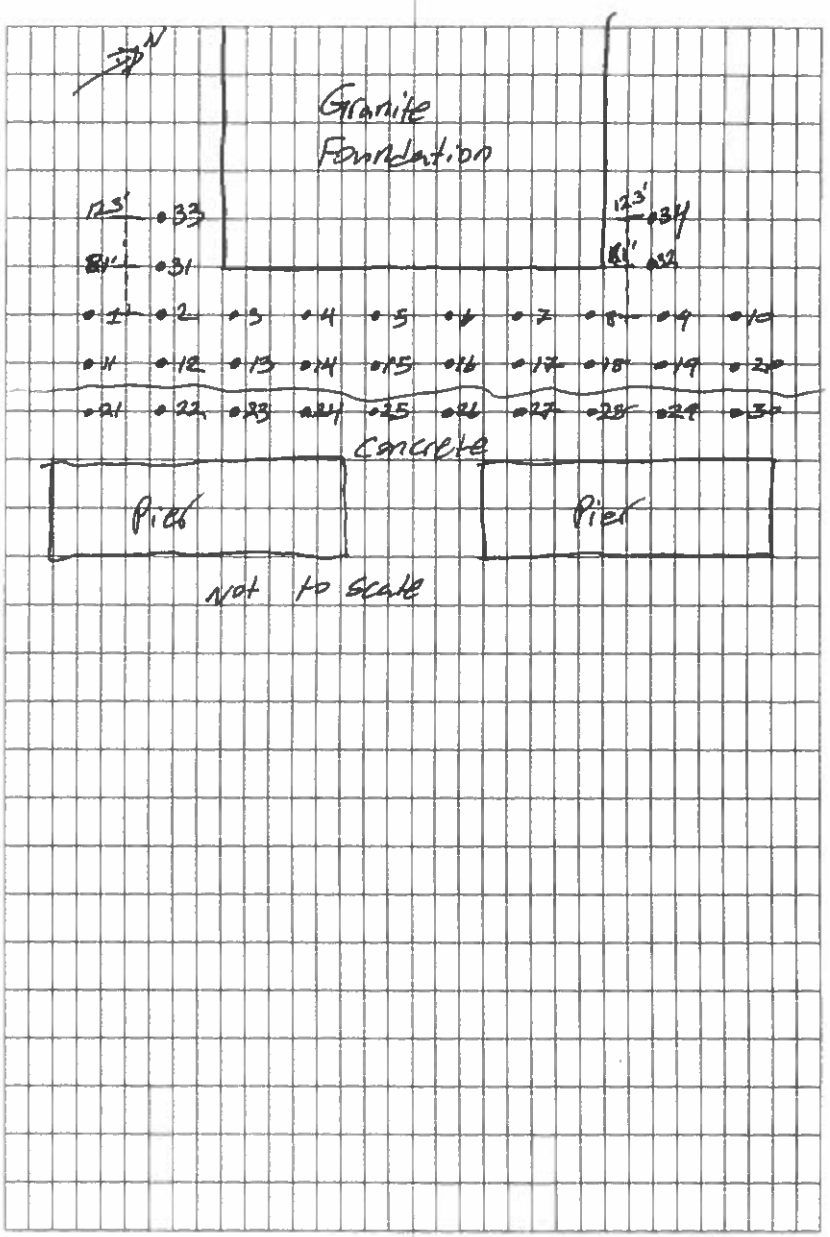
Brown Same ↑, moist, no odor

1-2 @1033 PID 2.7

Brown same ↑, moist, no odor

2-3 @1036 PID 0.9

Brown same ↑, moist, no odor



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TestAmerica
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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Jan Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P.O. #: Ste# 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYS DEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 Hr	
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	Pb Bs Via 8082	MS/MSD									LAB USE ONLY Sample Numbers
SB-11_0-1	7/10/17	825	Soil	3	X	X									
SB-14_1-2		831		1	X										
SB-14_2-3		834			X										
SB-17_0-1		837			X										
SB-17_1-2		840			X										
SB-17_2-3		845			H										
SB-11_0-1		848			X										
SB-16_1-2		851			X										
SB-16_2-3		854			H										
SB-YY	↓	~	↓	↓	X										

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____

Soil: Water:

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	7/10/17 1300	1)	
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

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TestAmerica
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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice)	Samplers Name (Printed)	Site/Project Identification
Ian Hofmann	EAR	DEC - Brooklyn 152200
Company EAR	**P.O. #** Site # 224015	**State (Location of site):** NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYS DEC DKQP: ☐
Address 225 Atlantic Ave	**Analysis Turnaround Time** Standard ☐	
City Patchogue **State** NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 Hr	
Phone (631) 447-6150 **Fax**		

Sample Identification	Date	Time	Matrix	No. of Cont.	PAHs Via 8082	MS/MSD									LAB USE ONLY Sample Numbers
SB-19_0-1	7/10/17	912	Soil	3	X	X									
SB-19_1-2		915		1	X										
SB-19_2-3		917			H										
SB-31_0-1		922			X										
SB-31_1-2		924			X										
SB-31_2-3		931			H										
SB-32_0-1		935			X										
SB-32_1-2		936			X										
SB-32_2-3		937			H										
SB-22	↓	—	↓	↓	X										

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH Soil: 1
6 = Other _____, 7 = Other _____ Water: 1

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	7/10/17 1300	1)	
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P.O. #: Site # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYS DEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 Hr	
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs, Via 8082	MS/MSD									LAB USE ONLY Sample Numbers
SB-33_0-1	7/10/17	1006	Soil	3	X	X									
SB-33_1-2		1007		1	X										
SB-33_2-3		1008			H										
SB-34_0-1		1030			X										
SB-34_1-2		1033			X										
SB-34_2-3		1036	↓	↓	H										
Rinse blank		800	Aq	4	X										
SB-18_GW	↓	950	Aq	4	X										
SB-XXX	7/10/17		Soil	1	X										

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____

Soil: 1
Water: 1

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) Ian Hofmann	EAR	7/10/17 1300	1)	
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578)

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Patchogue, NY 11772
Office: 631.447.6400
Fax: 631.447.6497
Toll-Free: 1.888.EAR.6789

www.Enviro-Asmnt.com

ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Friday, 7/21/17
Weather: 90°F+, sunny
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Augusto Duchimaza (technician)
Onsite Time: 08:00
Offsite Time: 16:00

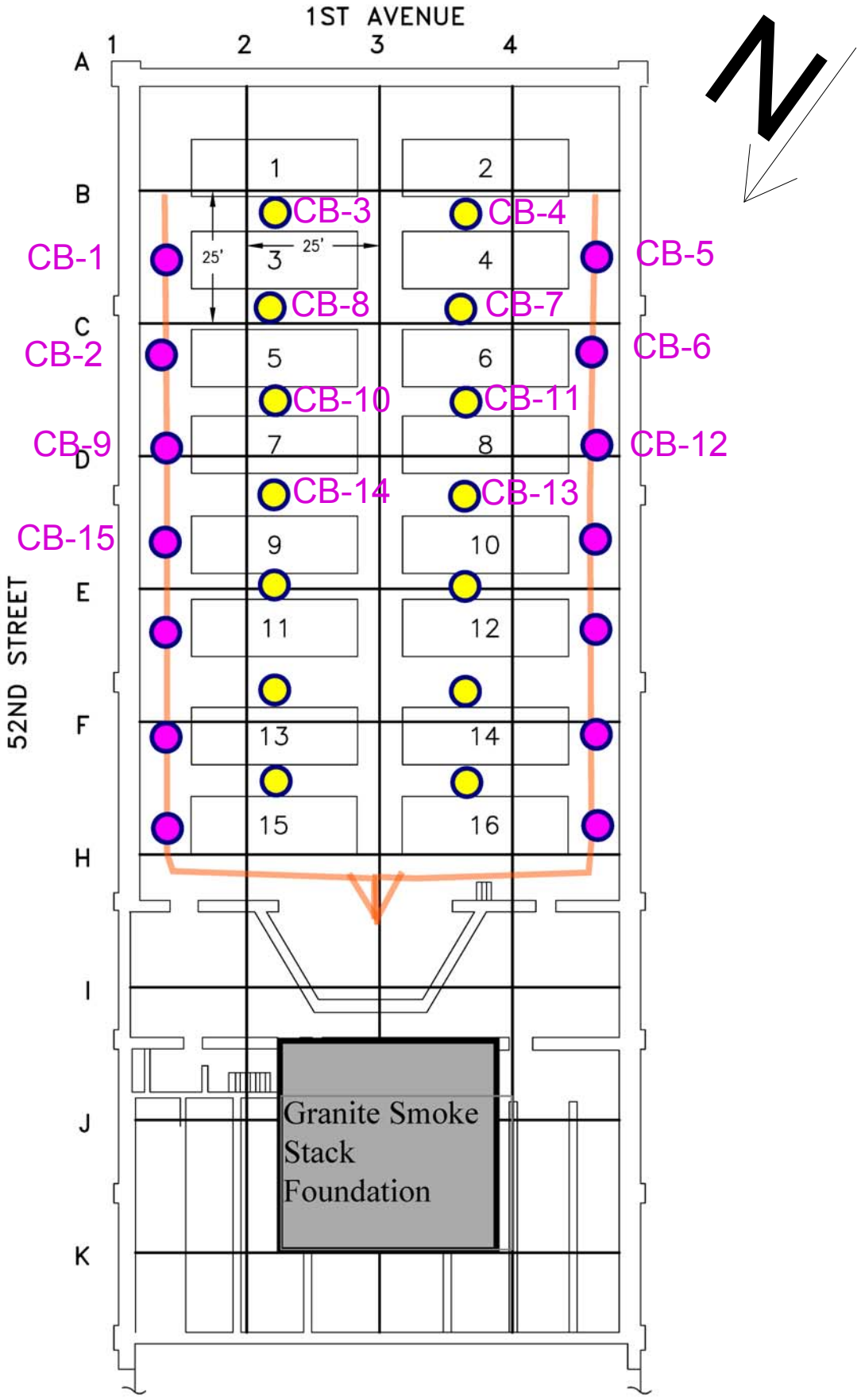
EAR completed concrete sampling activities at a total of fifteen locations: CB-1 through CB-15.

To collect the above samples, a drill with a carbide masonry bit was advanced to 6-inches below grade surface (BGS). At all locations, concrete samples (pulverized concrete drill spoils) were collected from 0-3 inches BGS and 3-6 inches BGS. Locations are illustrated in the attached map.

All boring and sampling equipment was decontaminated between each sample. Decontamination consisted of gross contaminant removal and hexane rinse followed by Liquinox wash and distilled water rinse.

EAR collected a total of 33 concrete samples (including three blind duplicates) and 1 aqueous sample (rinsate blank). All samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of PCB's via EPA Method 8082 at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

Geologist's field notes and chain of custody forms are attached.


1ST AVENUE
52ND STREET
1
2
3
4
A
B
C
D
E
F
H
I
J
K
25'
25'
CB-1
CB-2
CB-3
CB-4
CB-5
CB-6
CB-7
CB-8
CB-9
CB-10
CB-11
CB-12
CB-13
CB-14
CB-15
Granite Smoke Stack Foundation

DEC-Brooklyn5200 7/21/17

Start: 500 on: 800 Lunch: 1530-1600 off: 1600 End: 1945

Purpose: conduct concrete sampling for analysis for PCBs

on site: - BCC/AD/JPL (EAR, Foreman/Tech/Enviro Tech)

Equip: 16 F150, PID #18, Generator, Hammer drill

Weather: 90's, Sunny

Notes

- Vinnie B. on site upon arrival
- PID zero & span calibrated prior to use
  Ambient PID readings = 0.0ppm
- concrete samples were collected using Bosch hammer drill equiped w/ a masonary drill bit. Half trays (the cooking kind) w/ holes cut in them were used to collect the powder generated.
- All pertinent equipment (drill bit, half-trays etc) were washed w/ Hexane, Liquinox, & Distilled H_2O, before Start of Sampling, between Samples, & after completion of days sampling.
- Rinse blank collected @ 830
- Decon water deposited into P.A.L. on site container

CB-1_0-3	@910 *Dup = CB-X*	PID 0.0ppm
CB-1_3-6	@920	PID 0.0ppm
CB-2_0-3	@930	PID 0.0ppm
CB-2_3-6	@930	PID 0.0ppm
CB-3_0-3	@942	PID 0.0ppm
CB-3_3-6	@950	PID 0.0ppm
CB-4_0-3	@1001	PID 0.0ppm
CB-4_3-6	@1010	PID 0.0ppm
* Water Break *		
CB-5_0-3	@1045 * MS/MSD *	PID 0.0ppm
CB-5_3-6	@1050	PID 0.0ppm
CB-6_0-3	@1055	PID 0.0ppm
CB-6_3-6	@1100	PID 0.0ppm
CB-7_0-3	@1104 *Dup = CB-Y*	PID 0.0ppm
CB-7_3-6	@1107	PID 0.0ppm
CB-8_0-3	@1113 * MS/MSD	PID 3.7ppm
CB-8_3-6	@1118	PID 0.0ppm
* Water Break *		

DEC-Brooklyn 5200 7/21/17

CB-9_0-3	@ 1208 * MS/MSD *	PID 30.9 ppm
CB-9_3-6	@ 1214	PID 45.8 ppm
CB-10_0-3	@ 1218 * Dup = CB-Z *	PID 0.0 ppm
CB-10_3-6	@ 1222	PID 0.0 ppm
CB-11_0-3	@ 1226	PID 0.0 ppm
CB-11_3-6	@ 1229	PID 0.0 ppm
CB-12_0-3	@ 1235	PID 0.0 ppm
CB-12_3-6	@ 1242	PID 0.0 ppm
* water break *		
CB-13_0-3	@ 1322	PID 0.0 ppm
CB-13_3-6	@ 1328	PID 0.0 ppm
CB-14_0-3	@ 1333	PID 0.0 ppm
CB-14_3-6	@ 1338	PID 0.0 ppm
CB-15_0-3	@ 1345	PID 0.0 ppm
CB-15_3-6	@ 1350	PID 0.0 ppm

Notes cont

- Due to ↑ heat, coupled w/ poor ventilation in work zone (no breeze) frequent water breaks were taken to rehydrate/avoid heat exhaustion.

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THE LEADER IN ENVIRONMENTAL TESTING

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hafmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC- Brookl/115200
Company: EAR	P. O. #: ~~S~~ e# 22H015	State (Location of site): NJ: ☐ NY: ☒ Other:
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	Regulatory Program: NYSDEC DKQP: ☐
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐	
Phone: (631) 447-1400 Fax:	Other ☒ 72 Hr	

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs Via 8082	MS/MSD									LAB USE ONLY Sample Numbers
CB-1_0-3	7/21/17	910	Soil	1	X										
CB-1_3-6		920		1	H										
CB-2_0-3		930		1	X										
CB-2_3-6		935		1	H										
CB-3_0-3		942		1	X										
CB-3_3-6		950		1	H										
CB-4_0-3		1001		1	X										
CB-4_3-6		1010		1	H										
CB-5_0-3		1045		3	X	X									
CB-5_3-6	↓	1050	↓	1	H										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil:					1										
6 = Other _____, 7 = Other _____ — Water:					/										

Job No:

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Yohn	EAR	7/_1117 | 1440	1)	
2)		|	2)	
3)		|	3)	
4)		|	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

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Edison, New Jersey 08817
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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Jan Hofmann	Samplers Name (Printed) EAR	Site/Project Identification DEC- Brooklyn5200
Company EAR	P. O. # site # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
Address 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	Regulatory Program: NYSDEC
City Patchogue State NY	Rush Chrages Authorized For: 2 Week ☐	
Phone (631)447-6400 Fax	1 Week ☐ Other ☒ 72 Hr	

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs via 8082	MS/MSD								LAB USE ONLY Sample Numbers
CB-1_0-3	7/21/17	1055	Soil	1	X									
CB-1_3-6		1100		1	H									
CB-7_0-3		1104		1	X									
CB-7_3-6		1107		1	H									
CB-8_0-3		1113		3	X	X								
CB-8_3-6		1118		1	H									
CB-9_0-3		1208		3	X									
CB-9_3-6		1214		1	H									
CB-10_0-3		1218		1	X									
CB-10_3-6		1222		1	H									
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____				Soil:										
				Water:										

Job No:

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Kolm	EAR	7/21/17 1440	1)	
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Jon Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P. O. #: site # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
Address: 225 Atlantic Ave.	Analysis Turnaround Time: Standard ☐	Regulatory Program: NYSDEC DKQP: ☐
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 HR	
Phone: 631-447-4140 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs via 8082										LAB USE ONLY Project No: / Job No: / Sample Numbers
CB-11_0-3	7/21/17	1226	Soil	1	X										
CB-11_3-6	↓	1229	↓	↓	H										
CB-12_0-3		1235			X										
CB-12_3-6		1242			H										
CB-13_0-3		1322			X										
CB-13_3-6		1328			H										
CB-14_0-3		1333			X										
CB-14_3-6		1338			H										
CB-15_0-3		1345			X										
CB-15_3-6	↓	1350	↓	↓	H										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH / 6 = Other _____, 7 = Other _____				Soil:	1										
				Water:	/										

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Kehn	EAR	7/21/17 1440	1)	
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P. O. #: Site # 224015	State (Location of site): NJ: ☐ NY: ☑ Other:
Address: 225 Atlantic Ave.	Analysis Turnaround Time: Standard ☐	Regulatory Program: NYSDEC DKQP: ☐
City: Patchogue, State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 HR	LAB USE ONLY: Project No: / Job No:
Phone: 631 447-6420 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs via 8082	ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)	Sample Numbers
CB-X	7/21/17	/	Soil	1	X		
CB-Y	↓	/	↓	1	X		
CB-Z	↓	/	↓	1	Y		
(SPL) ~~Rinsate blank~~ Rinse blank	↓	830	Aq	4	X		

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil: / Water:
6 = Other _____, 7 = Other _____

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Zehn	EAR	7/21/17 1440	1)	
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Monday, 7/24/17
Weather: 70°F+, light rain with periods of heavy rain
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Augusto Duchimaza (technician)
Onsite Time: 08:30
Offsite Time: 14:30

Due to rain and standing water in the proposed concrete sampling area, no work was conducted within the excavation. Instead, EAR conducted groundwater sampling activities at existing monitoring wells.

EAR completed groundwater sampling activities at a total of three locations: MW-3, MW-12, and MW-14. Locations are illustrated in the attached map.

MW-13 could not be located by either EAR or the onsite contractor. Relatively new asphalt paving was observed in the area, so it is possible that this well has been paved over. The MW-10 manhole was found damaged. Upon opening this manhole, field personnel found no well casing in the manhole.

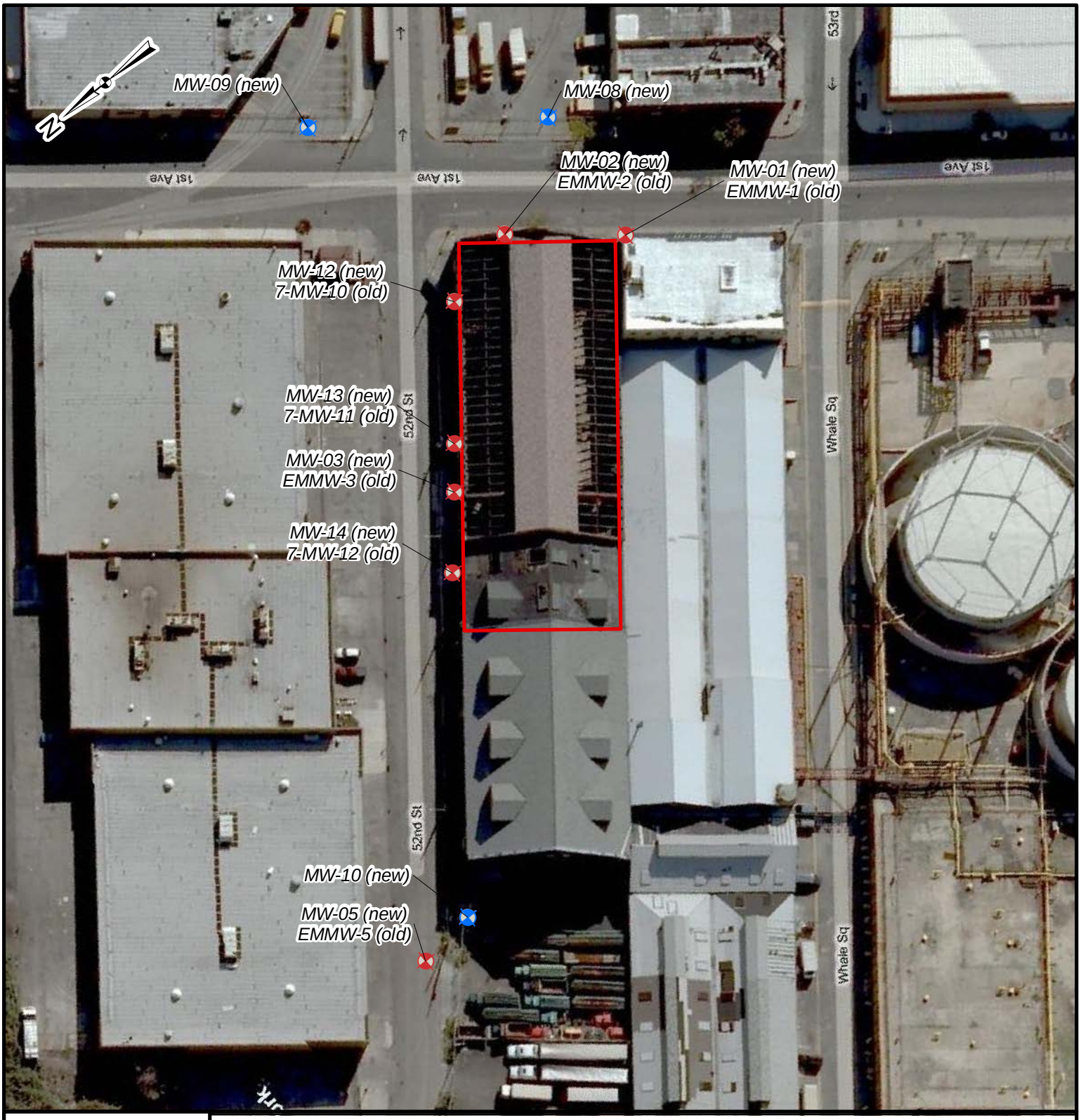
Groundwater samples were collected utilizing peristaltic pumps and HDPE tubing. A new length of HDPE tubing was utilized at each well. Upon opening each well, total VOC's were monitored at the wellhead using a photo-ionization detector (PID). Prior to sample collection, depth-to-water and total well depths were gauged to the nearest 0.01 foot and recorded. A water quality meter was used to monitor water quality parameters. Each monitoring well was purged of at least one standing well volume then screened for pH, temperature, and conductivity until stabilization was reached. Dissolved oxygen concentrations, and oxidation reduction potential (ORP) were recorded as well.

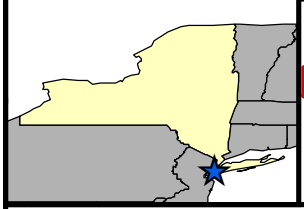
Downhole equipment such as water level meters were decontaminated between each well location. Decontamination consisted of gross contaminant removal, Liquinox wash, and distilled water rinse.

EAR collected a total of 4 aqueous samples (including one rinsate blank). All samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of VOC's via EPA Method 8260C, SVOC's via 8270, pesticides via 8081, PCB's via 8082, TAL metals via

6020/7470, total cyanide via 9012, and PFA's via modified 537. All samples were submitted for analysis at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

Geologist's field notes and chain of custody forms are attached.





Legend

- Building Footprint
- Monitoring Wells Installed by EA
- Existing Monitoring Wells

0 50 100 200 Feet

Source: Windows Live Maps
www.bing.com/maps

EMPIRE ELECTRIC
WORK ASSIGNMENT
BROOKLYN, NEW YORK

FIGURE 2
GROUNDWATER SAMPLE
LOCATIONS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
DFC	MJS	MJS	SEF	AS SHOWN	JULY 2009	14474.26	GIS/PROJECTS/ FIGURE2.MXD

Groundwater Sampling Sheet: Stabilization Purge Method

Site: DEC- Brooklyn5200

Date: 7/24/17

Techs: AD/BCC/SPL

Start Time: See W.O.

End Time:

Equipment: See W.O.

[check units on YSI and confirm that parameter is in the correct units]

WELL ID	Well Size (inches)	Total Well Depth (ft.)	Depth to Water (ft.)	Length of Column (ft.)	One Standing Water Well Volume (gal.)	Total Gallons Purged (gal.)	Time Sampled (hh:mm)	DO (mg/L)	Temp. (°C)	pH	ORP (mV)	Specific Conductance (uS/cm)	Head Space PID ~~NOTES~~ (ppm)
MW-12	2	29.32	18.98	10.34	1.86	5.0	935	2.68	17.84	5.96	112.8	1685	0.4
MW-03	4	30.15	16.38	13.77	9.12	10.0	1205	1.31	15.19	6.72	63.2	1124	1.1
MW-14	4	28.86	15.81	13.05	8.65	13.5	1308	1.76	15.25	7.20	31.9	1001	0.8

Well Size (inches)	0.5	0.75	1	1.5	2	4	6	8
Multiplier based on 4 well volume	0.06	0.11	0.18	0.42	0.7	2.65	6	10.4
Multiplier based on 1 well volume	0.015	0.0275	0.045	0.105	0.175	0.663	1.5	2.6

Purge a minimum of 1 well volume & then wait for stabilization

Tolerance for stability:

Specific Conductance (3%)

temperature (3%)

pH +/- 0.1 units

Record DO & ORP but DO NOT use for stability

Guidelines for Field Screening Values:

pH range = 5 - 9

Temperature range = 10 - 19 (except for VERY warm days - please try to keep purge container cool/shaded area)

DO range = less than 12 (unless very close to a sparge well)

If readings are not in this range please try to recalibrate (except for temp, which cannot be calibrated). If they remain out of range, please do not write the value on the sheet - it is an equipment error.

PLEASE CONTACT THE PMs IF THERE IS A PROBLEM. THIS DATA IS IMPORTANT AND INCORRECT DATA IS WORSE THAN NO DATA. WE REALLY APPRECIATE YOUR WORK TO KEEP E.A.R. A TOP COMPANY IN THE FIELD

[as of 06/05/17]

DEC-Brooklyn 5200 ~~Peak~~ 7/24/17

CB-9_0-3	@ 1208 * MS/MSD *	PID 30.9 ppm
CB-9_3-6	@ 1214	PID 45.8 ppm
CB-10_0-3	@ 1218 * Dup = CB-2 *	PID 0.0 ppm
CB-10_3-6	@ 1222	PID 0.0 ppm
CB-11_0-3	@ 1226	PID 0.0 ppm
CB-11_3-6	@ 1229	PID 0.0 ppm
CB-12_0-3	@ 1235	PID 0.0 ppm
CB-12_3-6	@ 1242	PID 0.0 ppm
* water break *		
CB-13_0-3	@ 1321	PID 0.0 ppm
CB-13_3-6	@ 1328	PID 0.0 ppm
CB-14_0-3	@ 1333	PID 0.0 ppm
CB-14_3-6	@ 1338	PID 0.0 ppm
CB-15_0-3	@ 1345	PID 0.0 ppm
CB-15_3-6	@ 1350	PID 0.0 ppm

Notes cont

- Due to ↑ heat, coupled w/ ~~poor~~ ventilation in work zone (no breeze) frequent water breaks were taken to rehydrate/avoid heat exhaustion.

DEC-Brooklyn 5200 7/24/17

Start: 515 on: 830 Lunch: ~~1330-1400~~ 1400-1430 off: 1430 End: 16

Purpose: ~~Continue~~ Concrete sampling & Conduct GW Sampling

On Site: JPL/Bcd/AD (EAR, Enviro Sci/Foreman/Tech)
Vinnie Barber (EA, On Site rep)

Equip: 16 F150, PID #18, GPS, Generator, Walking Wheel

Weather: 70's, light to heavy rain until ~1130

Notes

- Traffic due to rain delayed on site arrival.
- Travelled to/from site w/ BBC/AD
- PID calibration checked prior to use
  Ambient PID = 0.0 ppm
- Due to rain & standing water in proposed work zone, due to said rain, Concrete Sampling will not be conducted today. Instead will conduct GWS & locate monitoring wells.
- See associated GWS sheet for sample times, labelings, YSI readings, etc.
- Work halted from ~1000 → ~1110 due to heavy rain & strong winds creating unsafe work conditions.

DEC-Brooklyn 5200 7/24/17

Notes cont

- In total 3 wells were sampled: MW-12, 03, & 14.
- MW-13 could not be located, P.A.L. even moved steel plates so we could check underneath.
- MW-10 is damaged & is not able to be sampled.
- All other wells were located.
- Sampling equipment was cleaned w/ Liquinox between wells.
- Purge water was disposed in on site P.A.L. drum, w/ permission.
- T.A. Courier on site ~1355 ⇒ ~1405 to pick up samples.
- PFA samples were bagged & chained separately, Courier expressly informed about PFA samples.

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Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAK	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P.O.#: spill # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	Regulatory Program: NYSDEC
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72Hr	
Phone: (631) 447-4400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	8260C	8270D 8081B	7470A 6020A	9012B								LAB USE ONLY Sample Numbers
MW-12	7/24/17	935	Aq	12	4	6	1	1								
MW-03	↓	1205	↓	↓	4	6	1	1								
MW-14	↓	1308	↓	↓	4	6	1	1								
Rinse blank	7/24/17	1340	Aq	4	4											
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil:																
6 = Other _____, 7 = Other _____ — Water:					2	1	4	4/5								

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	7/24/17 1400	1)	T. A.
2)		/	2)	
3)		/	3)	
4)		/	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0814)

Massachusetts (M-NJ312), North Carolina (No. 578)

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC- Brooklyn 5200
Company: EAR	P.O.#: Spill # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 HR	
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PFAS										LAB USE ONLY: Project No: / Job No: / Sample Numbers
MW-12	7/24/17	935	Aq	2	X										
MW-03	↓	1205	↓	↓	X										
MW-14	↓	1308	↓	↓	X										
Rinse blank	7/24/17	1340	Aq	2	X										
					Soil: /										
					Water: 1										

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	7/24/17 1400	1)	
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Tuesday, 7/25/17
Weather: lower 70's (F), overcast
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Augusto Duchimaza (technician)
Onsite Time: 07:00
Offsite Time: 14:30

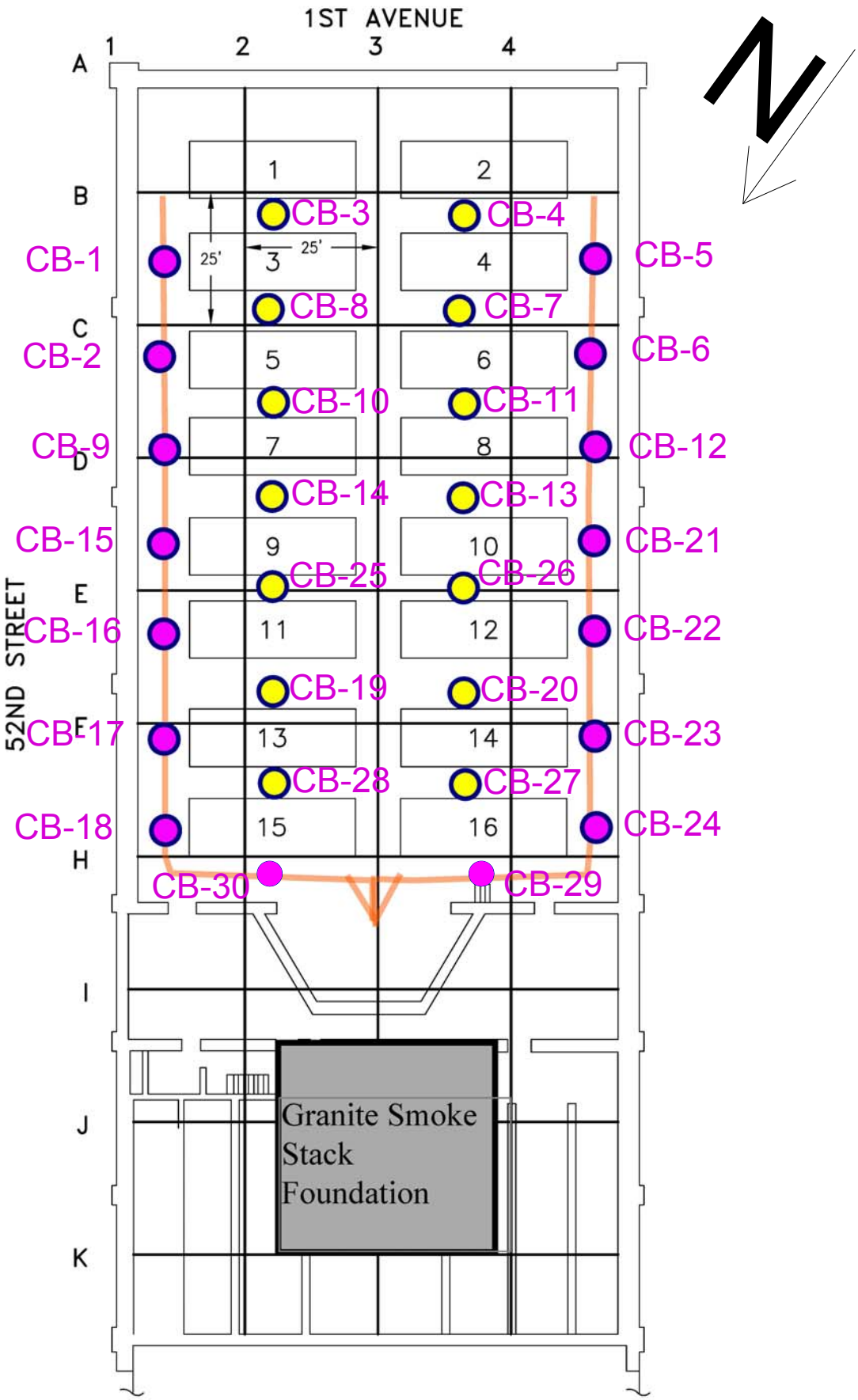
EAR completed concrete sampling activities at a total of sixteen locations: CB-16 through CB-30, and CB-9. Locations CB-29 and CB-30 were added to the sampling plan in the field by EA representative V. Barber. Location CB-9 was revisited in order to collect a sample for analysis of VOC's. Locations are illustrated in the attached map.

To collect the above samples, a drill with a carbide masonry bit was advanced to 6-inches below grade surface (BGS). At all locations, concrete samples (pulverized concrete drill spoils) were collected from 0-3 inches BGS and 3-6 inches BGS.

All boring and sampling equipment was decontaminated between each sample. Decontamination consisted of gross contaminant removal and hexane rinse followed by Liquinox wash and distilled water rinse.

EAR collected a total of 34 concrete samples (including three blind duplicates) and 1 aqueous sample (rinsate blank). All samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of PCB's via EPA Method 8082. Due to elevated PID readings at CB-9 (3-6 inches BGS) and CB-22 (0-3 inches BGS), samples from these locations were also submitted for analysis of VOC's via EPA Method 8260. All samples were submitted for an expedited 72-hour analytical turnaround time with NYSDEC ASP Category B deliverables requested.

Geologist's field notes and chain of custody forms are attached.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CB-29
CB-30
Granite Smoke Stack Foundation

DEC-Brooklyn 5200 7/24/17

Notes cont

- In total 3 wells were sampled: MW-12, 03, & 14.
- MW-13 could not be located, P.A.L. even moved steel plates so we could check underneath.
- MW-10 is damaged & is not able to be sampled.
- All other wells were located.
- Sampling equipment was cleaned w/ Liquinox between wells.
- Purge water was disposed in on site P.A.L. drum, w/ permission.
- T.A. Courier on site ~1355 → ~1405 to pick up samples.
- PFA samples were bagged & chained seperately, Courier expressly informed about PFA samples.

DEC-Brooklyn 5200 7/25/17

Start: 515 on: 700 Lunch: 1400-1430 off: 1430 End: 1800

Purpose: Continue Concrete Sampling, & conduct Soil sampling.

On Site: JPL/AD/BCC (EAR, Enviro Sci/ Vinnie Barber (EA, on site rep)

Equip: 16 F150, PID #~~149~~ 19 Hammer drill, Generator

Weather: ↓ 70's, overcast, breeze in afternoon

Notes:

- Travel to/from site w/ BCC/AD
- PID Calibration checked prior to use Ambient PID = 0.1 ppm
- Rinse blank collected @ 800
- V. Barber on site upon arrival
- Concrete samples were collected in same as described on 7/21/17 (pg. 65), using hamer drill, liquinox & Hexane, & half trays
- Decon water deposited into P.A.L. on site container
- 2 locations, ~~were~~ CB-9 & CB-22, ~~were~~ selected for VOC sampling/analysis due to elevated PID readings, as per I. Hofmann

DEC-Brooklyn5200 — 7/25/17

CB-16_0-3	@	830 ★MS/MSD★	PID	0.1ppm
CB-16_3-6	@	835	PID	0.1ppm
CB-17_0-3	@	839 ★Dup = CB-XX★	PID	0.1ppm
CB-17_3-6	@	845	PID	0.1ppm
CB-18_0-3	@	851	PID	0.1ppm
CB-18_3-6	@	858	PID	0.1ppm
CB-19_0-3	@	904	PID	0.1ppm
CB-19_3-6	@	908	PID	0.1ppm
CB-20_0-3	@	911	PID	0.1ppm
CB-20_3-6	@	915	PID	0.1ppm
CB-21_0-3	@	922 ★MS/MSD★	PID	0.1ppm
CB-21_3-6	@	930	PID	0.1ppm
CB-22_0-3	@	938 ★Dup = CB-YY★	PID	23.7ppm
CB-22_3-6	@	944	PID	3.4 ppm
CB-23_0-3	@	1045	PID	0.1ppm
CB-23_3-6	@	1050	PID	0.1ppm

2 of 4 — 69 — JPL

CB-24_0-3	@	1057	PID	0.1ppm
CB-24_3-6	@	1102	PID	0.1ppm
CB-25_0-3	@	1109	PID	0.1ppm
CB-25_3-6	@	1114	PID	0.1ppm
CB-26_0-3	@	1120 ★MS/MSD★	PID	0.1ppm
CB-26_3-6	@	1125	PID	0.1ppm
CB-27_0-3	@	1131 ★Dup = CB-ZZ★	PID	0.1ppm
CB-27_3-6	@	1136	PID	0.1ppm
CB-28_0-3	@	1142	PID	0.1ppm
CB-28_3-6	@	1149	PID	0.1ppm
CB-22_0-3	@	1208 — for VOCs via 8260	PID	70.4ppm
CB-9_3-6	@	1215 — for VOCs via 8260	PID	2.3ppm
CB-29_0-3	@	1245	PID	11.4ppm
CB-29_3-6	@	1250	PID	2.6ppm

3 of 4 — 70 — JPL

DEC-Brooklyn5200 7/25/17

CB-30_0-3 @ 1257 PID 0.1ppm

CB-30_3-6 @ 1302 PID 0.2ppm

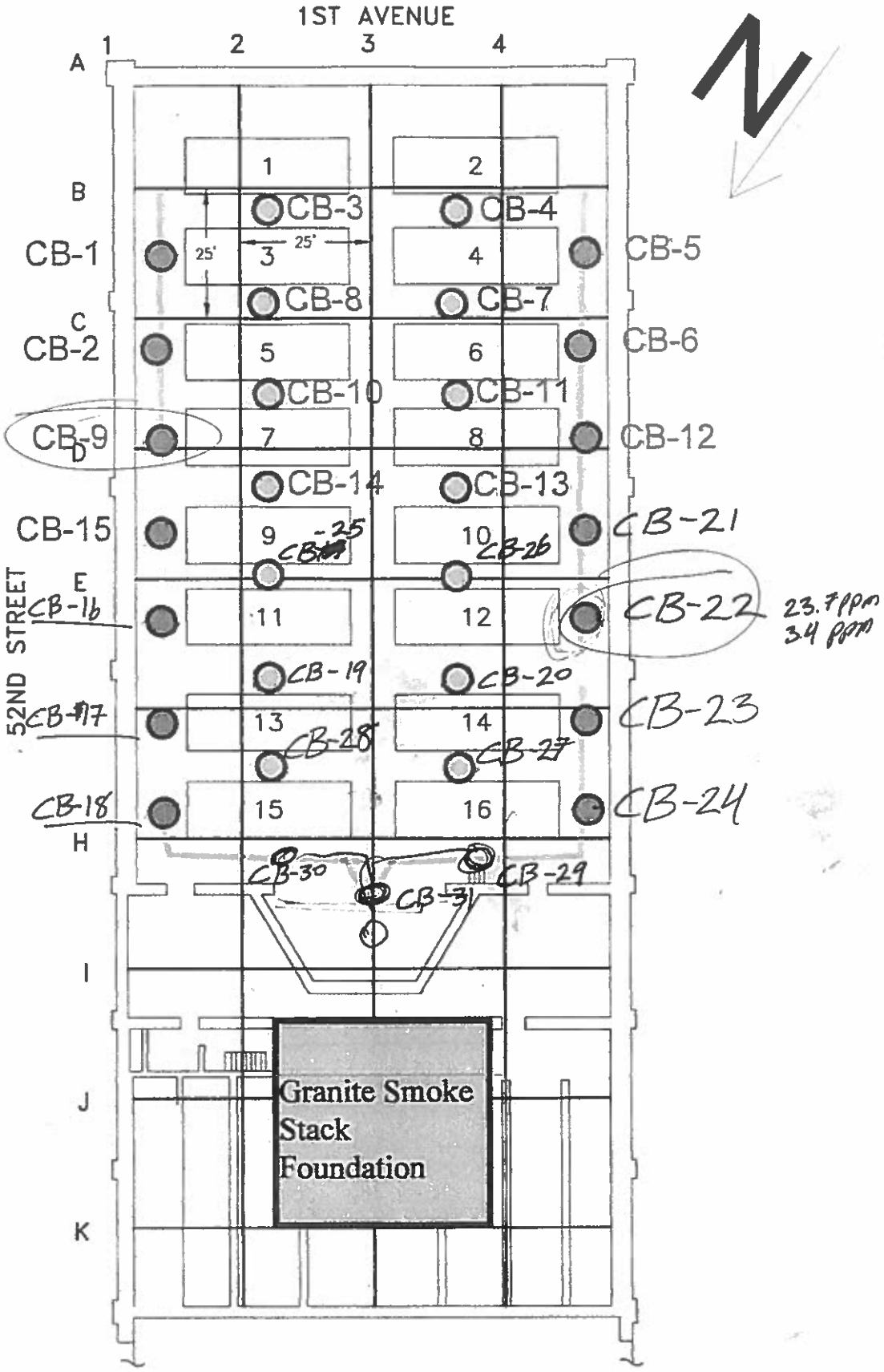
~~CB-31_0-3 @ [redacted]~~ PID

~~CB-31_3-6 @ [redacted]~~ PID

- Proposed location was steel, could not drill through. As per V. Barber point was removed.

Notes Cont

- After collecting VOC samples, 3 additional points were added by V. Barber for PCBs; CB-29, 30, & 31. CB-31 was removed from sample plan because location was steel.
- See associated map for sample locations
- Courier on site 1425 → 1430 to pick up samples.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7
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9
10
11
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14
15
16
23.7 ppm
34 ppm
Granite Smoke Stack Foundation

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P.O.#: Spill # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 Hr	
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs Via 8082	MS/MSD									LAB USE ONLY Sample Numbers
CB-16_0-3	7/25/17	830	Soil	3	X	X									
CB-16_3-6		835		1	H										
CB-17_0-3		839			X										
CB-17_3-6		845			H										
CB-18_0-3		851			X										
CB-18_3-6		858			H										
CB-20_0-3		911			X										
CB-20_3-6		915			H										
CB-19_0-3		904			X										
CB-19_3-6	↓	908	↓	↓	H										

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY: Project No: / Job No:

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____ — Soil: / Water:

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Yohn	EAR	7/25/17 1430	1)	T. A
2)		/	2)	
3)		/	3)	
4)		/	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0814)

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hafmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC Brooklyn 5200
Company: EAR	P.O.#: Spill # 2204015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72Hr	
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs via 8082	MS/MSD									LAB USE ONLY Sample Numbers
CB-21_0-3	7/25/17	922	soil	3	X	X									
CB-21_3-6	↓	930	↓	↓	H										
CB-22_0-3		938			X										
CB-22_3-6		944			H										
CB-23_0-3		1045			X										
CB-23_3-6		1050			H										
CB-24_0-3		1057			X										
CB-24_3-6		1102			H										
CB-25_0-3		1109			X										
CB-26_3-6	↓	1114	↓	↓	H										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil:					1	1									
6 = Other _____, 7 = Other _____ — Water:					/										

Special Instructions Category B deliverables requested — Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
John Kelm	EAR	7/25/17 1430	1)	T
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P.O.#: Spill # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	Regulatory Program: NYSDEC
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 Hr	
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs via 8082	MS/MSD									LAB USE ONLY Sample Numbers
CB-26_0-3	7/25/17	1120	Soil	3	X	X									
CB-26_3-6		1125		1	H										
CB-27_0-3		1131			X										
CB-27_3-6		1136			H										
CB-28_0-3		1142			X										
CB-28_3-6		1149			H										
CB-29_0-3		1245			X										
CB-29_3-6		1250			H										
CB-30_0-3		1257			X										
CB-30_3-6	↓	1302	↓	↓	H										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil:					1	1									
6 = Other _____, 7 = Other _____ — Water:															

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Yelm	EAR	7/25/17 1430	1)	T. J.
2)		/	2)	
3)		/	3)	
4)		/	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hafmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P.O.#: Site# 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	Regulatory Program: NYSDEC
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 Hr	
Phone: (631) 474-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs via 8082	8260C									LAB USE ONLY: Project No: / Job No: / Sample Numbers
CB-22_0-3	7/25/17	1208	soil	1		X									
CB-9_3-6		1215	soil	1		X									
Rinse blank		800	Aq	4	X										
CB-XX		/	soil	1	X										
CB-YY		/	↓	1	X										
CB-ZZ	↓	/	↓	1	X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil:					1	6									
6 = Other Terra Core, 7 = Other _____ — Water:					1										

Special Instructions Category B deliverables requested — Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Yohn	EAR	7/25/17 1430	1)	
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Wednesday, 7/26/17
Weather: 70°F+, sunny
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Augusto Duchimaza (technician)
Onsite Time: 07:15
Offsite Time: 14:30

EAR completed follow-up soil sampling activities at a total of three locations: SB-13, SB-15, and SB-19. Although originally directed to collect follow-up soil samples at SB-12, samples were collected at SB-13 as SB-12 was under standing water. Locations are illustrated in the attached map.

Per directives from the onsite EA representative, borings at the above locations were to be advanced to 4-feet below grade surface (BGS) using a stainless-steel hand auger. At SB-13 and SB-15, soil samples were collected from 0-1 feet BGS, 1-2 feet BGS, 2-3 feet BGS, and 3-4 feet BGS. At SB-19, boring could not be advanced beyond 3.5 feet BGS. At this location, soil samples were collected from 0-1 feet BGS, 1-2 feet BGS, and 2-3 feet BGS.

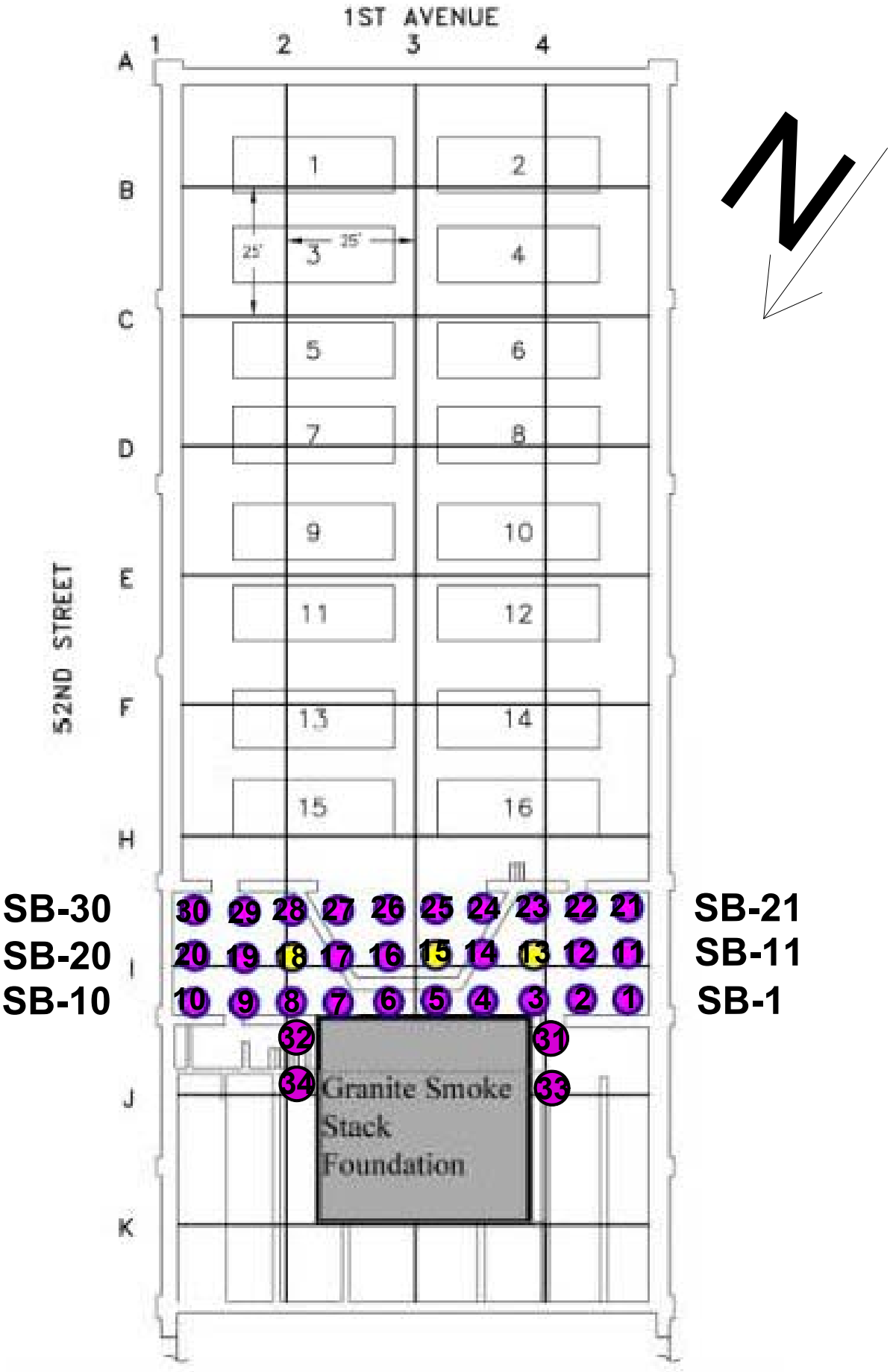
At each of the above locations, the interval exhibiting the highest PID reading was retained for lab analysis. EAR submitted a total of 4 soil samples (including one blind duplicate). All soil samples were preserved via EPA 5035 compliant means and submitted to Test America, Inc. (lab provided field courier pickup) for analysis of VOC's via EPA Method 8260 at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

EAR collected groundwater samples at temporary wells installed at SB-13, SB-15, and SB-18 using a peristaltic pump. A new length of HDPE tubing was used at each location. Due to poor recharge at these locations, the water samples were collected following a purge of one well volume. No prior screening was conducted.

EAR collected a total of 4 aqueous samples (including one rinsate blank from soil sampling equipment). All groundwater samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of VOC's via EPA Method 8260C, SVOC's via 8270, pesticides via 8081, TAL metals via 6020/7470, total cyanide via 9012, and PFA's via modified 537. All samples were submitted for analysis at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

All boring and sampling equipment contacting soil and/or groundwater was decontaminated between each sample. Decontamination consisted of gross contaminant removal followed by Liquinox wash and distilled water rinse.

Geologist's field notes and chain of custody forms are attached.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Granite Smoke Stack Foundation

DEC-Brooklyn5200 7/25/17

CB-30_0-3 @ 1257 PID 0.1ppm

CB-30_3-6 @ 1302 PID 0.2ppm

~~CB-31_0-3 @ [redacted]~~ ~~PID~~

~~CB-31_3-6 @ [redacted]~~ ~~PID~~

- ~~Proposed~~ location was steel, could not drill through. As per V. Barber point was removed.

Notes Cont

- After collecting VOC samples, 3 additional points were added by V. Barber for PCBs; CB-29, 30 & 31. ~~CB-31 was removed from~~ sample plan because location was steel.
- See associated map for sample locations
- Couries on site 1425 - 1430 to pick up samples.

DEC-Brooklyn5200 7/26/17

Start: 530 on: 715 Lunch: 1400-1430 off: 1430 End

Purpose: Conduct soil sampling @ 3 locations, & GWS @ 3 previously installed temp MWS

Onsite: JPL/BCC/AD (EAR, Enviro Sci/Foreman/Tech)
V. Barber (EA, on site rep)

Equip: 16 F150, PID #19, Generator, GP, SS hand augers, Post hole digger, WLM

Weather: 70's, Sunny

Notes:

- V Barber on site upon arrival/departure
- PID calibration checked prior to use
  - Ambient PID = 0.0ppm
- As discussed w/ I. Hofmann, due to small size of water column in SB-13, 15, & 18, they will be purged for 1 well volume then sampled, w/o monitoring for stability.
- As discussed w/ I. Hofmann, since SB-12 is covered in standing water, preventing soil sampling, SB-13 will be used instead
- As per V. Barber, will collect a 4'-5' bg sample during soil sampling where possible.

DEC-Brooklyn 5200 7/26/17

SB-19

0'-1' @ 836 PID 0.3 ppm

Brown F Sand, some M, trC, tr gravel; moist, no odor

1'-2' @ 839 PID 0.3 ppm

Brown F sand, trMs, tr gravel; moist, no odor

2'-3' @ 843 PID 0.2 ppm

Brown same ↑

4'-5' @ [redacted] PID

Rejection 4 times @ ~3.5'

SB-15

0'-1' @ 930 PID 4.5 ppm

Brown F Sand, little M, little C, tr gravel; moist faint odor

1'-2' @ 938 PID 45.3 ppm

Brown, same ↑; odor

2'-3' @ 945 PID 58.7 ppm

Brown Same; odor

4'-5' @ 952 * MS/MSD * PID 65.6 ppm

Brown Silty F Sand, trM, trC; wet, odor

SB-15_GW @ 909

DTW: 3.51 TWD: 6.26

SB-13

0'-1' @ 1055 PID 2.8 ppm

Brown F Sand, tr M; moist, no odor

1'-2' @ 1102 PID 5.3 ppm

Brown Same ↑; wet

2'-3' @ 1114 PID 0.4 ppm

Brown Same ↑; wet

4'-5' @ 1125 * Dup = SB-X * PID 72.1 ppm

Brown Same ↑; wet, odor

SB-13_GW @ 902

DTW: [redacted]99' TWD: [redacted] 3.05'

SB-18_GW @ 916

DTW: 4.73 TWD: 5.23

Notes Cont

- Soil sampling equipment (hand auger) washed w/ liquinox & distilled H_2O between samples, & fresh section of tubing + silicone used @ each well.
- As discussed w/ I. Hofmann (who conferred w/ engineers) rinsate blank not needed for GW sampling
- T.A. Courier on site 1427 -> 1432, to pick up days samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

CHAIN OF CUSTODY / ANALYSIS REQUEST

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice): Ian Hallinan	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 15220
Company: EAR	P. O. #: site # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 HR	
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PFAs										LAB USE ONLY Sample Numbers
SB-13_GW	7/26/17	902	Aq	2	X										
SB-15_GW	↓	909	↓	↓	X										
SB-18_GW	↓	916	↓	↓	X										

LAB USE ONLY Project No: Job No:

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil: / Water: /

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Zehn	EAR	7/26/17 | 1430	1)	
2)		|	2)	
3)		|	3)	
4)		|	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0814)

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hafmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC-Brookhill 15200
Company: EAR	P. O. #: SDG # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
Address: 225 Atlantic AVE	Analysis Turnaround Time: Standard ☐	Regulatory Program: NYSDEC DKQP: ☐
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72HR	
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	8260C	NYS/MSD	8270D	8081B	7470A + 6020A	9012B						LAB USE ONLY Project No: / Job No: / Sample Numbers
SB-19_1-2	7/26/17	839	Soil	1	X											
SB-15_4-5		952		3	X	X										
SB-13_4-5		1125		1	X											
SB-13_GW		902	Aq	10	4		2	2	1	1						
SB-15_GW		909		10	4		2	2	1	1						
SB-18_GW		916		10	4		2	2	1	1						
Rinseblank_soil	7/26/17	800	Aq	4	X											
SB-x	7/26/17	/	Soil	1	X											

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____ Soil: Water:

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	7/26/17 1430	1)	
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Thursday, 7/27/17
Weather: 70°F+, sunny in am, overcast in pm
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Augusto Duchimaza (technician)
Onsite Time: 07:15
Offsite Time: 14:30

EAR conducted groundwater sampling activities at a total of four locations: MW-01, MW-02, MW-08, and MW-09. EAR attempted sampling at MW-05 but was unable to advance a water level meter probe or sampling tubing beyond 7-feet below grade. When retrieved, the water level meter probe and tubing were muddy, suggesting that the well has filled with dirt/soil. Locations are illustrated in the attached map.

Groundwater samples were collected utilizing peristaltic pumps and HDPE tubing. A new length of HDPE tubing was utilized at each well. Prior to sample collection, depth-to-water and total well depths were gauged to the nearest 0.01 foot and recorded. A water quality meter was used to monitor water quality parameters. Each monitoring well was purged of at least one standing well volume then screened for pH, temperature, and conductivity until stabilization was reached. Dissolved oxygen concentrations, and oxidation reduction potential (ORP) were recorded as well.

Downhole equipment such as water level meters were decontaminated between each well location. Decontamination consisted of gross contaminant removal, Liquinox wash, and distilled water rinse.

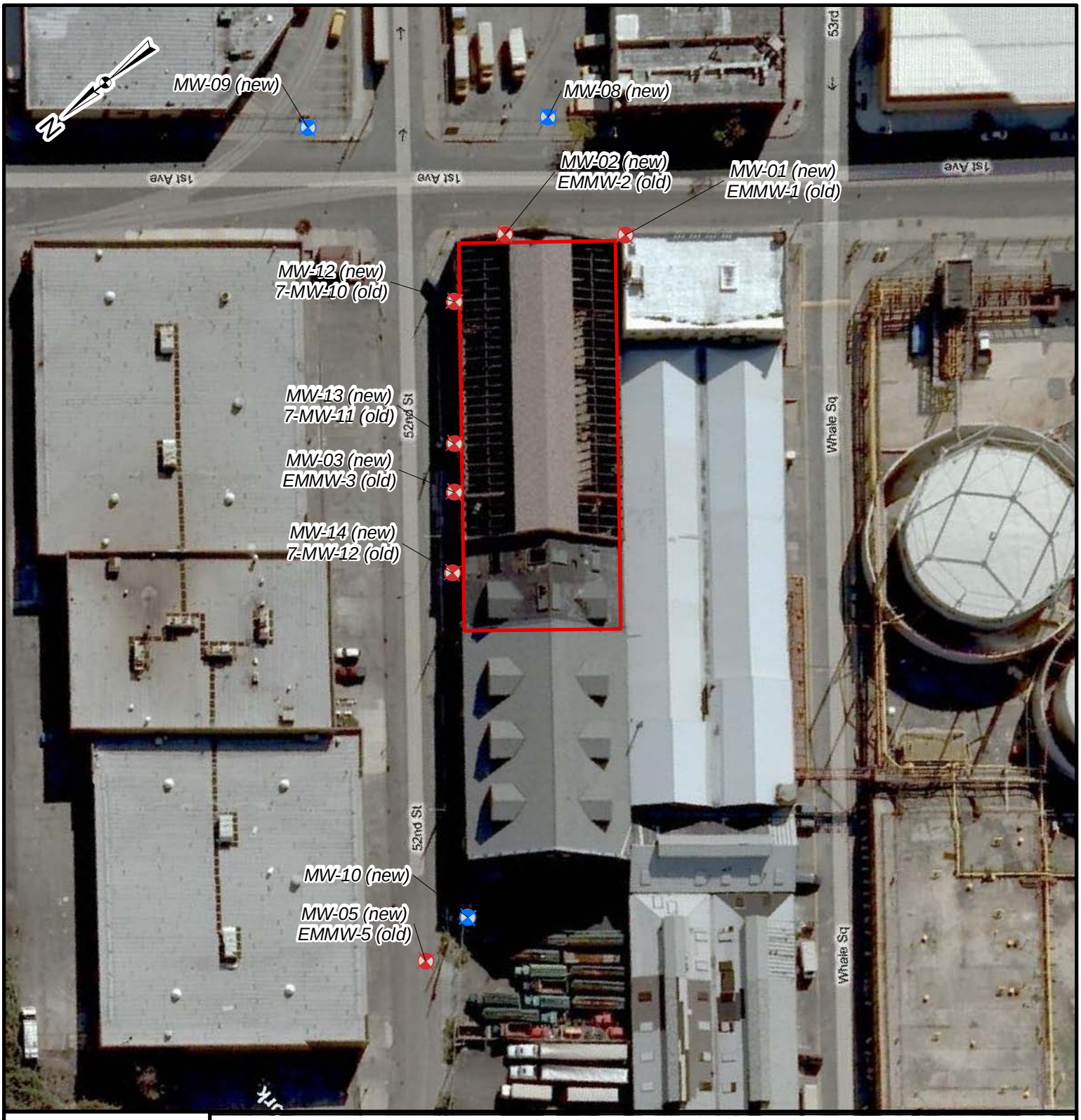
EAR collected a total of 5 aqueous samples (including one blind duplicate). All samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of VOC's via EPA Method 8260C, SVOC's via 8270, pesticides via 8081, PCB's via 8082, TAL metals via 6020/7470, total cyanide via 9012, and PFA's via modified 537. All samples were submitted for analysis at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

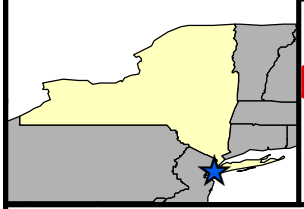
Geologist's field notes and chain of custody forms are attached.

Photo 1: water level meter probe tip upon retrieval from MW-05.

Photo 2: MW-05 well head

Photo 3: MW-10 well head. Casing/riser could not be found in manhole, even after exploratory digging.





Legend

- Building Footprint
- Monitoring Wells Installed by EA
- Existing Monitoring Wells

0 50 100 200 Feet

Source: Windows Live Maps
www.bing.com/maps

EMPIRE ELECTRIC
WORK ASSIGNMENT
BROOKLYN, NEW YORK

FIGURE 2
GROUNDWATER SAMPLE
LOCATIONS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
DFC	MJS	MJS	SEF	AS SHOWN	JULY 2009	14474.26	GIS/PROJECTS/ FIGURE2.MXD

DEC-Brooklyn 5260 7/27/17

Start: 530 On: 715 Lunch 1400-1430 Off: 1430 End:

Purpose complete GWS

On Site: JPL/AD/TZP (EAR, Enviro sci/Foreman/tech)

Equip: 16 F150, GP, YSI, generator, WLM

Weather: 170's, Sunny -> overcast

Notes:

- Travel to/from site w/ AD/TZP
- Vinnie Barbar on site upon arrival/departure
- Sampling equipment (YSI) cleaned w/ Liquinox & distilled water between wells
- See associated GWS sheet for field screening data, dups & MS/MSD info
- MW-13 could not be located: no sampling conducted
- MW-10 is damaged, no sampling conducted
- MW-05 obstruction @ ~7' bg, no sampling conducted
- MW-03, 12, & 14 sampled on 7/24/17
- T.A. Courier on site 1406 -> 1412 to pick up samples.

Groundwater Sampling Sheet: Stabilization Purge Method

Site DEC-Brooklyn5200

Date 7/27/17

Techs AD/TZP/SPL

Start Time See W.O.

End Time

Equipment See W.O.

	WELL ID	Well Size (inches)	Total Well Depth (ft.)	Depth to Water (ft.)	Length of Column (ft.)	One Standing Water Well Volume (gal.)	Total Gallons Purged (gal.)	Time Sampled (hh:mm)	[check units on YSI and confirm that parameter is in the correct units] DO (mg/L)	Temp (°C)	pH	ORP (mV)	Specific Conductance (uS/cm)	NOTES
*	MW-02	2	28.22	20.42	7.8	1.38	3.50	808	1.71	16.68	5.72	47.6	4293	
*	MW-01	2	28.08	20.97	7.11	1.24	3.00	910	1.48	17.91	4.90	72.8	1103	
	MW-08	2	28.04	20.29	7.75	1.35	3.80	1045	1.71	16.56	4.59	81.0	947	
	MW-09	2	27.82	18.54	9.28	1.62	4.00	1200	2.86	18.19	5.03	85.7	2991	

Well Size (inches)	0.5	0.75	1	1.5	2	4	6	8
Multiplier based on 4 well volume	0.06	0.11	0.18	0.42	0.7	2.65	6	10.4
Multiplier based on 1 well volume	0.015	0.0275	0.045	0.105	0.175	0.663	1.5	2.6

Purge a minimum of 1 well volume & then wait for stabilization

Tolerance for stability:

Specific Conductance (3%)

temperature (3%)

pH +/- 0.1 units

Record DO & ORP but DO NOT use for stability

Guidelines for Field Screening Values:

pH range = 5 - 9

Temperature range = 10 - 19 (except for VERY warm days - please try to keep purge container cool/shaded area)

DO range = less than 12 (unless very close to a sparge well)

* MW-02 = MW-X

* MW-01 selected for MS/MSD

If readings are not in this range please try to recalibrate (except for temp which cannot be calibrated) If they remain out of range, please do not write the value on the sheet - it is an equipment error.

PLEASE CONTACT THE PMs IF THERE IS A PROBLEM. THIS DATA IS IMPORTANT AND INCORRECT DATA IS WORSE THAN NO DATA. WE REALLY APPRECIATE YOUR WORK TO KEEP E.A.R. A TOP COMPANY IN THE FIELD

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice): Jon Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P.O. #: ~~Bill~~ # 221015	State (Location of site): NJ: ☐ NY: ☑ Other:
		Regulatory Program: NYS DEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐	
Phone: (631) 447-6400 Fax:	Other ☒ 72HR	

Sample Identification	Date	Time	Matrix	No. of Cont.	8260C	8270D	8081B	8082A	7470A + 6020A	9012B	MS/MSD					LAB USE ONLY: Project No: / Job No: / Sample Numbers
MW-02	7/27/17	808	Aq	12	4	2	2	2	1	1						
MW-01	↓	910	↓	36	4	2	2	2	1	1	24					
MW-08		1045		12	4	2	2	2	1	1						
MW-09		1200		12	4	2	2	2	1	1						
MW-X	7/27/17	↓	Aq	12	4	2	2	2	1	1						

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH; 6 = Other _____, 7 = Other _____

Soil:	✓	✓	✓	✓	✓	✓	✓									
Water:	2	1	1	1	4	5										

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Yahn	EAR	7/27/17 | 1410	1) John Yahn	EAR
2) John Yahn	EAR	7/27/17 | 1410	2)	T. A
3)		/	3)	
4)		/	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice): Jon Hafmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P. O. #: Spill # 2241015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐	
Phone: (631) 447-4400 Fax:	Other ☒ 72 HR	

Sample Identification	Date	Time	Matrix	No. of Cont.	PFAS	MS/MSD									LAB USE ONLY Project No: / Job No: / Sample Numbers
MW-02	7/27/17	808	Aq	2	X										
MW-01		910		6	2	4									
MW-08		1045		2	X										
MW-09		1200		2	X										
MW-X	7/27/17	/	Aq	2	X										

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____

Soil: | Water: 1

Special Instructions Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) Jon Lehn	EAR	7/27/17 1410	1)	T. 17
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Wednesday, 8/9/17
Weather: 60°F+, sunny
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Edgar Lucero (technician)
Onsite Time: 07:45
Offsite Time: 13:00

EAR conducted concrete sampling activities at one location: CB-10. This location had been scarified on a prior date.

To collect the above sample, a drill with a carbide masonry bit was advanced to 3-inches below the scarified surface (BGS). EAR collected a total of 1 concrete sample which was submitted to Test America, Inc. (lab provided field courier pickup) for analysis of PCB's via EPA Method 8082.

EAR collected groundwater samples at temporary wells installed at SB-13, SB-15, and SB-18 using a peristaltic pump. A new length of HDPE tubing was used at each location. Due to poor recharge at these locations, the water samples were collected following a purge of one well volume. No prior screening was conducted.

EAR collected a total of 5 aqueous samples (including one blind duplicate and one rinsate blank from concrete sampling equipment). All groundwater samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of TAL metals via 6020/7470 (lab filtered) and PCB's via 8082 (lab filtered). All samples were submitted for analysis at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

All groundwater sampling equipment contacting groundwater was decontaminated between each sample. Decontamination consisted of gross contaminant removal followed by Liquinox wash and distilled water rinse. All concrete sampling equipment was decontaminated prior to use via gross contaminant removal and hexane rinse followed by Liquinox wash and distilled water rinse.

Geologist's field notes and chain of custody forms are attached.

Sun-Freeport 279 8/8/17

Notes cont

- Concrete around holding tank broken/removed by 1500
- Tank pulled using excavator & chains by 1525. ~ 5' long
- oil staining & odor observed in soil around tank, soil to be staged w/ rest on plastic wrap w/ that from the lift
- Holding tank excavation dug down to 5.5' where soil showed no more sign of oil staining/impact
- End point sample collected from 5.5' @ 1550
- confirmed w/ Bob that no more digging will be done & that contaminated soil will be properly staged before leaving.

* Hydraulic Lift_Endpoint @ 1355 PID 897ppm
- Black F Sand, little M, trC; wet, stained odor

Holding Tank_Endpoint @ 1550 PID 13.5
- Tan F Sand, some M, trC; moist, no stain, no odor

3 of 3 79 JPL

DEC Brooklyn 5200 8/9/17

Start: 530 on: 745 Lunch 1230-1300 off: 1300 End:

Purpose: Collect 1 concrete sample, & 3 GW samples from temp. wells

on Site: JPL/BCC/EL (EA Ennio Sci/Tech/Foreman) Vinnie Barber (EA on site Rep)

Equip: 16F150, PID #19, GP, Generator, Hammer drill, WLM

Weather: ↑60s, Sunny

Notes:

- Travel to/from site w/ BCC/EL
- V. Barber on site upon arrival/departure
- PID calibration checked prior to use
  Ambient PID = 0.1 ppm
- Concrete samples were collected using same method as described on 7/21/17 (pg. 63), using hammer drill, Liquinox, hexane, & half trays
- As discussed w/ I. Hofmann, GW points will be purged 1 well volume, then sampled w/o YSI readings
- Fresh section of Hdpe tubing used @ each GW point. WLM deconed between points

1 of 80 JPL

DEC-Brooklyn 5200 8/9/17

CB-10R @935 * MS/MSD * PID 1.2ppm
0"-3"

SB-13_GW @~~1000~~ 1120
DTW: 4.79 TWD: 5.23

SB-15_GW @1040 * MS/MSD ~~&~~ SB-15_GW=SB-X
DTW 3.53 TWD 6.98

SB-18_GW @H20 1000
DTW 1.17 TWD 3.05

Notes Cont
- T.A. Courier on site 1223 → 1228 to pick up Samples

8/1 JPL

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC-Brooklyn 5200
Company: EAR	P.O.#: Site # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐	
Phone: (631) 447-6400 Fax:	Other ☒ 72Hr	

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs via EPA 8082	Filtered PCBs	MS/MSD	Filtered TAL Metals + Mercury							LAB USE ONLY Sample Numbers
CB-10K	8/9/17	935	Soil	3	X		X								
SB-18_GW	↓	1000	Aq	4		X		X							
SB-15_GW		1040	↓	12		X	X	X							
SB-13_GW	↓	1120	↓	4		X		X							
RinseblanK_Soil	8/9/17	900	Aq	2	X										
SB-X	8/9/17	/	Aq	4											
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil:					1		1								
6 = Other _____, 7 = Other _____ — Water:					✱	1	1	1							

Special Instructions SB-18, 15, 18, & X need to be filtered. Category B deliverables requested Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	8/9/17 | 1230	1)	TAN YC
Relinquished by 2)	Company	Date / Time |	Received by 2)	Company
Relinquished by 3)	Company	Date / Time |	Received by 3)	Company
Relinquished by 4)	Company	Date / Time |	Received by 4)	Company

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Tuesday, 8/29/17
Weather: 65°F+, cloudy
EAR Personnel Onsite: Bruce Campbell (skilled laborer), Edgar Lucero (skilled laborer)
Onsite Time: 07:00
Offsite Time: 10:00

EAR personnel removed broken manhole and skirt at monitoring well MW-02. An asphalt/concrete saw was used to cut an approximately 16-inch by 16-inch opening around the well such that the damaged manhole and skirt could be removed. Following removal of the damaged manhole and skirt, the well riser was cut down approximately 2-inches in order to allow room in the manhole vault for the locking well cap and keep manhole lid flush with grade.

EAR installed a new 8-inch diameter, steel, bolt-down manhole and restored the cut to grade with 5,000 psi concrete mixed onsite.

A NYCDOT sidewalk opening permit (attached) was obtained by EAR prior to beginning the work.

Photographs are attached.

Photo 1: MW-02 damaged manhole removed and well casing cut down

Photo 2: MW-02 manhole replaced and restored

NYC Department of Transportation

Office of Permit Management

PROTECTED STREET OPENING PERMIT

PERMIT#: B01-2017236-C56

ISSUED DATE:	8/24/2017	**PERMIT VALID FROM:**	8/24/2017	**TO:**	8/31/2017
BOROUGH:	BROOKLYN	**PERMIT TYPE:**	0152P - SPILL RESPONSE/CLEANUP - INSTALLATIONS P		
FEES (NON-REFUNDABLE):		**ROADWAY TYPE:**			
ADMINISTRATION FEE	$135.00	**SIDEWALK TYPE:**	CONCRETE		
TOTAL :	$135.00 FEE WAIVED/CONTRACT				

CONF # B2017236694

PERMISSION HEREBY GRANTED TO:

NAME:	LONG ISLAND ENVIRONMENTAL ASSESSMENT INC.	**LICENSE #:**	None
CONTACT NAME:	VIGLIOTTA DAVID	**CONTRACT #:**	C100611
PHONE:	5164476400	**SPONSORING AGENCY:**	NYS DEPT ENVIRON CONSERVATION
ADDRESS:	225 - ATLANTIC AVE PATCHOGUE NY 11772		

TO OPEN THE SIDEWALK AT:

HOUSE#:			
ON STREET:	1 AVENUE		
FROM STREET:	52 STREET		
TO STREET:	53 STREET		
LOCATION DETAILS:	Sidewalk on the North-West side of street		
FOR PURPOSE OF:	NYCDEC Contract No. C100611 - Well repair		
RELATED AGENCY #:			
FOR MAX. LENGTH OF:	2 FT		
INSPECT DIST:	33	**COMM. BOARD:**	07
RECORDED:	None	**SEQUENCE #:**	0001
TRACKING #:	2017082300649393		

Note: If House Number is not provided Permittee shall use "Location Details" box to indicate a specific location of the work area within a block (for all non-Contract work, i.e. Contract #: None).

PERMITTEE SHALL COMPLY WITH ALL APPLICABLE LAWS, RULES AND SPECIFICATIONS OF THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION AND WITH THE TERMS AND CONDITIONS OF THE PERMIT. FAILURE TO COMPLY MAY RESULT IN REVOCATION OF THE PERMIT BY THE COMMISSIONER.

TAMPERING WITH OR KNOWINGLY MAKING A FALSE ENTRY IN OR FALSELY ALTERING THIS PERMIT MAY RESULT IN A RESTRICTION IN OBTAINING FUTURE NYCDOT PERMITS.

NYC Department of Transportation

Office of Permit Management

PROTECTED STREET OPENING PERMIT

PERMIT#: B01-2017236-C56

NYS LAW

CALL NEW YORK 811, INC. AT 1-800-272-4480 OR 811 BEFORE STREET OPENING EXCAVATIONS. NEW YORK STATE INDUSTRIAL CODE RULE 753 MANDATES 2-10 BUSINESS DAYS NOTICE PRIOR TO DIGGING.

PERMITTEE SHALL COMPLY WITH ALL OF THE FOLLOWING STIPULATIONS

SPECIFIC STIPULATION	
013	SIDEWALK ONLY NO ROADWAY WORK, REPAIR ALL SCARRING YP 8/24/17. AL: MUST COORDINATE WITH THE ONGOING CONSTRUCTION PRIOR TO MOBILIZING.
016	MAINTAIN A MINIMUM 5 FOOT CLEAR PEDESTRIAN WALK ON THE SIDEWALK
019	FULL WIDTH OF SIDEWALK SHALL BE OPENED TO PEDESTRIANS WHEN SITE IS UNATTENDED EXCEPT FOR CONCRETE CURING WHEN THAT PORTION OF THE SIDEWALK MAY REMAIN CLOSED PROVIDED ALL OTHER STIPULATIONS ON THIS PERMIT ARE COMPLIED WITH. THIS EXCEPTION DOES NOT APPLY IF STIPULATION 014 IS ALSO APPLIED TO THIS PERMIT.
038	WORK 7AM - 6PM, MONDAY THROUGH FRIDAY
091	ALL TEMPORARY TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, FENCING AND MARKINGS SHALL BE PROVIDED, INSTALLED, MAINTAINED AND REMOVED BY THE PERMITTEE IN ACCORDANCE WITH THE MOST RECENT VERSION OF PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD). OBTAIN THE MUTCD AT HTTP://MUTCD.FHWA.DOT.GOV .
103	THIS PERMIT ACTIVITY MAY NOT START UNTIL THE PERMITTEE COORDINATES ALL WORK WITH ANY ONGOING CONSTRUCTION AND WITH THE PROJECT/RESIDENT ENGINEER FOR ANY ONGOING CAPITAL PROJECTS.
NOISE1	PARKING OF NON-COMMERCIAL VEHICLES ON THE STREET (ROADWAY AND SIDEWALK) WITHIN WORK ZONES IS PROHIBITED.
SCHOOL	BY SUBMITTING THIS APPLICATION AND/OR RENEWAL REQUEST, THE PERMITTEE CERTIFIES ITS COMPLIANCE WITH ALL APPLICABLE CITYWIDE CONSTRUCTION NOISE MITIGATION REQUIREMENTS INCLUDING, BUT NOT LIMITED TO THE DEVELOPMENT OF A COMPLIANT NOISE MITIGATION OR ALTERNATIVE NOISE MITIGATION PLAN. PLEASE CONTACT THE NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION (WWW.NYC.GOV/DEP)FOR FURTHER INFORMATION.
TMC001	NO WORK TO BE PERFORMED WITHIN BLOCK FRONTING SCHOOL INCLUDING INTERSECTIONS FOR ONE HOUR PRIOR TO SCHOOL START TIME THROUGH ONE HOUR AFTER END OF SCHOOL TIME. PERMITTEE MUST NOTIFY SCHOOL PRINCIPAL IN WRITING 48 HOURS PRIOR TO BEGINNING ANY WORK. THIS STIP VOIDS ANY/ ALL OTHER CONFLICTING STIPS ON THIS PERMIT UNLESS ACCOMPANIED WITH VARIANCE STIP VAR001.
WAGE01	CONTRACTORS WHO AT ANY TIME DURING THEIR PERMITTED WORK ENCOUNTER TRAFFIC SURVEILLANCE CAMERAS, DETECTION EQUIP OR ANY TYPE OF COMMUNICATION EQUIPMENT (WIRELESS OR HARD-WIRED) ON ANY NYCDOT FACILITY, THAT IS NOT INCLUDED ON THE DESIGN/BUILD DWGS, SHALL IMMEDIATELY NOTIFY NYCDOT TRAFFIC MANAGEMENT AT TMC@DOT.NYC.GOV & 718-433-3390/40 AND AWAIT DIRECTION PRIOR TO CONTINUING WORK
WAGE02	NYC ADMINISTRATIVE CODE, 19-142. WORKERS ON EXCAVATIONS: A PERSON TO WHOM A PERMIT MAY BE ISSUED, TO USE OR OPEN A STREET, SHALL BE REQUIRED, BEFORE SUCH PERMIT MAY BE ISSUED, TO AGREE THAT NONE BUT COMPETENT WORKERS, SKILLED IN THE WORK REQUIRED OF THEM, SHALL BE EMPLOYED THEREON. (CONT. ON STIP WAGE02)
	...AND THAT THE PREVAILING SCALE OF UNION WAGES SHALL BE THE PREVAILING WAGE FOR SIMILAR TITLES AS ESTABLISHED BY THE FISCAL OFFICER PURSUANT TO SEC. TWO HUNDRED TWENTY OF THE LABOR LAW, PAID TO THOSE SO EMPLOYED.

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Wednesday, 9/20/17
Weather: 70's (F), overcast, gusty
EAR Personnel Onsite: John Lohan (geologist)
Drilling Subcontractor: Aarco
Onsite Time: 08:15
Offsite Time: 14:15

EAR and Aarco were onsite to install monitoring wells to replace MW-10 and MW-13. Prior to EAR's arrival onsite, EA had located the MW-10 casing sunken approximately 6-inches below grade. EAR gauged the well and noted a total well depth matching that recorded on drilling log for MW-10.

EAR/Aarco moved to begin installation of the MW-13. After hitting refusal at first location at approximately 4.5 feet below grade, rig was relocated for second attempt. When hand digging to clear the location, MW-13 was located.

Onsite NYSDEC representative Charlie Post directed EAR/Aarco to install new manholes and concrete pads at MW-10 & MW-13 and re-develop the wells. As well development activities were not schedule for 9/20, no turbidimeter was available. NYSDEC directed EAR/Aarco to develop the wells, to the extent feasible, until purge waters were visibly clear.

MW-10 and MW-13 were developed via pumping using inertia method. MW-13 was purged of approximately 20 gallons (12.5 well volumes). MW-10 was purged of approximately 10 gallons (5.5 well volumes). Purge water generated was co-mingled with PAL's aqueous wastes.

At each location, EAR/Aarco installed 8-inch diameter steel, bolt-down manholes set in 12-inch by 12-inch concrete pads.

Geologist's field notes are attached.

AARCO Environmental Services Corp.

DAILY JOB REPORT

Customer: EAR Date: 9/20/17 Weather: Overcast

Job Location: 5200 First Ave Job #: 15-235223 Day of Week: Wednesday

Description of Work:

Set up Rig Drill to 4'½ ft 2 ~~SPLIT~~ full split spoons taken
Hand clear to 4'½ ft Refusal
Develope 2-2" wells 1hr 15 Time Developing
Replace 2 Manholes w/ Pavs

MW 13 + MW 10 ~~Install~~ ~~Add~~ were located Penetony Assoc w/ Surv Albany

Manifest # Approval # Gallons/Yards

Manifest # Approval # Gallons/Yards

Start Time: 500Am Leave Shop: 530Am

Arrive on Job Site: 830Am Leave Job Site (1): 130pm Total Hrs On-Site:

Arrive at Shop: Clock Out Time: Total Hrs for Day:

Overtime approved by:

Employee:	Prevailing Wage Yes or No:	PW Category:
Tim Kelly	Yes	
Scott Decker	Yes	

Equipment Used:		Material Used:	
BK81		4 Bags Concrete	
D674		2 Manholes	
		1 J Plug -2"	

Aarco Signature: X *Client Signature:* X

50 Gear Avenue, Lindenhurst, NY 11757 Phone (631) 586-5900 Fax (631) 586-5910

DEC-IslandPark3880 8/18/17

Start: 700 on: 845 Lunch: off: 1045 End:

Purpose: Continue OTD of well abandonment

On Site: JPL/DG/AD/EL

Equip: OBF 250, Camera

Weather: 80's/70's, overcast, rain

Notes:
- Travel to/from site w/ AD & off site w/ DG
- DG/EL on site @ 856
- MW-6 well removed/pad broken, & restored w/ concrete by ~1040
- MW-5 well removed/pad broken/& restored w/ concrete by ~1000
- Heavy rain ~1000->1015
- drying concrete pads were covered w/ plastic held down w/ cones to prevent water damage.
- DG spoke w/ J.L. (EAR P.M.) & agreed/decided to end site activities for the day
- AD/EL off site in F550 @ 1049 to dispose of accumulated debris.

1 of 1 87 JPL

DEC-Brooklyn 5200 9/20/17

Start: 500 on: 815 Lunch 1345-1415 off 1415 End 1730

Purpose: OTD well installation to 24' bgs, conduct

on site: JPL (EAR, Geo) Tim Kelly/Scott D (AARCO, Hdrill/assist)

Equip: 16 Transit, WLM, walking wheel, camera (P&P)

Weather: 70's, overcast, gusty

Notes
- Heavy traffic on 495 expressway delayed on site arrival time
- AARCO on site upon arrival, arrived ~5 min before myself
- Vinnie had located the original MW-10 befor our arrival, it was sunken ~6" below grade & buried w/ dirt. 2" dia, DTW: 13.38 TVD: 23.92
- AS per I. Hofmann & Vinny will redevelop existing well & restore pad rather than install new well.
- Charley, (DEC, PM) on site ~1000 -> ~1115

1 of 3 88 JPL

DEC-Brooklyn5200 9/20/17

MW-13R

0-2 @ 956 PID 4.1ppm

0.6 /2

0.25 Brown FSand, trM; moist; no S/O

0.35 Gray M Sand, some F, trC, tr asphalt; dry, no S/O

2-4 @ 1001 PID: 4.2ppm

0.6/2

0.30 Gray same O

0.20 Brown FSand, some M; dry

0.10 Gray M Sand, some F, trC, tr asphalt; dry

4-6 @ — PID /

- Hit rejection @ ~ 4.5' bgs, moved boring ~ 8' closer to 1st Ave
- While prepping new location for Post holing AARCo found the old MW-13 2" dia, DTW: 17.02, TWD: 26.07. 1 well volume = ~1.58 gal. Purged ~ 20 gal by ~1140, by hand using check valve
- AS stated by Charley (DEC Rep on Site) development of MW-13 & MW-10 can be done w/o the use of a turbidimeter or YSI for field screening, & that ~~since it these~~ it is acceptable if these pre-existing wells can't be made as clear as we'd like since the slot size of the screens are in question.

Notes Cont

MW-13 development

Dia: 2" TWD: 26.07 DTW: 17.02'

Water column: 9.05' 1 well volume: ~ 1.58 gal

- Water started as deep brown color w/ ↑ sediment content. Started to clear up a little then Δ in color plateaued after ~ 8gal, a light brown color w/ some sediment.
- After purging ~ 20 gal (~12.5 well volumes) there had been no notable Δ in color since the 8gal mark, development finished @ by ~1140
- MW-13 restored w/ bolt down manhole, 12" skirt, set in 12" X 12" concrete pad by 1215

MW-10 development

Dia: 2" TWD: 23.92' DTW: 13.38'

Water Column: 10.54' 1 well volume: 1.84 gal

- Water started as solid black, but quickly cleared up, becoming transparent w/ only a few flecks of sediment.
- After purging 10 gal (~5.5 well volumes) well considered developed @ 1245
- MW-10 restored w/ bolt down, steel, manhole w/ 12" skirt, set in 12" X12" concrete pad
- AARCo off site by 1230

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Thursday, 9/21/17
Weather: 70's (F), overcast
EAR Personnel Onsite: John Lohan (geologist), Bruce Campbell (foreman), Blake Campbell (technician)
Onsite Time: 07:00
Offsite Time: 12:00

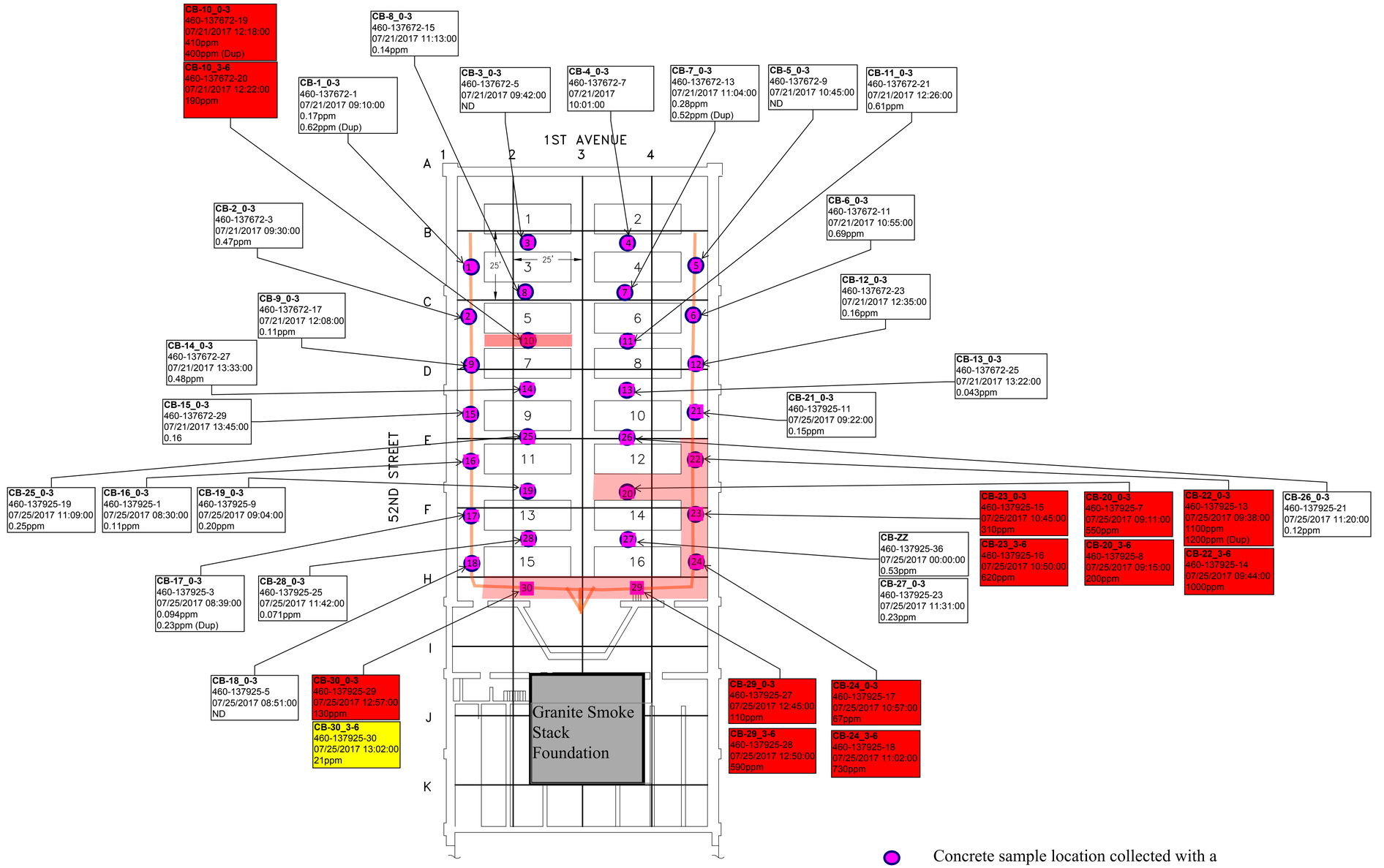
EAR completed concrete sampling activities at a total of six post-scarification locations: CB-20, CB-22, CB-23, CB-24, CB-29, CB-30. Locations are illustrated in the attached map.

To collect the above samples, a drill with a carbide masonry bit was advanced to 3-inches below grade surface (BGS). At all locations, concrete samples (pulverized concrete drill spoils) were collected from 0-3 inches BGS.

All boring and sampling equipment was decontaminated between each sample. Decontamination consisted of gross contaminant removal and hexane rinse followed by Liquinox wash and distilled water rinse.

EAR collected a total of 7 concrete samples (including one blind duplicate) and 1 aqueous sample (rinsate blank). All samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of PCB's via EPA Method 8082. All samples were submitted for an expedited 24-hour analytical turnaround time with NYSDEC ASP Category B deliverables requested.

Geologist's field notes and chain of custody forms are attached.



Department of Environmental Conservation

NEW YORK STATE OF OPPORTUNITY

NO.	DATE	DESCRIPTION
0	10/13	FOR BIDS DUE

REVISIONS

PCB CONCRETE SAMPLE LOCATIONS

PREPARED BY:
EA ENGINEERING, P.C. AND ITS AFFILIATE EA SCIENCE AND TECHNOLOGY

CARRS#	
EA #	1490706
DESIGN #	
FILE	1490706 Contract.dwg
DRAWN BY	JRM
DATE	OCTOBER 2013
SCALE	AS SHOWN
SS	

SHEET #
1

FILE PATH: P:\ENVIR & LEGAL\ENVIRO\EMPIRE ELECTRIC COMPANY\1447925\FIGURES\FROM SYRACUSE\REVISED FIGURES\SEPT 2013\PCB REMEDIATION CONFIRMATION SAMPLING\DWG [FIGURE 1].MXD(REV. JASON 3/8/2017 11:52 AM

DEC-Brooklyn5200 9/2/17

Start: 500 on: 700 Lunch: off: 1200 End:

Purpose: Conduct Post-Scarification Sampling from 0"-3" bg @ 6 locations

on Site: JPL/Bc/Bcc (EAR, Geo/Foreman/Tech)

Equip: 16 F150, Bosche Hammer drill, Honda 2000i, generator, PID

Weather: 70's, overcast

Notes

- Drove to/from site w/ Bc/Bcc
- Vinnie B. on site upon arrival
- Bc went through safety orientation while I discussed scope of work w/ Vinnie
- As per Vinnie, concrete samples will be biased towards the trench where possible (All samples except CB-20PS_0-3), where there is the ↑ chance of finding any remaining contamination.
- Concrete Sampling was conducted using Bosche hammer drill, w/ a ~~be~~ new half tray (chaffing dish) used @ each location to collect the powdered concrete
- Hammer Drill bit deconed w/ liquinox & hexane before sampling & after each sample was collected

CB-30PS_0-3	@825	*MS/MSD*	PID 0.0 ppm
CB-29PS_0-3	@840	*Dup = CB-X*	PID 0 ppm
CB-24PS_0-3	@910		PID 0.1 ppm
CB-22PS_0-3	@930		PID 0.8 ppm
CB-20PS_0-3	@950		PID 0.2 ppm
CB-23PS_0-3	@1030		PID 0.1 ppm
Rinse Blank	@800		

Notes cont

- PID zero & span calibrated prior to use
- Rinse Blank collected @ 800
- T.A. pick up was on site @ 1145-1150 Samples relinquished to T.A.

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Edison, New Jersey 08817
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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC-Brooklyn 5200
Company: EAR	P. O. #: Site # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 24	
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	PCBs via 8082	MS/MSD									LAB USE ONLY Sample Numbers
CB-30PS_0-3	9/21/17	825	soil	3	X	X									
CB-29PS_0-3		840		1											
CB-24PS_0-3		910													
CB-22PS_0-3		930													
CB-20PS_0-3		950													
CB-23PS_0-3		1030													
Rinse Blank	9/21/17	800	Aq	2	X										
CB-X	9/21/17	/	soil	1	X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil:					1										
6 = Other _____, 7 = Other _____ — Water:					/										

Project No:

Job No:

Special Instructions: Category B deliverables requested

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	9/21/17 1150	1)	
2)		/	2)	
3)		/	3)	
4)		/	4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Monday, 9/25/17
Weather: 70's (F), overcast
EAR Personnel Onsite: John Lohan (geologist), Don Griffing (traffic control), Blake Campbell (traffic control)
Drilling Subcontractor: Aarco
Onsite Time: 08:30
Offsite Time: 15:30

EAR and Aarco were onsite to install one monitoring well to replace MW-05. Rig positioning did not require traffic control. As such, EAR traffic control personnel left the site after meeting w/ EA representative (V. Barber) to review focused excavation area.

During advancement of the borehole, soil samples were collected continuously from grade surface to 25-feet below grade surface (BGS) using a split-spoon sampler (2-foot intervals). The samples were inspected lithological changes and physical evidence of contamination. Soil samples collected from the water table interface (11-13 feet BGS, 149.3 ppm) and at the interval exhibiting the highest PID reading (19-21 feet BGS, 120.4 ppm) were retained and submitted to Test America for analysis of TCL+30/TAL parameters with a 72-hr analytical turnaround time requested.

MW-05R was installed to specifications using hollow-stem augering techniques. Well is constructed of 14-feet of 2-inch diameter, 10-slot, schedule 40 PVC screen installed from 14 feet to 24 feet BGS, and 14-feet of 2-inch diameter, schedule 40 PVC riser. Gravel pack was installed from 24-feet to 12-feet BGS, with a bentonite seal from 12-feet to 9-feet BGS. Bentonite grout was installed from 9-feet BGS to near grade. The surface was finished with an 8-inch diameter, steel, bolt-down manhole set in a 24-inch by 24-inch concrete pad. The well casing was secured with a locking J-plug. Well is located 10.5-feet west of the 52nd Street west curbline, 17.5-feet north of MW-10, and 29.4-feet north of the northwest corner of the Block 803, Lot 6 building.

MW-05R was developed via pumping using a submersible pump. The well was pumped of at least 5 well volumes and two consecutive samples yielded turbidity readings less than 50 nephelometric turbidity units (NTU). Generated purge water (~40 gallons) was comingled with PAL aqueous wastes.

1 drum of mixed drill cuttings and decontamination rinsate was generated and staged onsite for EAR characterization, transportation, and disposal.

Geologist's field notes and chain of custody form are attached. A drill log for MW-05R is currently being prepared and will be submitted under separate cover.

DEC-Brooklyn5200 9/25/17 1445

Start: 530 On: 830 Lunch: 1500-1530 off: 1530 End: ~~2000~~

Purpose: OH MW installation by AARCO, & well development

On site: JPL (EAR, Geo) DG/BCC (EAR, Flaggers) Tim Kelly/Scott D. (AARCO, H driller/Assist)

Equip: 16 Transit, PID #18, Turbidimeter, YSI, W2M, Walking wheel, Camera (CCP)

Weather: ↑80's, Sunny

Notes

- Vinnie B on site upon arrival/departure
- AARCO on site upon arrival
- DG/BCC on site ~830
- As discussed w/ Vinnie B & I. Hofmann, was determined that traffic control was not needed for well installation, & wasn't set up.
- DG/Bcc off site by 1000.
- PID was zero & span calibrated prior to use.
- Well is to be advanced by AARCO, using a BK-81 drill rig implimenting hollow Stem Augers & split spoon sampling (continuous) from post hole to target depth (24' bg)

~~Split spoons~~

MW-05R

0-5' @ 940 Post Hole - Cleared

5-7 @ 957 split spoon (SS) PID 32.4 ppm

1.45/2

0.25 Black F sand, tr M, tr C; moist, no S/O

1.20 Brown same ↑

7-9' @ 1000 SS PID 25.6 ppm

1.10/2

0.30 Black same ↑

0.80 Brown same ↑

9-11 @ 1103 SS PID 68.4 ppm

1.5/2

0.25 Black same ↑

1.25 Brown F sand, tr silt, tr M, tr C; moist no S/O

11-13 @ 1010 SS PID 149.3 ppm

1.05/2

0.25 Black F sand, tr M, tr C; moist, no S/O

0.25 Brown F, tr silt, tr M, tr C; moist no S/O

0.65 Brown same ↑; wet, no S/O

13-15 @ 1020 SS PID 3.9 ppm

2/2

1.70 Brown same

0.30 Black same; wet, no stain, faint matte odor, like a mild bathroom cleaner (solvent?)

DEC-Brooklyn 5200 9/25/17

MW-05R Cont

15-17' @1027 SS PID 6.7 ppm

0.95 /2

0.90 Brown F sand, tr silt tr M, wet, no S/O

0.05 Black F to M sand, tr C, wet, no stain, same mild detergent odor (Perc)

17-19 @1038 SS PID 87.1 ppm

1.4 /2

1.40 Brown F sand, tr M, tr C, wet, stain on last 0.40', Odor + Perc

19-21 @1045 SS PID 120.4 ppm

2/2

2.0 Brown same if, wet, stained, Perc odor

21-23 @1058 SS PID 54.1 ppm

0.55/2

0.55 Brown ~~sandy~~ F sand, little M, tr C, wet light stain, Perc odor

23-25 @1102 PID 30.3 ppm

2/2

2.00 Brown F sand, little M, tr C, tr silt, wet, no stain faint odor (Perc)

- As discussed w/ I. Hofmann, the 11-13 & 19-21 intervals were selected for lab analysis labeled: MW-05R_11-13 & MW-05R_19-21 respectively

3 of 5 9S JSL

Notes Cont

- As per the well design, MW-05R was installed using ~14' of 2" Sch 40 PVC & 10 section of PVC 10 Slot Screen. Gravel pack was installed to 12' bg, w/ a bentonite seal from 12-9' bg, & brought to grade w/ bentonite grout. The well was finished w/ an 8" steel bolt down manhole, & locking J-Plug cap, & set in an ~2'x2' concrete pad.
- PVC was installed, & gravel pack, bentonite, & grout were in place by 11:55
- TwD: 24.08' DTW: 13.02' Water Column: 11.06'

1 well volume: 1.93 gal

- well development was conducted via a whale pump, & measured using 5 gal buckets, Screening via Turbidimeter & YSI only started once water began to clear up (~20 gal)

Time	Purged	pH	Sp Cond	Temp	Turbidity
1302	~25 gal	7.31	1041	16.84	80.4
1311	~30 gal	7.21	1224	17.10	60.8
1318	~35 gal	7.22	1447	17.38	21.0
1325	~40 gal	7.28	1642	17.84	20.3

- Post well development concrete pad was installed
- 1 Drum of drill cuttings was generated. decon water was added to drum. drum staged on site behind work fence.

4 of 5 9b JSL

DEC- Brooklyn 5200 9/25/17

Notes Cont

- Purge water from well development added to PAL onsite containers.
- AARCO packed/cleaned up & off site by 1430.
- T. A. Couriers on site 1448-1452 to pick up the day's samples

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Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC-Brooklyn 5200
Company: EAR	P. O. #: 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	LAB USE ONLY Project No:
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72Hr	Job No:
Phone: (631) 447-6100 Fax:		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	8260C-TCL VOCs SOM01.2 +10	9012B, Cyanide, Total	8270D, 8081B, 8082A, 6010C, 7471B								Sample Numbers
MW-05R_11-13	9/25/17	1010	Soil	6	X	X	X								
MW-05R_19-21	↓	1045	↓	6	X	X	X								
Trip Blank	9/25/17	~	Aq	2	X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil:					1	1	1								
6 = Other _____, 7 = Other _____ — Water:					2										

Special Instructions Category B deliverables requested — Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Yeh	EAR	9/25/17 1450	1)	TA
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578)

AARCO Environmental Services Corp.

DAILY JOB REPORT

Customer: EAR Date: 9/25/17 Weather: Hot Humid

Job Location: 5200 First Ave Bklyn Job #: 15-235223 Day of Week: Monday

Description of Work:

1-Hand Clear to 5Ft Bly Drill w/ 4" Auger And Sample w/ Spiltspoons
From 5Ft - 24Ft Set 2" Well in Borehole Sand Pack Bentonite Seal
Grout to Grade Manhole cover w/ Pad 10 Split Spoons Taken
1 Hand clear Refusal At 40ft Unknown obstruction 1 Drum Filled Soil
Develope 2" Well w/ whale Pump Appox 45 min Clean Work Area

Manifest # _____ Approval # _____ Gallons/Yards _____

Manifest # _____ Approval # _____ Gallons/Yards _____

Start Time: 5:00Am Leave Shop: 5:30Am

Arrive on Job Site: 7:00Am Leave Job Site (1): 2:30pm Total Hrs On-Site: _____

Arrive at Shop: _____ Clock Out Time: _____ Total Hrs for Day: _____

Overtime approved by: _____

Employee:	Prevailing Wage Yes or No:	PW Category:
Tim Kelly	Yes	Driller
Scott Decker	Yes	Helper

Equipment Used:		Material Used:	
Rig 61		1 Drum	1 Cap
		2 Bgs Concrete	1 Plug
		1¼ Bgs Bentonite Powder	1 Manhole cover
		1 Bg Portland cement	
		1 Bg Bentonite chips	
		8 Bgs Sand	
		10ft Screen 10 Slot	
		14ft Riser	

Aarco Signature: X _____ *Client Signature:* X _____

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ENVIRONMENTAL
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Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Wednesday, 9/27/17
Weather: 80's (F), humid, sun and clouds
EAR Personnel Onsite: John Lohan (geologist)
Drilling Subcontractor: Aarco
Onsite Time: 07:45
Offsite Time: 16:00

EAR and Aarco were onsite to conduct soil probing and temporary well installations. A track-mounted Geoprobe model 7822DT was used to advance the borings.

Following review of the proposed boring locations, the rig was set up at SB-35D (see attached map). After rig hit refusal at approximately 7-feet below grade, the boring was relocated approximately 6-feet west. Rig hit refusal again at 7-feet below grade at this new location and again at a third alternate location. Obstruction is believed to be a concrete slab. Per onsite EA and NYSDEC representatives (V. Barber and C. Post, respectively), no further attempts were made at this location.

At location SB-36D, rig hit refusal at approximately 8.5-feet below grade. The boring was relocated and rig again hit refusal at 8.5-feet below grade. As directed by NYSDEC (C. Post), the temporary well was installed at this depth and only the 6-8 foot interval sample was submitted for laboratory analysis. The temporary well was constructed of a 2-inch diameter, 5-foot pre-packed screen, with 4-feet of 2-inch diameter, schedule 40 PVC riser extending to 1-foot above grade. No. 0 gravel pack was installed to 2.5-feet below grade, and a bentonite seal was installed from 2.5-feet below grade to surface.

At location SB-37D, a wood pile was encountered at approximately 12-feet below grade. Drilling activities were stopped for the day. Advancement of SB-37D will be reattempted on 9/28 at a new location.

One (1) soil sample (SB-36D_6-8)as submitted to Test America, Inc. for the full suite of analyses to include: TCL VOC+10, TCL SVOC+20, PCBs, PESTS, TAL METALS, TOTAL CYANIDE. Sample was submitted for an expedited 72-hr turnaround time with NYSDEC ASP Category B deliverables requested.

All downhole tooling was decontaminated between sample intervals via Alconox scrub, followed by hexane wipe-down, and de-ionized water rinse. Decontamination rinsates were intermingled with PAL aqueous wastes.

Geologist's field notes and chain of custody form are attached.

RETAINING WALL

108.49 ft

51.88 ft

28.98 ft

SMOKE STACK FOUNDATION

36.69 ft

34.34 ft

GRANITE WALL

DIRT

BLDG WALL

GRANITE WALL

SB-35D

SB-35S

SB-36S SB-36D

SB-37S SB-37D

SB-38S SB-38D

3.10 ft

17.11

4112 4111 4110 4108 4107 4106 4105 4104 4103 4102 4101 4100 4099 4098 4097 4096 4092 4091 4109

APPROXIMATE EDGE OF CONCRETE

MATCH LINE SEE SHEET TSL-2

N E S W

Soil boring with continuous sampling at 2-ft intervals to a minimum depth of 20-ft bgs. and temporary (2" dia.) PVC groundwater well screened from 18-ft to 20-ft bgs

Temporary (2" dia.) PVC groundwater well screened from 8-ft to 10-ft bgs

LEGEND:

EXISTING ELEVATION ..... 20.96 × 20.69

TEST SAMPLE LOCATION

NOTE:

1. ALL ELEVATIONS SHOWN HEREON REFER TO THE BROOKLYN TOPOGRAPHICAL BUREAU DATUM WHICH IS 2.547 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY THE U.S. COAST AND GEODETIC SURVEY.
2. ALL SUBSURFACE UTILITIES SHOWN HEREON WERE OBTAINED FROM CITY DEPARTMENTS AND PRIVATE UTILITY COMPANIES AND THE LOCATION OF SAID UTILITIES ARE APPROXIMATE AND NOT GUARANTEED BY THE SURVEYOR. CONSULT APPROPRIATE DEPARTMENT OR COMPANY BEFORE DESIGNING ANY CONNECTIONS.
3. THERE ARE NO VISIBLE STREAMS OR NATURAL WATER COURSES ON THE PROPERTY EXCEPT AS SHOWN ON THE SURVEY.
4. PROPERTY CORNER MONUMENTS WERE NOT PLACED AS PART OF THIS SURVEY.
5. THE STATE EDUCATION LAW PROHIBITS ANY PERSON, UNLESS ACTING UNDER THE DIRECTION
6. TEST SAMPLE TABLE SEE SHEET TSL-4.

PREPARE BY: DIMENSION DEVELOPMENT

PREPARE FOR:
P.A.L. ENVIRONMENTAL
1120 QUEENS PLAZA SO.
LONG ISLAND CITY, NY 11101

DESCRIPTION	REVISION	DATE	BY	APR

DATE: AUGUST, 2017
DRAWN BY: I.Z.
CHECKED BY: W.W.

DWG TITLE:
5200 1st AVENUE
BROOKLYN,NEW YORK
PARTIAL FOUNDATION EXCAVATION

DWG. NO. TSL-3
REV.

DEC-Brooklyn 5200 9/25/17

Notes cont.

- Purge water from well development added to PAL onsite containers.
- AARCO packed/cleaned up & off Site by 1430.
- T.A. Carries on site 1448-1452 to pick up the day's samples

Location
- 10.5' W
- 17.5' E
- 29.4' NW

5 of 5

97

JPL

Brooklyn 5200 9/27/17

Start: 430 On: 745 Lunch: 1500-1530 off 1600 End 2045

Purpose: O+D Advancement/Installation of 8 soil borings, & 8 corresponding piezometers by AARCO

On site: JPL (EAR, Geo)

Equip: 16 Transit, PID #18, Camera (Rep)

Weather: mid to ↑ 80's, humid, Sunny to partially cloudy

Notes:
- Accident on 278 (BQE) delayed on site time
- Vinnie B. on site upon arrival (EA onsite Rep)
- PID zero & span calibrated prior to use
  - Ambient PID = 0.0ppm
- Discussed Scope of work w/ Vinnie B., & had brief walk about through work zone, reviewing proposed locations
- AARCO on site ~805, delayed by same accident on BQE
- Reviewed Scope of work w/ AARCO crew, & Vinnie including decon procedures.
- AARCO is using a Geoprobe model 7822DT to advance borings & Set piezometers
- notes cont. on pg 103

1 of 6

98

JPL

DEC-Brooklyn5200 9/27/17

SB-35D

0-4' @ 945 PID 0.9ppm

3.10/4

0.35 Tan F sand (fill)

0.50 Brown F Sand, trM; dry, no odor/stain

0.40 crushed red brick + concrete

1.85 Brown F Sand, trM; dry, no S/O

4-8 @ 957 PID 1.1ppm

2.15/4

2.15 Brown F Sand trM, trC; wet, no S/O

- Hit refusal @ ~ 7' bg, moved ~ 6' W

0-4' @ 1005

2.10/4

- Hit refusal @ ~ 7'. Moving location ~5' S

0-4' @ 1016 PID

2.90/4

0.55 Tan F, LittleM, trC; dry no S/O (Fill)

2.35 Brown F sand, trM, trC; moist no S/O

- Hit rejection @ ~ 7' bg

- Informed Ian of Hitting 3 refusals, then spoke w/ Vinnie B. (EA) & Charlie (NYSDEC), who had arrived on site. As per Vinnie, the refusal is most likely due to a concrete S/ab laid down when building was first constructed. As per Vinnie & Charlie, no further attempts to advance SB-35D or S will

2 of 6 99 JPL

SB-35D cont

be made @ this time, & we'll move onto the next boring.

SB-36D

0-4 @ 1100 4.8ppm

2/4

2.00 - Tan F Sand, trM, trC, trF mica

4-8 @ 1105 64.2ppm

2.50/4

0.50 Brown F Sand, trM, trC; moist, no S/O

0.120 Brown F Sand, trM; wet faint odor

0.80 D Brown Silty F Sand, trM; wet, ~~faint~~ odor

- Hit refusal @ ~ 8.5' - Concrete

- Vinnie, using skid steer, extended the layer of clean fill SB that rig could be moved ~ 8' further West

0-4 @ 1133 PID 0.9

2.65/4

2.65 Tan F Sand, trM, trC; dry -> moist, no S/O

4-8 @ 1140 PID 94.7ppm

3.30/4

1.10 Tan

2.20 Brown F Sand, trM, trC; wet, no stain, odor

- Refusal hit @ ~ 8.5' bg.

3 of 6 100 JPL

DEC-Brooklyn5200 9/27/17

SB-36D cont

- Informed Vinnie & Charlie about refusal, & they came into workzone to see. As per Vinnie & Charlie SB-36 will be set @ ~ 8' bg, where we hit refusal, & only the end point sample will be sent in for lab analysis (VOCs, SVOCs, TAL Metals, PCB, Pesticides & total Cyanide). no other intervals samples from SB-36D will be sent for analysis. Also, all any refusals will be marked w/ a metal rod for future reference (except for those from SB-35D)

- ~~Well~~ ~~Consists of~~ As discussed w/ I. Hofmann Piezometer ~~will~~ consists of a 2" Sch 40 PVC w/ a prepacked screen, 5' long, & associated riser to ~ 1' above grade (~3' to grade + ~1' stick up). In addition to the prepacked screen N. O Sand ~~will be~~ was installed to ~2.5' bg, w/ a bentonite seal from 2.5' bg to grade.

SB-37D

0-4 @ 1332 PID 84 ppm

2.45/4

0.65 Tan F Sand, tr M, tr C; dry no s/o (fill)

1.80 Brown/rl F Sand, tr M; moist no s/o

4-8 @ 1340 PID 62.1 ppm

1.75/4

0.55 Brown Same

1.20 Brown Same, wet, +3" piece of wood Piling

8-12 @ 1345 PID 84.9

2.25/4

2.25 Wood piling piling ground/in pieces

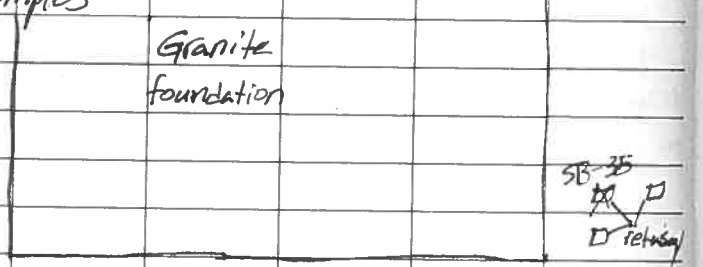
- As per Vinnie B. boring went into an old wood piling. They should only be ~ 12" in dia. We will move ~ 1' closer to the granite foundation & try again

- Work stopped @ ~ 1400. Crew was working in ↑ heat/sunlight in Tyvek suits & I felt that to keep operating posed risk of heat exhaustion.

DEC-Brooklyn5200 9/27/17

Notes Cont

- While operating the rig, & in the workzone Tyvek suits & overboots were used by all AARCO & EAR personel.
- All PPE & IDW (investigation derived waste) was put into EAR's IDW drum already staged on site
- Between Samples & boring locations AARCO deconed all sampling equipment using Alconox, Hexane, & washed with water
- AARCO off site ~ 1430
- Vinnie B off site ~1525
- Charlie (DEC) on site ~1000, off ~1400. (rough estimates, did not personally see Charlie arrive/leave)
- T.A Pick up on site 1600-1605 to get the days samples



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Edison, New Jersey 08817
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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P. O. #: Site # 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYS DEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72 Hr	
Phone: (631) 447/6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	8260	SVOA, TAL Metals, PCB, Pesticides	TPH-Extractable								LAB USE ONLY: Project No: / Job No: / Sample Numbers
SB-36D_6-8	9/27/17	1140	soil	6	X	X									
Trip Blank	9/27/17	✓	Aq	2	X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil:					1	1									
6 = Other _____, 7 = Other _____ — Water:					2										

Special Instructions Category B deliverables requested — Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) John Lohn	EAR	9/27/17 1610	1)	
2)			2)	
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

AARCO Environmental Services Corp.

DAILY JOB REPORT

Customer: EAR Date: 9/27/17 Weather: 85°F

Job Location: 5200 First Ave, Brooklyn Job #: _____ Day of Week: Wednesday

Description of Work:
- 6 environmental borings w/ 4' macro
  - 3 to 7½ (refusal)
  - 2 to 8 (refusal)
  - 1 to 16 - drilled through wood & client told me to move
- Installed 1 gwmw to 8' BSG w/ 5' pre packed screen.

Manifest # _____ Approval # _____ Gallons/Yards _____

Manifest # _____ Approval # _____ Gallons/Yards _____

Start Time: 5:00 Leave Shop: 5:30

Arrive on Job Site: 8:00 Leave Job Site (1): 2:30 Total Hrs On-Site: 6.5

Arrive at Shop: _____ Clock Out Time: _____ Total Hrs for Day: _____

Overtime approved by: _____)

Employee:	Prevailing Wage Yes or No:	PW Category:
Adam Hutchinson		
Will Scheiner	/	/

Equipment Used:		Material Used:	
D214		½ bag bentonite	
7822DT		1 bag of sand	
		1, 5' pre pack screen	
		1 riser	

Aarco Signature: X _____ *Client Signature:* X _____

50 Gear Avenue, Lindenhurst, NY 11757 Phone (631) 586-5900 Fax (631) 586-5910

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Thursday, 9/28/17
Weather: 70's-80's (F)
EAR Personnel Onsite: John Lohan (geologist)
Drilling Subcontractor: Aarco
Onsite Time: 06:30
Offsite Time: 16:30

EAR and Aarco were onsite to continue soil probing and temporary well installations. A track-mounted Geoprobe model 7822DT was used to advance the borings.

Probing began at a new location for SB-37. Probe hit refusal at 8-feet below grade (BG) and was relocated again. The boring was advanced to 24-feet BG. A temporary well (SB-37D) was installed which was constructed of a 2-inch diameter, 5-foot pre-packed screen, with 4-feet of 2-inch diameter, schedule 40 PVC riser extending to 2-feet above grade. No. 0 gravel pack was installed to 17-feet BG, and a bentonite seal was installed from 17-feet BG to surface. A complementary, shallow well (SB-37S) was installed adjacent to SB-37D to a total depth of 11-feet BG. SB-37S was constructed of a 2-inch diameter, 5-foot pre-packed screen, with 4-feet of 2-inch diameter, schedule 40 PVC riser extending to 2.5-feett above grade. No. 0 gravel pack was installed to 4-feet BG, and a bentonite seal was installed from 4-feet BG to surface.

At location SB-38, probe was able to advance to 28-feet BG. However, when attempting to advance larger diameter rods for the installation of the temporary well, rig hit refusal at approximately 11.5 feet BG. This corresponds to the depth interval at which concrete was observed during sampling activities (see geologist's notes). Per onsite EA representative, the temporary well was set at 11.5-feet BG and was constructed of a 2-inch diameter, 5-foot pre-packed screen, with 4-feet of 2-inch diameter, schedule 40 PVC riser extending to 2.5-feet above grade. No. 0 gravel pack was installed to 4.5-feet BG, and a bentonite seal was installed from 4.5-feet BG to surface.

Twelve (12) soil samples were submitted to Test America, Inc. for analysis of PCB's via EPA Method 8082. Six (6) of the twelve samples (those corresponding to depth intervals of the water table interface, approximate depth of upcoming focused soil excavation, and boring terminus) were also submitted for the full suite of analyses to include: TCL VOC+10, TCL SVOC+20, PESTS, TAL METALS, TOTAL CYANIDE. One (1) aqueous sample (rinse blank) was

submitted for analysis of PCB's via EPA Method 8082. All samples were submitted for expedited turnaround times with NYSDEC ASP Category B deliverables requested.

A total of four (4) temporary wells were installed 9/27-9/28/17:
SB-36 (installed to 8.5-feet BG)
SB-37S (installed to 11-feet BG)
SB-37D (installed to 24-feet BG)
SB-38 (installed to 11.5-feet BG)

All downhole tooling was decontaminated between sample intervals via Alconox scrub, followed by hexane wipe-down, and de-ionized water rinse. Decontamination rinsates were intermingled with PAL aqueous wastes.

Geologist's field notes and chain of custody form are attached.

RETAINING WALL

108.49 ft

51.88 ft

28.96 ft

SMOKE STACK FOUNDATION

36.69 ft

34.34 ft

GRANITE WALL

DIRT

BLDG WALL

4112

4111

4110

4108

4107

4106

4105

4104

4103

4102

4101

4100

4099

4098

4097

4096

4092

4091

4109

SB-35D

SB-35S

No wells installed

1 well installed to 8.5' BG

SB-36S

SB-36D

GRANITE WALL

1 well installed to 11' BG. 1 well installed to 24' BG

SB-37S

SB-37D

1 well installed to 11.5' BG

3.10 ft

SB-38S

SB-38D

17.11

APPROXIMATE EDGE OF CONCRETE

MATCH LINE SEE SHEET TSL-2

N E S W

Soil boring with continuous sampling at 2-ft intervals to a minimum depth of 20-ft bgs. and temporary (2" dia.) PVC groundwater well screened from 18-ft to 20-ft bgs

Temporary (2" dia.) PVC groundwater well screened from 8-ft to 10-ft bgs

LEGEND:

EXISTING ELEVATION ..... 20.96 × 20.69

TEST SAMPLE LOCATION

NOTE:

1. ALL ELEVATIONS SHOWN HEREON REFER TO THE BROOKLYN TOPOGRAPHICAL BUREAU DATUM WHICH IS 2.547 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY THE U.S. COAST AND GEODETIC SURVEY.
2. ALL SUBSURFACE UTILITIES SHOWN HEREON WERE OBTAINED FROM CITY DEPARTMENTS AND PRIVATE UTILITY COMPANIES AND THE LOCATION OF SAID UTILITIES ARE APPROXIMATE AND NOT GUARANTEED BY THE SURVEYOR. CONSULT APPROPRIATE DEPARTMENT OR COMPANY BEFORE DESIGNING ANY CONNECTIONS.
3. THERE ARE NO VISIBLE STREAMS OR NATURAL WATER COURSES ON THE PROPERTY EXCEPT AS SHOWN ON THE SURVEY.
4. PROPERTY CORNER MONUMENTS WERE NOT PLACED AS PART OF THIS SURVEY.
5. THE STATE EDUCATION LAW PROHIBITS ANY PERSON, UNLESS ACTING UNDER THE DIRECTION
6. TEST SAMPLE TABLE SEE SHEET TSL-4.

PREPARE BY:

DIMENSION DEVELOPMENT

PREPARE FOR:

P.A.L. ENVIRONMENTAL
1120 QUEENS PLAZA SO.
LONG ISLAND CITY, NY 11101

DESCRIPTION	REVISION	DATE	BY	APR

DATE: AUGUST, 2017
DRAWN BY: I.Z.
CHECKED BY: W.W.

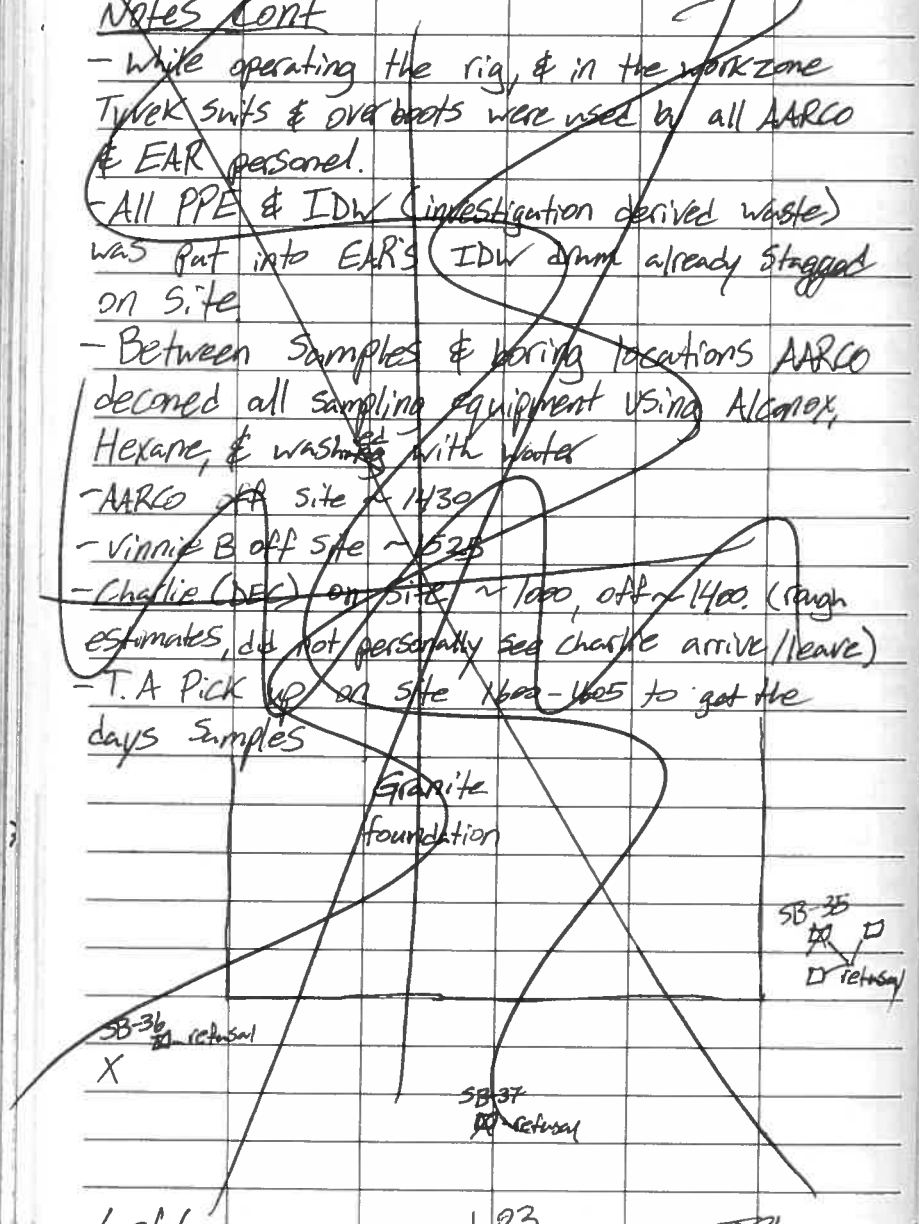
DWG TITLE:
5200 1st AVENUE
BROOKLYN,NEW YORK
PARTIAL FOUNDATION EXCAVATION

DWG. NO. TSL-3
REV.

DEC-Brooklyn5200 9/27/17

Notes Cont

- While operating the rig, & in the workzone Tyvek suits & overboots were used by all AARCO & EAR personel.
- All PPE & IDW (investigation derived waste) was put into EAR's IDW drum already staged on site.
- Between samples & boring locations AARCO deconed all sampling equipment using Alconox, Hexane, & washed with water
- AARCO off site @ 1430
- Vinnie B off site ~1525
- Charlie (DEC) on site ~1000, off ~1400. (rough estimates, did not personally see charlie arrive/leave)
- T.A Pick up on site 1600-1605 to get the days samples



6 of 6 103 JPL

DEC-Brooklyn5200 9/28/17

Start: 415 on: 630 Lunch 1400-1430 off: 1630 End: 2100

Purpose: continue O+D of soil boring advancement & Piezometer installation

On Site: JPL (EAR, Geo), Adam Hutchinson/Nick Turro (AARCo, Hdr.ill/Assist)

Equip: 16 Transit, PID #18, WLM, Camera (P&P), Tape measure,

Weather: ↑70's -> ↓80's

Notes:

- Vinnie B. (EA on site rep) on site ~645
- PID calibration checked prior to use
  - Ambient PID = 0.1 ppm
- AARCo on site ~730, off by 1600
- Charlie P. (DEC) onsite ~1000, offsite ~1330 (Like on 9/27 these are rough estimates, did not see when Charlie arrived/left)
- AARCo using Geoprobe model 7822DT to collect 4' macro core samples via direct push, & 3¾" rods to install temp Piezometers
- between samples & between points, AARCo decontaminated equipment using Alconox wash, Hexane wipe down & rinsed w/ water

1 of 6 104 JPL

DEC-Brooklyn5200 9/28/17

SB-37D

0-4' @ 820 Macro core (MC) PID 1.1 ppm

3.75/4

0.90 Tan F sand, trM sand; dry no s/o (fill)

2.95 Brown F sand, trM, trC; moist, no s/o

4-8' @ 825 MC PID 1.9 ppm

4.00/4

0.35 Tan fill

0.15 Brown F sand, trM, trC; moist no s/o

3.50 Brown Same ↓; wet, sheen, odor.

- Hit rejection @ ~ 8' bg closer ↓

- Discussed situation w/ Vinnie & Charlie, relocated to where the trench discharges.

0-4 @ 845 MC PID 68.4 ppm

3.70/4

0.65 Tan Fill

1.25 Brown F sand, trM, trC; dry no s/o

0.40 Brown Same ↓; moist no s/o

0.40 Black Same ↓; wet, no stain, odor (~0.20 concrete end)

4-8 @ 850 MC PID 101.9 ppm

3.9/4

0.15 backfill (Fill

2.75 Brown F sand, trM, trC; wet, no stain, odor

8-12 @ 857 PID 41.1 ppm

2.95/4

SB-37D Cont

-0.60 Brown silty F sand, TrM; wet, no stain, odor

-2.35 Brown Same ↓; wet, no stain, faint odor

12-16 @ 905 PID 90.2 ppm

3.8/4

1.50 Brown/black silty F sand, TrM; wet, no stain, odor

2.30 Brown Same ↓; wet no stain, faint odor

1.00 Brown F+M sand, some C; wet, no s/o (Soupy)

16-20 @ 912 PID 79.2 ppm

4.0/4

4.00 Brown F sand, some M, little C; wet, no stain, odor

20-24' @ 928 PID 92.8 ppm

3.40/4

3.40 Brown F+M sand, little C; wet, no stain, faint odor

- SB-37D set @ ~ 24' bg (a foot was added to compensate for the amount of fill encountered @ the top). The piezometer consists of 5' of 10 slot prepacked screen, Sch 40, 2" dia, & ~ 19' of riser + ~ 2' of stick up. Sand installed to ~ 17' bg, & bentonite from ~ 17'->0' bg

- SB-37D set 16' bg (again 1' added bc of fill). 5' of 2" dia, Sch 40, prepacked 10 slot screen w/ ~ 6' of riser & 2.5' of stick up. Sand installed to ~ 4' bg & bentonite from 4'-0' bg

DEC-Brooklyn52.00 9/28/17

SB-38D

0-4 @ 1223 MC PID 0.3 ppm
3.00 /4
1.40/60 Tan F sand, tr M sand; dry, no s/o (Fill)
1.60 Brown F sand, tr M; moist, no s/o
4-8 @ 1226 MC
2.7/4
1.00 Brown same; moist, no s/o
1.70 Brown same ↓; wet no s/o
8-12 @ 1235 MC PID 0.8 ppm
4 /4
2.4 Brown same ↓; wet
0.65 Brown F sand, tr M, little gravel; wet
0.95 Concrete, crushed
12-16 @ 1246 MC PID 2.4 ppm
4/4
2.00 Brown F sand, little gravel, tr M; wet
1.40 Concrete
0.60 Wood (from piling?)
16-20 @ 1303 MC PID 7.1 ppm
3.8 /4
1.95 Dbrown/gray F sand, tr M, tr concrete, tr wood
1.85 Brown F sand, some M, trC; wet no s/o
20-24 @ 1320 MC PID 0.4 ppm
3.6/4

SB-38D cont

3.60 Red/brown F sand, little M, trC; wet, no s/o
24-28 @ / PID ——
— /4
- Sample fell out of sleeve. will redrill
24-28 @ 1340 MC PID 3.4 ppm
3.8/4
3.80 red/brown same ↓ 3 3/4"
- When advancing the rods (3/4" dia) to set the deeper piezometer, AARCO hit refusal @ ~11.5' bg, which corresponds to where we saw concrete first appear in the macro cores. AARCo could not advance past the concrete so, as per Winnie, we will set a single piezometer @ ~11.5' bg.
- SB-38 set ~11.8' bg, consists of a 5' section of 2" dia. Sch 40 pre-packed screen, 6' of Sch 40 PVC riser with ~2.5' of stick up. #0 gravel installed to 4.5' bg & bentonite from 4.5' bg to grade.
- As discussed w/ Charlie, SB-38D_24-28 will not be selected for any lab analysis.

DEC-Brooklyn5200 9/28/17

Notes Cont

- Before starting on SB-38D, as requested by Vinnie, AARCO collected a single macro core from manhole in trench line to ~~toca~~ determine if it has a bottom. Concrete refusal @ ~3' bg. contents not described.
- Also as per vinnie, one extra advancement was performed in vicinity of SB-37D, but closer to the granite ~~Sh~~ chimney foundation, just to determine where we'd hit refusal, no samples collected, direct push. Refusal @ 8' bg.
- Test America Courier on site 1410 to collect samples. only samples from SB-37D were relinquished. The others (from SB-38D) were not ready & were brought to EAR & relinquished to EAR sample fridge for pick up on 9/29/17, by T.A. Courier.
- AARCO finished final decon & packed up probe by ~ 1545. off site by 1600

BEC-Brooklyn5200 9/29/17

Start: 430 on: 630 Lunch 1300-1330 off 1330 End

Purpose: O+D development of piezometers installed from 9/27 -> 28/17 by AARCO

On Site: JPL (EAR, Geo) Adam, Hutchinson (AARCO,

Equip: 16 Transit, WLM, YSI, Camera (PCP), Turbidimeter (Pine rental)

Weather: ↑ 60's, Partly Cloudy

Notes

- Vinnie B. on site ~ 645
- AARCO on site @ 700, off @ 1300
- Turbidimeter calibration checked prior to use, all calibration vials registered within 0.5 NTU of labeled value.
- As discussed w/ I. Hofmann, since the installed piezometers frequently need to recharge, YSI will not be used for field screening as the readings wouldn't be able to stablize before needing to recharge.
- Piezometer development to be performed by AARCO via Whale pump
- As discussed w/ I Hofmann, will not spend more than ~1 hour developing any 1 well, to make sure we get to all ~~points~~ today

AARCO Environmental Services Corp.

DAILY JOB REPORT

Customer: EAR Date: 9/28/17 Weather: 78°F Sunny

Job Location: 5200 1st Ave, Brooklyn Job #: 15-235269 Day of Week: Thursday

Description of Work:

- Environmental boring w/ 4' macro to 8' BSG & hit refusal
- Environmental boring w 4' macro to 24' BSG
- Converted boring to 23' GWMW w/ 5' pre packed screen
- Backfilled w O Sand & bentonite to grade
- Installed a 10' GWMW with 5' pre pack screen
- Backfilled & Bentonite to grade
- Environmental boring to 24' BSG w/ 4' macro
- Converted into 11½' GWMW w/ 5' pre pack screen

Decon all tooling with alconox & Hexane

- one boring to 3½' BSG & refusal
- 1 more boring to 8' & hit refusal

Manifest # Approval # Gallons/Yards

Manifest # Approval # Gallons/Yards

Start Time: 5:00 Leave Shop: 5:30

Arrive on Job Site: 7:30 Leave Job Site (1): 4:00p Total Hrs On-Site: 8.5

Arrive at Shop: Clock Out Time: Total Hrs for Day:

Overtime approved by:

Employee:	Prevailing Wage Yes or No:	PW Category:
Adam Hutchinson	/	/
Nick Turco	/	/

Equipment Used:		Material Used:	
D6K		3- 5' pre pack screens	
7822DT		4- 2' risers	
		5- Bags of O sand	
		½ bucket of bentonite chips	

Aarco Signature: X *Client Signature*: X

50 Gear Avenue, Lindenhurst, NY 11757 Phone (631) 586-5900 Fax (631) 586-5910

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC - Brooklyn 5200
Company: EAR	P. O. #: Site 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYS DEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐	
Phone: (631) 447-6400 Fax:	1 Week ☐ Other ☒ 72 Hr	

Sample Identification	Date	Time	Matrix	No. of Cont.	8082A	8260C	9012B	8270D, 8081B 6010C								LAB USE ONLY Project No: / Job No: / Sample Numbers
SB-37D_0-4	9/28/17		Soil	1	X											
SB-37D_4-8	↓		↓	7	↓	X	X	X								
SB-37D_8-12				7		X	X	X								
SB-37D_12-16				1												
SB-37D_16-20				1												
SB-37D_20-24				7		X	X	X								
~~Rinse Blank~~	~~9/28/17~~	~~800~~	~~Aq~~	~~2~~	~~X~~											
Trip Blank	9/28/17	—	Aq	2		X										
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:	1	6	1	1								
6 = Other Terra Core, 7 = Other ___				Water:	1	2										

Special Instructions

Water Metals Filtered (Yes/No)? ___

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	9/28/17 | 1410	1)	TAN
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC-Brooklyn 5200
Company: EAR	P.O.#: Site 224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	LAB USE ONLY Project No:
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 24 Hr	Job No: 141934
Phone: (631) 447-6400 Fax:		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	8082A	8260	1-Day RUSH	Sample Numbers
SB-38D_0-4	9/28/17	1223	Soil	1	X			1
SB-38D_12-16	↓	1246	↓	1	↓			2
SB-38D_16-20	↓	1303	↓	1	↓			3
Rinse Blank	9/28/17	800	Aq	2	X			

460-141934 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH — Soil: 1
6 = Other _____, 7 = Other _____ — Water: 1

Special Instructions Category B deliverables requested — Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	9/28/17 2030	1) EAR Sample Fridge	EAR
Relinquished by	Company	Date / Time	Received by	Company
2) EAR Sample Fridge	EAR	9/29/17 0650	2)	EAR
Relinquished by	Company	Date / Time	Received by	Company
3)	EAR	9/29/17 0650	3)	T.A
Relinquished by	Company	Date / Time	Received by	Company
4)	T.A	9/29/17	4)	TAL

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578) 2.4/2.4 IRM Nos

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): Ian Hofmann	Samplers Name (Printed): EAR	Site/Project Identification: DEC-Brooklyn 5200
Company: EAR	P.O.#: Site #224015	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC DKQP: ☐
Address: 225 Atlantic Ave	Analysis Turnaround Time: Standard ☐	LAB USE ONLY Project No:
City: Patchogue State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 72Hr	Job No: 141938
Phone: (631) 447-6400 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	8260C	8082A	9012B	8270D 608 8081B	SHORT HOLD	Sample Numbers
SB-38D_4-8	9/28/17	1228	Soil	7	X	X	X	X		1
SB-38D_8-12	↓	1235	↓	7	↓	↓	↓	↓		2
SB-38D_20-24	↓	1320	↓	7	↓	↓	↓	↓		3

460-141940 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other Terracore, 7 = Other _____

Soil:	6	1	1
Water:			

Special Instructions Category B deliverables requested — Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	EAR	9/28/17 2030	1) EAR Sample Fridge	EAR
2) EAR Sample Fridge	EAR	9/29/17 0650	2)	EAR
3)	EAR	9/29/17 0650	3)	T. A
4)	T. A	9/29/17 7:10	4)	TAG

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

TAL - 0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578)

2.7/2.4 ERA 9 Nov

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Friday, 9/29/17
Weather: 60's (F), partly cloudy
EAR Personnel Onsite: John Lohan (geologist)
Drilling Subcontractor: Aarco
Onsite Time: 06:30
Offsite Time: 13:30

EAR and Aarco were onsite to develop onsite temporary wells installed 9/27-9/28/17. All wells were developed via pumping using a submersible pump. All wells exhibited poor recharge at flow rates from 0.1 to 0.5 gallons per minute. Wells had to be rested periodically to allow for recharge. Due to poor recharge, water quality parameters using a YSI with flow-through cell could not be collected. Turbidity was monitored using a Hach 2100Q nephelometer.

MW-38 was purged of approximately 13 well volumes. Minimal improvement in turbidity was visually observed. Turbidity readings remained out of range of the instrument after 13 well volumes.

MW-36 was purged of 5 well volumes. Minimal improvement of turbidity was visually observed. Turbidity remained over 800 NTU after purging 5 well volumes. Very poor recharge was observed at this location.

MW-37S was purged of approximately 12 well volumes, whereupon turbidity levels were below 50 NTU. MW-37D was purged of approximately 6 well volumes, whereupon turbidity levels were below 50 NTU.

Purge water generated from the development activities were comingled with PAL's onsite wastewater.

Geologist's field notes are attached.

DEC-Brooklyn5200 9/28/17

Notes Cont

- Before starting on SB-38D, as requested by Vinnie, AARCo collected a single macro core from manhole in trench line to ~~to~~ determine if it has a bottom. Concrete refusal @ ~3' bg. contents not described.
- Also as per Vinnie, one extra advancement was performed in vicinity of SB-37D, but closer to the granite ~~stud~~ chimney foundation, just to determine where we'd hit refusal, No samples collected, direct push. Refusal @ 8' bg.
- Test America courier on site 1410 to collect samples, only samples from SB-37D were relinquished. The others (from SB-38D) were not ready & were brought to EAR & relinquished to EAR sample fridge for pick up on 9/29/17, by T.A. courier.
- AARCo finished final decon & packed up probe by ~15 45. off site by 1600

6 of 6 109 JPL

DEC-Brooklyn5200 9/29/17

Start: 430 on: 630 Lunch 1300-1330 off 1330 End

Purpose: O+D development of piezometers installed from 9/27 -> 28/17 by AARCo

On Site: JPL (EAR, Geo) Adam Hutchinson (AARCo,

Equip: 16 Transit, WLM, YSI, Camera (PCP), Turbidimeter (Pine rental)

Weather: ↑ 60's, Partly Cloudy

Notes

- Vinnie B. on site ~645
- AARCo on site @ 700, off @ 1300
- Turbidimeter calibration checked prior to use, all calibration vials registered within 0.5 NTU of labeled value.
- AS discussed w/ I. Hofmann, since the installed piezometers frequently need to recharge, YSI will not be used for field screening as the readings wouldn't be able to stablize before needing to recharge.
- Piezometer development to be performed by AARCo via whale pump
- AS discussed w/ I Hofmann, will not spend more than ~1 hour developing any 1 well, to make sure we get to all ~~points~~ today

1 of 4 110 JPL

DEC-Brooklyn 5200 9/29/17

SB-38D

TWD: 10.97' DTW: 7.13' Stick up: 2.70'
Water column: 3.84' 1 well volume: 0.67 gal
Start: 0806 (NTU) 5 well volume: 3.36 gal

Time	Purge	Turbidity
912	~8 gal	overrange
917	~8.5 gal	overrange
923	~9.0	overrange

- Purges for 20-25 seconds before running dry, purging ~1/3 -> 1/2 gallon at a time, using 5 min intervals

TWD (End): 10.99' DTW (End): 6.40'

- Water started dark brown & cleared to light brown after ~ 7 gal, then plateaued.

SB-36D

TWD: 8.14' DTW: 5.40 Stick up: 0.35'
Water column: 2.74 1 well volume: 0.47
Start @ 935 (NTU) 5 well volume: 2.39

Time	Purge	Turbidity
1019	2.40 gal	802
1024	2.50 gal	820
1029	2.75 gal	808

- Purges for ~ 10 seconds before running dry, purging ~ 1/4' 1/10 gallon, at a time, over 5 min intervals
- Water started as Dark brown & cleared up to light brown after ~ 2 gal, then plateaued.

TWD (End): 8.14 DTW (End): 7.79

SB-37S

TWD: 10.21' DTW: 5.34' Stick up: 2.31'
Water column: 4.87' 1 well volume: 0.85 gal
Start: 1045 (NTU) 5 well volume: 4.26 gal

Time	Purge	Turbidity
1103	~8.0 gal	36.4
1110	~9.0 gal	8.12
1118	~10 gal	17.2

- Purges for ~ 1 min before running dry purging ~ 1 gallon at a time, w/ 5 min recharge period
- Water started dark reddish brown, light brown @ ~ 6 gal, & clear fairly transparent @ ~ 8 gal

TWD (End): 10.20 DTW (End): 8.14

SB-37D

TWD: 23.55' DTW: 5.23' Stick up: 1.82'
Water column: 18.30' 1 well volume: 3.20 gal
Start: 1135 (NTU) 5 well volume: 16.01 gal

Time	Purge	Turbidity
1223	~16 gal	87.6
1230	~18.5	48.1
1238	~21	47.7

- Purges for ~ 2 min before running dry, Purging 2 -> 2.5 gallons at a time, w/ 5 min recharge period
- Water started dark reddish brown, light brown @ ~ 10 gal, & transparent @ ~ 16 gal
- water has sweet, solvent odor

TWD (End): 23.55 DTW (End): 12.25

DEC-Brooklyn5200 9/29/17

Notes cont

- Before purging each point, & while they were recharging, the points were agitated to suspend any sediments sitting @ the bottom.
- Purge water disposed of in onsite PAL storage container.

AARCO Environmental Services Corp.

DAILY JOB REPORT

Customer: EAR Date: 9/29/17 Weather: 72°F Partly Cloudy

Job Location: 5200 1st Ave, Brooklyn Job #: 15-235269 Day of Week: Friday

Description of Work:
- Developed 4 gwmw's
- Filled 1 drum w/ purge water

Manifest # _____ Approval # _____ Gallons/Yards _____

Manifest # _____ Approval # _____ Gallons/Yards _____

Start Time: 4:00a Leave Shop: 5:15a

Arrive on Job Site: 7:00a Leave Job Site (1): 1:00p Total Hrs On-Site: 6

Arrive at Shop: _____ Clock Out Time: _____ Total Hrs for Day: _____

Overtime approved by: _____

Employee:	Prevailing Wage Yes or No:	PW Category:
Adam Hutchinson	/	/

Equipment Used:		Material Used:	
GMC		approx 60' of tubing	

Aarco Signature: X _____ *Client Signature:* X _____

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Monday, 10/2/17
Weather: 60's-70's°F+, clear
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Augusto Duchimaza (technician), Mike Ford (survey team), Donald Griffing (survey team)
Onsite Time: 08:45
Offsite Time: 13:00

EAR conducted groundwater sampling activities at a total of three locations: MW-05R, MW-10, and MW-13. A survey team was also onsite to complete well survey/tie-in activities.

Groundwater samples were collected utilizing peristaltic pumps and HDPE tubing. A new length of HDPE tubing was utilized at each well. Prior to sample collection, depth-to-water and total well depths were gauged to the nearest 0.01 foot and recorded. A water quality meter was used to monitor water quality parameters. Each monitoring well was purged of at least one standing well volume then screened for pH, temperature, and conductivity until stabilization was reached. Dissolved oxygen concentrations, and oxidation reduction potential (ORP) were recorded as well.

Downhole equipment such as water level meters were decontaminated between each well location. Decontamination consisted of gross contaminant removal, Liquinox wash, and distilled water rinse.

EAR collected a total of 4 aqueous samples (including one blind duplicate). All samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of VOC's via EPA Method 8260C, SVOC's via 8270, pesticides via 8081, PCB's via 8082, TAL metals via 6020/7470 (filtered and unfiltered), and total cyanide via 9012. All samples were submitted for analysis at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

Geologist's field notes and chain of custody forms are attached.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
EAR	Ian Hofmann	10/2/17	274469
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
225 Atlantic Ave		460231/2	
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Patchogue / NY / 11772			
Project Name and Location (State)	**Carrier/Waybill Number**		
DEC Brooklyn 5200 (NY)			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8270D-TCL+TIC BNA	8082A-PCBs	8081B-TCL for Pest	6020A-TAL Metals	6020A-Dissolved TAL Metals	8260B-Soil 5035/10 TCL+10	9012B-Cyanide Total	MS/MSD	Special Instructions/ Conditions of Receipt
MW-10	10/2/17	945		X			21		3	9	3		X	X	X	X	X	X	X	X	Category B
MW-05R	10/2/17	1050		X			7		1	3	1		X	X	X	X	X	X	X		deliverables
MW-13	10/2/17	1212		X			7		1	3	1		X	X	X	X	X	X	X		requested
MW-X	10/2/17	/																			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 72 Hr

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
John	10/2/17	1300			
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Groundwater Sampling Sheet: Stabilization Purge Method

Site: DEC-Brooklyn5200
Date: 10/2/17
Techs: BCC/AD/SPL

Start Time: 530
End Time: 1545

Equipment: See W.O.

	WELL ID	Well Size (inches)	Total Well Depth (ft.)	Depth to Water (ft.)	Length of Column (ft.)	One Standing Water Well Volume (gal.)	Total Gallons Purged (gal.)	Time Sampled (hh:mm)	[check units on YSI and confirm that parameter is in the correct units] DO (mg/L)	Temp. (°C)	pH	ORP (mV)	Specific Conductance (uS/cm)	NOTES
✱	MW-10	2	24.01	13.69	10.32	1.80	3.0	945	1.69	17.31	6.95	-91.2	514	
✱	MW-05R	2	25.10	~~25.19~~ 12.77	12.33	2.15	4.0	1050	0.97	18.08	7.21	-114.3	1331	
	MW-13	2	26.17	17.23	8.94	1.56	4.5	1212	1.56	18.35	6.65	85.8	1056	

Well Size (inches)	0.5	0.75	1	1.5	2	4	6	8
Multiplier based on 4 well volume	0.06	0.11	0.18	0.42	0.7	2.65	6	10.4
Multiplier based on 1 well volume	0.015	0.0275	0.045	0.105	0.175	0.663	1.5	2.6

Purge a minimum of 1 well volume & then wait for stabilization

Tolerance for stability:

Specific Conductance (3%)

temperature (3%)

pH +/- 0.1 units

Record DO & ORP but DO NOT use for stability

Guidelines for Field Screening Values:

pH range = 5 - 9

Temperature range = 10 - 19 (except for VERY warm days - please try to keep purge container cool/shaded area)

DO range = less than 12 (unless very close to a sparge well)

✱ MS/MSD collected

✱ MW-05R = MW-X

If readings are not in this range please try to recalibrate (except for temp, which cannot be calibrated). If they remain out of range, please do not write the value on the sheet - it is an equipment error.

PLEASE CONTACT THE PMs IF THERE IS A PROBLEM. THIS DATA IS IMPORTANT AND INCORRECT DATA IS WORSE THAN NO DATA. WE REALLY APPRECIATE YOUR WORK TO KEEP E.A.R. A TOP COMPANY IN THE FIELD

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Empire Electric
NYSDEC Site No. 224015
Daily Field Report

Date: Tuesday, 10/3/17
Weather: 60+°F+, sun & clouds
EAR Personnel Onsite: John Lohan (geologist), Blake Campbell (foreman), Augusto Duchimaza (technician)
Onsite Time: 08:45
Offsite Time: 13:30

EAR conducted groundwater sampling activities at a total of four locations: MW-36, MW-37S, MW-37D, and MW-38. A follow-up post-scarification concrete sample was collected at CB-30.

At CB-30, a drill with a carbide masonry bit was advanced to 3-inches below grade surface (BGS), and pulverized concrete drill spoils were collected for laboratory analysis. All drilling and sampling equipment was decontaminated prior to and following sample collection. Decontamination consisted of gross contaminant removal and hexane rinse followed by Liquinox wash and distilled water rinse.

Groundwater samples were collected utilizing peristaltic pumps and HDPE tubing. A new length of HDPE tubing was utilized at each well. Prior to sample collection, depth-to-water and total well depths were gauged to the nearest 0.01 foot and recorded. A water quality meter was used to monitor water quality parameters. Each monitoring well was purged of at least one standing well volume then screened for pH, temperature, and conductivity until stabilization was reached. Dissolved oxygen concentrations, and oxidation reduction potential (ORP) were recorded as well.

Downhole equipment such as water level meters were decontaminated between each well location. Decontamination consisted of gross contaminant removal, Liquinox wash, and distilled water rinse.

EAR collected a total of 4 aqueous samples and 1 concrete sample. All aqueous samples were submitted to Test America, Inc. (lab provided field courier pickup) for analysis of VOC's via EPA Method 8260C, SVOC's via 8270, pesticides via 8081, PCB's via 8082, TAL metals via 6020/7470 (filtered and unfiltered), and total cyanide via 9012. Concrete sample was submitted for analysis of PCB's via 8082. All samples were submitted for analysis at an expedited 72-hour turnaround time with NYSDEC ASP Category B deliverables requested.

Geologist's field notes and chain of custody forms are attached.

Groundwater Sampling Sheet: Stabilization Purge Method

Site: DEC-Brooklyn 5200

Date: 10/3/17

Techs: AD/BCC/JPL

Start Time: 0530

End Time:

Equipment: See W.O.

								[check units on YSI and confirm that parameter is in the correct units]					
WELL ID	Well Size (inches)	Total Well Depth (ft.)	Depth to Water (ft.)	Length of Column (ft.)	One Standing Water Well Volume (gal.)	Total Gallons Purged (gal.)	Time Sampled (hh:mm)	DO (mg/L)	Temp. (°C)	pH	ORP (mV)	Specific Conductance (uS/cm)	NOTES
SB-38	2	13.67	8.86	4.81	0.84	2.50	1000	1.78	1800	8.23	-190.2	800	
SB-36	2	8.49	5.78	2.71	0.47	2.50	1200	1.14	15.10	8.12	70.1	562	
SB-37S	2	12.54	7.65	4.89	0.85	3.0	1040	0.52	14.36	7.02	-96.6	706	
SB-37D	2	25.40	7.09	18.31	3.20	4.0	1125	0.54	12.49	6.35	106.3	1007	

Well Size (inches)	0.5	0.75	1	1.5	2	4	6	8
Multiplier based on 4 well volume	0.06	0.11	0.18	0.42	0.7	2.65	6	10.4
Multiplier based on 1 well volume	0.015	0.0275	0.045	0.105	0.175	0.663	1.5	2.6

Purge a minimum of 1 well volume & then wait for stabilization

Tolerance for stability:

Specific Conductance (3%)

temperature (3%)

pH +/- 0.1 units

Record DO & ORP but DO NOT use for stability

Guidelines for Field Screening Values:

pH range = 5 - 9

Temperature range = 10 - 19 (except for VERY warm days - please try to keep purge container cool/shaded area)

DO range = less than 12 (unless very close to a sparge well)

If readings are not in this range please try to recalibrate (except for temp, which cannot be calibrated). If they remain out of range, please do not write the value on the sheet - it is an equipment error

PLEASE CONTACT THE PMs IF THERE IS A PROBLEM. THIS DATA IS IMPORTANT AND INCORRECT DATA IS WORSE THAN NO DATA. WE REALLY APPRECIATE YOUR WORK TO KEEP E.A.R. A TOP COMPANY IN THE FIELD

[as of 06/05/17]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
E.A.R.	Ian Hofmann	10/3/17	274475
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
225 Atlantic Ave	(631) 447-6100	460-23672	
City Patchogue	**State** NY	**Zip Code** 11772	**Site Contact**	**Lab Contact**
Project Name and Location (State) DEC-Brooklyn 5200 (NY)	**Carrier/Waybill Number**	
Contract/Purchase Order/Quote No. ~~Spill #~~ Site # 224015		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Concrete	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260C	6020A	6029A Dissolved	8270D	8082A	8081B	4012B	MS/MSD	Special Instructions/ Conditions of Receipt
SB-38	10/3/17	1000		X				7		1	3	1		X	X	X	X	X	X	X		Category B deliverables requested
SB-37S	10/3/17	1040		X				7		1	3	1		X	X	X	X	X	X	X		
SB-37D	10/3/17	1125		X				7		1	3	1		X	X	X	X	X	X	X		
SB-36	10/3/17	1200		X				7		1	3	1		X	X	X	X	X	X	X		
CB-30PS	10/3/17	930					X	1										X			X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

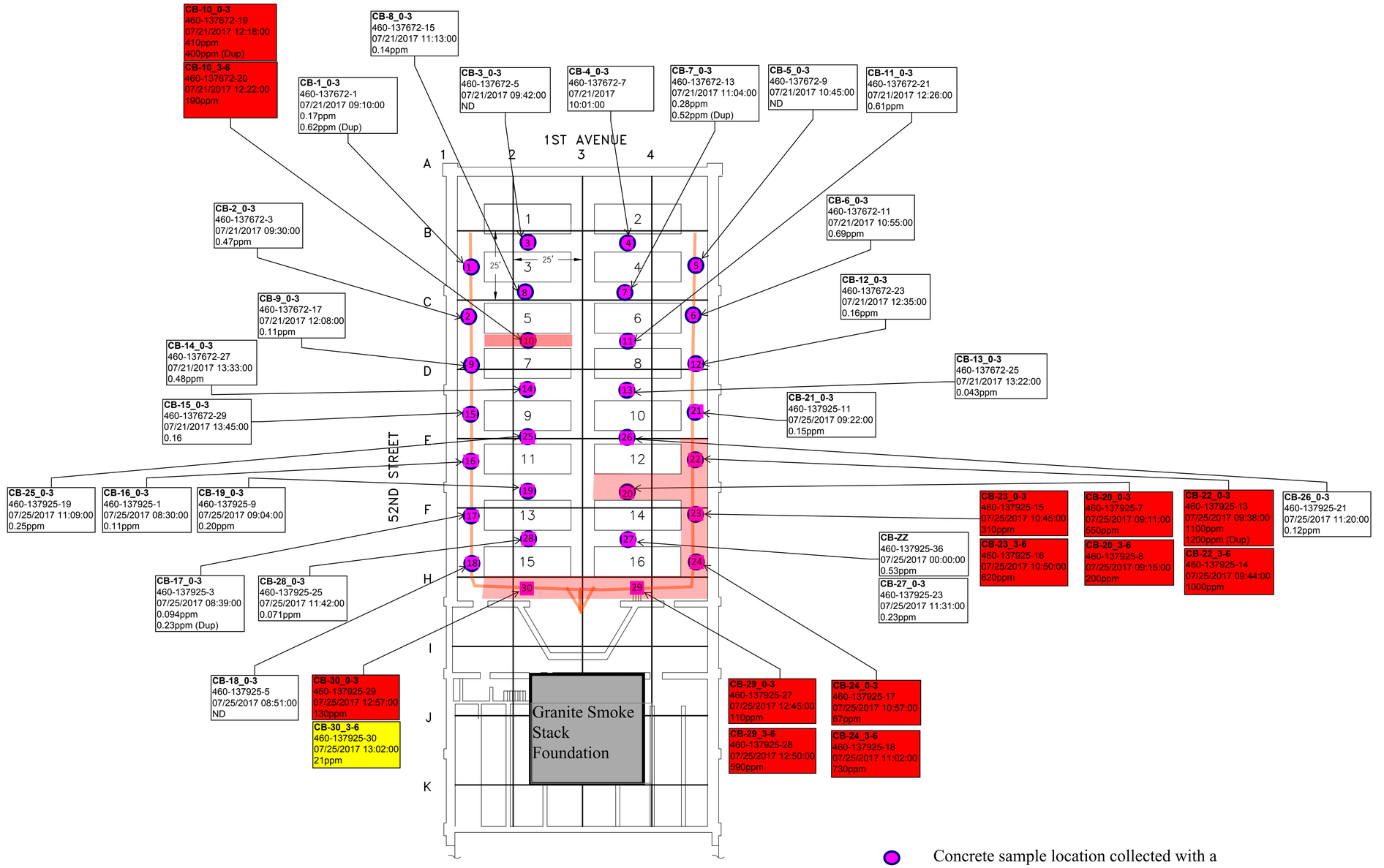
Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 72 Hr

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	10/3/17	1700	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



Department of Environmental Conservation

NEW YORK STATE OF OPPORTUNITY

NO.	DATE	DESCRIPTION
0	10/13	FOR BIDS DUE

REVISIONS

PCB CONCRETE SAMPLE LOCATIONS

PREPARED BY:
EA ENGINEERING, P.C. AND ITS AFFILIATE EA SCIENCE AND TECHNOLOGY

CARRS#	
EA #	1490706
DESIGN #	
FILE	1490706 Contract.dwg
DRAWN BY	JRM
DATE	OCTOBER 2013
SCALE	AS SHOWN
SS	

SHEET #
1

FILE PATH: P:\ENVIR & LEGAL\ENVIRO\EMPIRE ELECTRIC COMPANY\1447925\FIGURES\FROM SYRACUSE\REVISED FIGURES\SEPT 2013\PCB REMEDIATION CONFIRMATION SAMPLING\DWG [FIGURE 1].MXD(REV. JASON 3/8/2017 11:52 AM

RETAINING WALL

108.49 ft

51.88 ft

28.96 ft

SMOKE STACK FOUNDATION

36.69 ft

34.34 ft

GRANITE WALL

DIRT

BLDG WALL

4112

4111

4110

4108

4107

4106

4105

4104

4103

4102

4101

4100

4099

4098

4097

4096

4092

4091

4109

SB-35D

SB-35S

No wells installed

1 well installed to 8.5' BG

SB-36S

SB-36D

GRANITE WALL

1 well installed to 11' BG. 1 well installed to 24' BG

SB-37S

SB-37D

1 well installed to 11.5' BG

3.10 ft

SB-38S

SB-38D

17.11

APPROXIMATE EDGE OF CONCRETE

MATCH LINE SEE SHEET TSL-2

N E S W

- Soil boring with continuous sampling at 2-ft intervals to a minimum depth of 20-ft bgs. and temporary (2" dia.) PVC groundwater well screened from 18-ft to 20-ft bgs
- Temporary (2" dia.) PVC groundwater well screened from 8-ft to 10-ft bgs

LEGEND:

EXISTING ELEVATION ..... 20.96 × 20.69

TEST SAMPLE LOCATION

NOTE:

1. ALL ELEVATIONS SHOWN HEREON REFER TO THE BROOKLYN TOPOGRAPHICAL BUREAU DATUM WHICH IS 2.547 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY THE U.S. COAST AND GEODETIC SURVEY.
2. ALL SUBSURFACE UTILITIES SHOWN HEREON WERE OBTAINED FROM CITY DEPARTMENTS AND PRIVATE UTILITY COMPANIES AND THE LOCATION OF SAID UTILITIES ARE APPROXIMATE AND NOT GUARANTEED BY THE SURVEYOR. CONSULT APPROPRIATE DEPARTMENT OR COMPANY BEFORE DESIGNING ANY CONNECTIONS.
3. THERE ARE NO VISIBLE STREAMS OR NATURAL WATER COURSES ON THE PROPERTY EXCEPT AS SHOWN ON THE SURVEY.
4. PROPERTY CORNER MONUMENTS WERE NOT PLACED AS PART OF THIS SURVEY.
5. THE STATE EDUCATION LAW PROHIBITS ANY PERSON, UNLESS ACTING UNDER THE DIRECTION
6. TEST SAMPLE TABLE SEE SHEET TSL-4.

PREPARE BY:

DIMENSION DEVELOPMENT

PREPARE FOR:

P.A.L. ENVIRONMENTAL
1120 QUEENS PLAZA SO.
LONG ISLAND CITY, NY 11101

DESCRIPTION	REVISION	DATE	BY	APR

DATE: AUGUST, 2017
DRAWN BY: I.Z.
CHECKED BY: W.W.

DWG TITLE:
5200 1st AVENUE
BROOKLYN,NEW YORK
PARTIAL FOUNDATION EXCAVATION

DWG. NO. TSL-3
REV.

Appendix C: QA/QC Summary

Empire Electric
5200 1st Avenue
Brooklyn, NY
Spill # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Soil, Concrete, and Groundwater Analytical Results (ug/Kg, ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW8082A

	Location	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
Original Sample	CB-1_0-3	<73	<73	<73	<73	<73	<73	**170**	<73	<73
Blind Duplicate	CB-X	<71	<71	<71	<71	<71	<71	**620**	<71	<71
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**113.9%**	0.0%	0.0%
Original Sample	CB-29PS	<140	<140	<140	<140	<140	<140	**1,600**	<140	<140
Blind Duplicate	CB-X	<140	<140	<140	<140	<140	<140	**1,700**	<140	<140
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**6.1%**	0.0%	0.0%
Original Sample	CB-17_0-3	<71	<71	<71	<71	<71	<71	**94**	<71	<71
Blind Duplicate	CB-XX	<72	<72	<72	<72	<72	<72	**230**	<72	<72
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**84.0%**	0.0%	0.0%
Original Sample	CB-7_0-3	<71	<71	<71	<71	<71	<71	**280**	<71	<71
Blind Duplicate	CB-Y	<70	<70	<70	<70	<70	<70	**520**	<70	<70
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**60.0%**	0.0%	0.0%
Original Sample	CB-22_0-3	<70000	<70000	<70000	<70000	<70000	<70000	**1100000**	<70000	<70000
Blind Duplicate	CB-YY	<70000	<70000	<70000	<70000	<70000	<70000	**1200000**	<70000	<70000
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**8.7%**	0.0%	0.0%
Original Sample	CB-10_0-3	<38000	<38000	<38000	<38000	<38000	<38000	**410,000**	<38000	<38000
Blind Duplicate	CB-Z	<76000	<76000	<76000	<76000	<76000	<76000	**400,000**	<76000	<76000
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**2.5%**	0.0%	0.0%
Original Sample	CB-27_0-3	<71	<71	<71	<71	<71	<71	**230**	<71	<71
Blind Duplicate	CB-ZZ	<71	<71	<71	<71	<71	<71	**530**	<71	<71
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**78.9%**	0.0%	0.0%
Original Sample	SB-2_1-2	<160	<160	<160	<160	<160	<160	**2,000**	<160	<160
Blind Duplicate	SB-X	<160	<160	<160	<160	<160	<160	**2,900**	<160	<160
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**36.7%**	0.0%	0.0%
Original Sample	SB-15_1-2	<790000	<790000	<790000	<790000	<790000	<790000	**12000000**	<790000	<790000
Blind Duplicate	SB-XX	<780000	<780000	<780000	<780000	<780000	<780000	**15000000**	<780000	<780000
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**22.2%**	0.0%	0.0%
Original Sample	SB-33_1-2	<850	<850	<850	<850	<850	<850	**12,000**	<850	<850
Blind Duplicate	SB-XXX	<150	<150	<150	<150	<150	<150	**2,100**	<150	<150
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**140.4%**	0.0%	0.0%
Original Sample	SB-9_1-2	<71	<71	<71	<71	<71	<71	**1,500**	<71	<71
Blind Duplicate	SB-Y	<72	<72	<72	<72	<72	<72	**170**	<72	<72
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**159.3%**	0.0%	0.0%
Original Sample	SB-14_1-2	<15000	<15000	<15000	<15000	<15000	<15000	**99,000**	<15000	<15000
Blind Duplicate	SB-YY	<7400	<7400	<7400	<7400	<7400	<7400	**140,000**	<7400	<7400
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**34.3%**	0.0%	0.0%
Original Sample	SB-12_0-1	<20000	<20000	<20000	<20000	<20000	<20000	**340,000**	<20000	<20000
Blind Duplicate	SB-Z	<200000	<200000	<200000	<200000	<200000	<200000	**1100000**	<200000	<200000
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**105.6%**	0.0%	0.0%
Original Sample	SB-19_1-2	<74	<74	<74	<74	<74	<74	**1,100**	<74	<74
Blind Duplicate	SB-ZZ	<73	<73	<73	<73	<73	<73	**430**	<73	<73
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**87.6%**	0.0%	0.0%
Original Sample	SB-15_GW*	<2	<2	<2	<2	<2	<2	**1.4 J**	<2	<2
Blind Duplicate	SB-X*	<4	<4	<4	<4	<4	<4	**5.7**	<4	<4
Relative Percent Difference		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**n/a**	0.0%	0.0%

Notes:
*** - Indicates an aqueous sample**
n/a - Not applicable due to estimated value

Empire Electric
5200 1st Avenue
Brooklyn, NY
Spill # 224015

Soil and Groundwater Analytical Results (ug/Kg, ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW8260C

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

	Original Sample	Blind Duplicate		Original Sample	Blind Duplicate		Original Sample	Blind Duplicate	
Location	SB-13_4-5	SB-X	Relative Percent Difference	MW-02*	MW-X*	Relative Percent Difference	MW-05R*	MW-X*	Relative Percent Difference
Date Collected	7/26/2017	7/26/2017		7/27/2017	7/27/2017		10/2/2017	10/2/2017	
Time Collected	11:25 AM	12:00 AM		8:08 AM	12:00 AM		10:50 AM	12:00 AM	
Matrix	Soil	Soil		Water	Water		Water	Water	
1,1 Dichloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,1 Dichloroethene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,1,1 Trichloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,1,2 Trichloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,1,2,2 Tetrachloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,2 Dibromoethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,2 Dichlorobenzene	**390 J**	**710 J**	n/a	<1	<1	0.0%	**38**	**42**	**10.0%**
1,2 Dichloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,2 Dichloropropane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,2,3 Trichlorobenzene	**29,000**	**43,000**	**38.9%**	<1	<1	0.0%	**1,400**	**1,400**	**0.0%**
1,2,4 Trichlorobenzene	**120,000**	**170,000**	**34.5%**	<1	<1	0.0%	**5,500**	**5,300**	**3.7%**
1,3 Dichlorobenzene	**210 J**	**710 J**	n/a	<1	<1	0.0%	**89**	**89**	**0.0%**
1,4 Dichlorobenzene	**890**	**1,800**	**67.7%**	<1	<1	0.0%	**140**	**160**	**13.3%**
1,4-Dioxane	<24000	<42000	0.0%	<0.4	<0.4	0.0%	<1300	<1300	0.0%
2-Hexanone	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
4-Methyl-2-Pentanone	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
Acetone	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
Benzene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Bromochloromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Bromodichloromethane	<480	<850	0.0%	**0.19 J**	**0.20 J**	n/a	<25	<25	0.0%
Bromoform	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Bromomethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
c 1,3 Dichloropropene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Carbon Disulfide	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Carbon Tetrachloride	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Chlorobenzene	<480	<850	0.0%	<1	<1	0.0%	**8.40 J**	**8.50 J**	n/a
Chloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Chloroform	<480	<850	0.0%	**3.6**	**3.6**	**0.0%**	<25	<25	0.0%
Chloromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
cis-1,2-Dichloroethene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Cyclohexane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Cyclohexane, methyl-	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Dibromochloromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Dibromochloropropane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Dichlorodifluoromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Ethylbenzene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Freon 113	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Isopropylbenzene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
m + p Xylene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Methyl acetate	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
Methyl Ethyl Ketone	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
Methylene Chloride	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
o-Xylene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Styrene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
t 1,3 Dichloropropene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
t butylmethylether	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Tetrachloroethene	<480	<850	0.0%	**6.9**	**7**	**1.4%**	<25	<25	0.0%
Toluene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Total BTEX	<2400	<4250	0.0%	<5	<5	0.0%	<125	<125	0.0%
trans-1,2-Dichloroethene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%

Empire Electric
5200 1st Avenue
Brooklyn, NY
Spill # 224015

Soil and Groundwater Analytical Results (ug/Kg, ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW8260C

	Original Sample	Blind Duplicate		Original Sample	Blind Duplicate		Original Sample	Blind Duplicate	
Location	SB-13_4-5	SB-X	Relative Percent Difference	MW-02*	MW-X*	Relative Percent Difference	MW-05R*	MW-X*	Relative Percent Difference
Date Collected	7/26/2017	7/26/2017		7/27/2017	7/27/2017		10/2/2017	10/2/2017	
Time Collected	11:25 AM	12:00 AM		8:08 AM	12:00 AM		10:50 AM	12:00 AM	
Matrix	Soil	Soil		Water	Water		Water	Water	
Trichloroethylene	<480	<850	0.0%	**0.71 J**	**0.80 J**	n/a	<25	<25	0.0%
Trichlorofluoromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Vinyl Chloride	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%

Notes:
* - Indicates an aqueous sample
n/a - Not applicable due to estimated value
TICs not included in RPD analysis

Empire Electric
5200 1st Avenue
Brooklyn, NY
Spill # 224015

Groundwater Analytical Results (ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW8270D

	Original Sample	Blind Duplicate	Relative Percent Difference	Original Sample	Blind Duplicate	Relative Percent Difference
Location	MW-02	MW-X		MW-05R	MW-X	
Date Collected	7/27/2017	7/27/2017		10/2/2017	10/2/2017	
Time Collected	8:08 AM	12:00 AM		10:50 AM	12:00 AM	
Matrix	Water	Water		Water	Water	
1,1-Biphenyl	<10	<10	0.0%	<10	<10	0.0%
1,2,4,5-Tetrachlorobenzene	<10	<10	0.0%	**24**	**24**	**0.0%**
2,3,4,6-Tetrachlorophenol	<10	<10	0.0%	<10	<10	0.0%
2,4,5-Trichlorophenol	<10	<10	0.0%	**1.80 J**	**1.60 J**	n/a
2,4,6-Trichlorophenol	<10	<10	0.0%	<10	<10	0.0%
2,4-Dichlorophenol	<10	<10	0.0%	<10	<10	0.0%
2,4-Dimethylphenol	<10	<10	0.0%	<10	<10	0.0%
2,4-Dinitrophenol	<21	<20	0.0%	<21	<21	0.0%
2,4-Dinitrotoluene	<2.1	<2	0.0%	<2.1	<2.1	0.0%
2,6-Dinitrotoluene	<2.1	<2	0.0%	<2.1	<2.1	0.0%
2-Chloronaphthalene	<10	<10	0.0%	<10	<10	0.0%
2-Chlorophenol	<10	<10	0.0%	<10	<10	0.0%
2-Methyl-4,6-dinitrophenol	<21	<20	0.0%	<21	<21	0.0%
2-Methylnaphthalene	<10	<10	0.0%	<10	<10	0.0%
2-Nitroaniline	<10	<10	0.0%	<10	<10	0.0%
2-Nitrophenol	<10	<10	0.0%	<10	<10	0.0%
3,3-Dichlorobenzidine	<10	<10	0.0%	<10	<10	0.0%
3-Nitroaniline	<10	<10	0.0%	<10	<10	0.0%
4-Bromophenyl-phenylether	<10	<10	0.0%	<10	<10	0.0%
4-Chloro-3-methylphenol	<10	<10	0.0%	<10	<10	0.0%
4-Chloroaniline	<10	<10	0.0%	<10	<10	0.0%
4-Chlorophenyl-phenylether	<10	<10	0.0%	<10	<10	0.0%
4-Nitroaniline	<10	<10	0.0%	<10	<10	0.0%
4-Nitrophenol	<21	<20	0.0%	<21	<21	0.0%
Acenaphthene	<10	<10	0.0%	<10	<10	0.0%
Acenaphthylene	<10	<10	0.0%	<10	<10	0.0%
Acetophenone	<10	<10	0.0%	<10	<10	0.0%
Anthracene	<10	<10	0.0%	<10	<10	0.0%
Atrazine	<2.1	<2	0.0%	<2.1	<2.1	0.0%
Benzaldehyde	<10	<10	0.0%	<10	<10	0.0%
Benzo(a)anthracene	<1	<1	0.0%	<1	<1	0.0%
Benzo(a)pyrene	<1	<1	0.0%	<1	<1	0.0%
Benzo(b)fluoranthene	<1	<1	0.0%	<1	<1	0.0%
Benzo(g,h,i)perylene	<10	<10	0.0%	<10	<10	0.0%
Benzo(k)fluoranthene	<1	<1	0.0%	<1	<1	0.0%
bis(2-Chloroethoxy)methane	<10	<10	0.0%	<10	<10	0.0%
bis(2-Chloroethyl)ether	<1	<1	0.0%	<1	<1	0.0%
bis(2-Chloroisopropyl)ether	<10	<10	0.0%	<10	<10	0.0%
bis(2-Ethylhexyl)phthalate	<2.1	<2	0.0%	**1.30 J**	**1.30 J**	n/a
Butylbenzylphthalate	<10	<10	0.0%	<10	<10	0.0%
Caprolactam	<10	<10	0.0%	<10	<10	0.0%
Carbazole	<10	<10	0.0%	<10	<10	0.0%
Chrysene	<2.1	<2	0.0%	<2.1	<2.1	0.0%

Empire Electric
5200 1st Avenue
Brooklyn, NY
Spill # 224015

Groundwater Analytical Results (ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW8270D

	Original Sample	Blind Duplicate	Relative Percent Difference	Original Sample	Blind Duplicate	Relative Percent Difference
Location	MW-02	MW-X		MW-05R	MW-X	
Date Collected	7/27/2017	7/27/2017		10/2/2017	10/2/2017	
Time Collected	8:08 AM	12:00 AM		10:50 AM	12:00 AM	
Matrix	Water	Water		Water	Water	
Dibenzo(a,h)anthracene	<1	<1	0.0%	<1	<1	0.0%
Dibenzofuran	<10	<10	0.0%	<10	<10	0.0%
Diethylphthalate	<10	<10	0.0%	<10	<10	0.0%
Dimethylphthalate	<10	<10	0.0%	<10	<10	0.0%
Di-n-butylphthalate	<10	<10	0.0%	<10	<10	0.0%
Di-n-octylphthalate	<10	<10	0.0%	<10	<10	0.0%
Fluoranthene	<10	<10	0.0%	<10	<10	0.0%
Fluorene	<10	<10	0.0%	<10	<10	0.0%
Hexachlorobenzene	<1	<1	0.0%	<1	<1	0.0%
Hexachlorobutadiene	<1	<1	0.0%	<1	<1	0.0%
Hexachlorocyclopentadiene	<10	<10	0.0%	<10	<10	0.0%
Hexachloroethane	<1	<1	0.0%	<1	<1	0.0%
Indeno(1,2,3-cd)pyrene	<1	<1	0.0%	<1	<1	0.0%
Isophorone	<10	<10	0.0%	<10	<10	0.0%
Naphthalene	<10	<10	0.0%	<10	<10	0.0%
Nitrobenzene	<1	<1	0.0%	<1	<1	0.0%
N-Nitrosodi-N-Propylamine	<1	<1	0.0%	<1	<1	0.0%
N-Nitrosodiphenylamine	<10	<10	0.0%	<10	<10	0.0%
o-cresol	<10	<10	0.0%	<10	<10	0.0%
p-cresol	<10	<10	0.0%	<10	<10	0.0%
Pentachlorophenol	<21	<20	0.0%	<21	<21	0.0%
Phenanthrene	<10	<10	0.0%	<10	<10	0.0%
Phenol (total)	<10	<10	0.0%	<10	<10	0.0%
Pyrene	<10	<10	0.0%	<10	<10	0.0%

Notes:
n/a - Not applicable due to estimated value
TICs not included in RPD analysis

Empire Electric
5200 1st Avenue
Brooklyn, NY
Spill # 224015

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Groundwater Analytical Results (ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW6020A, SW7470A

	Original Sample	Blind Duplicate		Original Sample	Blind Duplicate		Original Sample	Blind Duplicate	
Location	MW-02	MW-X	Relative Percent Difference	MW-05R	MW-X	Relative Percent Difference	SB-15_GW	SB-X	Relative Percent Difference
Date Collected	7/27/2017	7/27/2017		10/2/2017	10/2/2017		8/9/2017	8/9/2017	
Time Collected	8:08 AM	12:00 AM		10:50 AM	12:00 AM		10:40 AM	12:00 AM	
Matrix	Water	Water		Water	Water		Water	Water	
Aluminum	73.4	65.5	11.4%	130	140	7.4%	<40	<40	0.0%
Antimony	1 J	0.90 J	n/a	0.64 J	0.81 J	n/a	<2	<2	0.0%
Arsenic	<2	<2	0.0%	<2	1 J	n/a	5.4	7	25.8%
Barium	128	122	4.8%	89	92.8	4.2%	140	142	1.4%
Beryllium	<0.8	<0.8	0.0%	<0.8	<0.8	0.0%	<0.8	<0.8	0.0%
Cadmium	<2	<2	0.0%	<2	<2	0.0%	<2	<2	0.0%
Calcium	59,100	56,200	5.0%	65,000	65,900	1.4%	46,800	49,900	6.4%
Chromium (total)	9.7	9.4	3.1%	<4	<4	0.0%	<4	<4	0.0%
Cobalt	<4	<4	0.0%	<4	<4	0.0%	<4	<4	0.0%
Copper	2 J	1.70 J	n/a	<4	<4	0.0%	1.50 J	<4	n/a
Iron	135	97.90 J	n/a	188	204	8.2%	44.80 J	131	n/a
Lead	<1.2	<1.2	0.0%	<1.2	<1.2	0.0%	<1.2	<1.2	0.0%
Magnesium	7,340	7,060	3.9%	10,500	10,500	0.0%	9,380	10,200	8.4%
Manganese	13.6	4.90 J	n/a	2,480	2,470	0.4%	575	656	13.2%
Mercury	<0.2	<0.2	0.0%	<0.2	<0.2	0.0%	<0.2	<0.2	0.0%
Nickel	<4	<4	0.0%	2.50 J	2.30 J	n/a	<4	<4	0.0%
Potassium	8,020	7,600	5.4%	12,400	12,400	0.0%	22,300	24,000	7.3%
Selenium	<10	<10	0.0%	<10	<10	0.0%	1.20 J	1.50 J	n/a
Silver	<2	<2	0.0%	<2	<2	0.0%	<2	<2	0.0%
Sodium	1060000	1030000	2.9%	202,000	203,000	0.5%	30,700	32,500	5.7%
Thallium	<0.8	<0.8	0.0%	<0.8	<0.8	0.0%	<0.8	<0.8	0.0%
Vanadium	<4	<4	0.0%	<4	<4	0.0%	9.2	12.7	32.0%
Zinc	<16	<16	0.0%	<16	<16	0.0%	<16	<16	0.0%

Notes:
Analytical results for samples collected 8/9/17 are for dissolved metals.
n/a - Not applicable due to estimated value(s)

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Rinsate Blank Sample Analytical Summary (ug/L)
TestAmerica, Inc.
Methods: SW8082A

Location	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK
Date Collected	7/6/2017	7/7/2017	7/10/2017	7/21/2017	7/25/2017	8/9/2017	9/21/2017	9/28/2017
Time Collected	8:30 AM	8:30 AM	8:00 AM	8:30 AM	8:00 AM	9:00 AM	8:00 AM	8:00 AM
Aroclor 1016	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1221	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1232	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1242	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1248	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1254	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1260	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1262	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1268	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Polybrominated biphenyls (total)	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4

Rinsate Blank Sample Analytical Summary (ng/L)
TestAmerica, Inc.
Methods: E537-LL

Location	RINSE BLANK
Date Collected	7/24/2017
Time Collected	1:40 PM
Perfluorobutanesulfonic acid (PFBS)	<2
Perfluoroheptanoic acid (PFHpA)	<2
Perfluorohexanesulfonic acid (PFHxS)	<2
perfluorononanoic acid (PFNA)	<2
perfluorooctanesulfonic acid (PFOS)	<2
perfluorooctanoic acid (PFOA)	<2

Empire Electric
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Brooklyn, NY
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Rinsate Blank Sample Analytical Summary
(ug/L)
TestAmerica, Inc.
Methods: SW8260C

Location	RINSE BLANK
Date Collected	7/24/2017
Time Collected	1:40 PM
1,1 Dichloroethane	<1
1,1 Dichloroethene	<1
1,1,1 Trichloroethane	<1
1,1,2 Trichloroethane	<1
1,1,2,2 Tetrachloroethane	<1
1,2 Dibromoethane	<1
1,2 Dichlorobenzene	<1
1,2 Dichloroethane	<1
1,2 Dichloropropane	<1
1,2,3 Trichlorobenzene	<1
1,2,4 Trichlorobenzene	<1
1,3 Dichlorobenzene	<1
1,4 Dichlorobenzene	<1
1,4-Dioxane	<50
2-Hexanone	<5
4-Methyl-2-Pentanone	<5
Acetone	<5
Benzene	0.29 J
Bromochloromethane	<1
Bromodichloromethane	<1
Bromoform	<1
Bromomethane	<1
c 1,3 Dichloropropene	<1
Carbon Disulfide	<1
Carbon Tetrachloride	<1
Chlorobenzene	<1
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
cis-1,2-Dichloroethene	<1
Cyclohexane	<1
Cyclohexane, methyl-	<1

Empire Electric
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Rinsate Blank Sample Analytical Summary (ug/L)
TestAmerica, Inc.
Methods: SW8260C

Location	RINSE BLANK
Date Collected	7/24/2017
Time Collected	1:40 PM
Dibromochloromethane	<1
Dibromochloropropane	<1
Dichlorodifluoromethane	<1
Ethylbenzene	0.55 J
Freon 113	<1
Isopropylbenzene	<1
m + p Xylene	1.7
Methyl acetate	<5
Methyl Ethyl Ketone	<5
Methylene Chloride	<1
o-Xylene	0.51 J
Styrene	<1
t 1,3 Dichloropropene	<1
t butylmethylether	<1
Tetrachloroethene	<1
Toluene	3
Total BTEX	6
trans-1,2-Dichloroethene	<1
Trichloroethylene	<1
Trichlorofluoromethane	<1
Vinyl Chloride	<1

Notes:
J - Indicates an estimated value below laboratory reporting limits.

Empire Electric
5200 1st Avenue
Brooklyn, NY
Spill # 224015

Soil and Groundwater Analytical Results (ug/Kg, ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW8260C

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

	Original Sample	Blind Duplicate		Original Sample	Blind Duplicate		Original Sample	Blind Duplicate	
Location	SB-13_4-5	SB-X	Relative Percent Difference	MW-02*	MW-X*	Relative Percent Difference	MW-05R*	MW-X*	Relative Percent Difference
Date Collected	7/26/2017	7/26/2017		7/27/2017	7/27/2017		10/2/2017	10/2/2017	
Time Collected	11:25 AM	12:00 AM		8:08 AM	12:00 AM		10:50 AM	12:00 AM	
Matrix	Soil	Soil		Water	Water		Water	Water	
1,1 Dichloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,1 Dichloroethene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,1,1 Trichloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,1,2 Trichloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,1,2,2 Tetrachloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,2 Dibromoethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,2 Dichlorobenzene	**390 J**	**710 J**	n/a	<1	<1	0.0%	**38**	**42**	**10.0%**
1,2 Dichloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,2 Dichloropropane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
1,2,3 Trichlorobenzene	**29,000**	**43,000**	**38.9%**	<1	<1	0.0%	**1,400**	**1,400**	**0.0%**
1,2,4 Trichlorobenzene	**120,000**	**170,000**	**34.5%**	<1	<1	0.0%	**5,500**	**5,300**	**3.7%**
1,3 Dichlorobenzene	**210 J**	**710 J**	n/a	<1	<1	0.0%	**89**	**89**	**0.0%**
1,4 Dichlorobenzene	**890**	**1,800**	**67.7%**	<1	<1	0.0%	**140**	**160**	**13.3%**
1,4-Dioxane	<24000	<42000	0.0%	<0.4	<0.4	0.0%	<1300	<1300	0.0%
2-Hexanone	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
4-Methyl-2-Pentanone	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
Acetone	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
Benzene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Bromochloromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Bromodichloromethane	<480	<850	0.0%	**0.19 J**	**0.20 J**	n/a	<25	<25	0.0%
Bromoform	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Bromomethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
c 1,3 Dichloropropene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Carbon Disulfide	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Carbon Tetrachloride	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Chlorobenzene	<480	<850	0.0%	<1	<1	0.0%	**8.40 J**	**8.50 J**	n/a
Chloroethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Chloroform	<480	<850	0.0%	**3.6**	**3.6**	**0.0%**	<25	<25	0.0%
Chloromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
cis-1,2-Dichloroethene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Cyclohexane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Cyclohexane, methyl-	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Dibromochloromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Dibromochloropropane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Dichlorodifluoromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Ethylbenzene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Freon 113	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Isopropylbenzene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
m + p Xylene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Methyl acetate	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
Methyl Ethyl Ketone	<2400	<4200	0.0%	<5	<5	0.0%	<130	<130	0.0%
Methylene Chloride	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
o-Xylene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Styrene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
t 1,3 Dichloropropene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
t butylmethylether	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Tetrachloroethene	<480	<850	0.0%	**6.9**	**7**	**1.4%**	<25	<25	0.0%
Toluene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Total BTEX	<2400	<4250	0.0%	<5	<5	0.0%	<125	<125	0.0%
trans-1,2-Dichloroethene	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%

Empire Electric
5200 1st Avenue
Brooklyn, NY
Spill # 224015

Soil and Groundwater Analytical Results (ug/Kg, ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW8260C

	Original Sample	Blind Duplicate		Original Sample	Blind Duplicate		Original Sample	Blind Duplicate	
Location	SB-13_4-5	SB-X	Relative Percent Difference	MW-02*	MW-X*	Relative Percent Difference	MW-05R*	MW-X*	Relative Percent Difference
Date Collected	7/26/2017	7/26/2017		7/27/2017	7/27/2017		10/2/2017	10/2/2017	
Time Collected	11:25 AM	12:00 AM		8:08 AM	12:00 AM		10:50 AM	12:00 AM	
Matrix	Soil	Soil		Water	Water		Water	Water	
Trichloroethylene	<480	<850	0.0%	**0.71 J**	**0.80 J**	n/a	<25	<25	0.0%
Trichlorofluoromethane	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%
Vinyl Chloride	<480	<850	0.0%	<1	<1	0.0%	<25	<25	0.0%

Notes:
* - Indicates an aqueous sample
n/a - Not applicable due to estimated value
TICs not included in RPD analysis

Empire Electric
5200 1st Avenue
Brooklyn, NY
Spill # 224015

Groundwater Analytical Results (ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW8270D

	Original Sample	Blind Duplicate	Relative Percent Difference	Original Sample	Blind Duplicate	Relative Percent Difference
Location	MW-02	MW-X		MW-05R	MW-X	
Date Collected	7/27/2017	7/27/2017		10/2/2017	10/2/2017	
Time Collected	8:08 AM	12:00 AM		10:50 AM	12:00 AM	
Matrix	Water	Water		Water	Water	
1,1-Biphenyl	<10	<10	0.0%	<10	<10	0.0%
1,2,4,5-Tetrachlorobenzene	<10	<10	0.0%	**24**	**24**	**0.0%**
2,3,4,6-Tetrachlorophenol	<10	<10	0.0%	<10	<10	0.0%
2,4,5-Trichlorophenol	<10	<10	0.0%	**1.80 J**	**1.60 J**	n/a
2,4,6-Trichlorophenol	<10	<10	0.0%	<10	<10	0.0%
2,4-Dichlorophenol	<10	<10	0.0%	<10	<10	0.0%
2,4-Dimethylphenol	<10	<10	0.0%	<10	<10	0.0%
2,4-Dinitrophenol	<21	<20	0.0%	<21	<21	0.0%
2,4-Dinitrotoluene	<2.1	<2	0.0%	<2.1	<2.1	0.0%
2,6-Dinitrotoluene	<2.1	<2	0.0%	<2.1	<2.1	0.0%
2-Chloronaphthalene	<10	<10	0.0%	<10	<10	0.0%
2-Chlorophenol	<10	<10	0.0%	<10	<10	0.0%
2-Methyl-4,6-dinitrophenol	<21	<20	0.0%	<21	<21	0.0%
2-Methylnaphthalene	<10	<10	0.0%	<10	<10	0.0%
2-Nitroaniline	<10	<10	0.0%	<10	<10	0.0%
2-Nitrophenol	<10	<10	0.0%	<10	<10	0.0%
3,3-Dichlorobenzidine	<10	<10	0.0%	<10	<10	0.0%
3-Nitroaniline	<10	<10	0.0%	<10	<10	0.0%
4-Bromophenyl-phenylether	<10	<10	0.0%	<10	<10	0.0%
4-Chloro-3-methylphenol	<10	<10	0.0%	<10	<10	0.0%
4-Chloroaniline	<10	<10	0.0%	<10	<10	0.0%
4-Chlorophenyl-phenylether	<10	<10	0.0%	<10	<10	0.0%
4-Nitroaniline	<10	<10	0.0%	<10	<10	0.0%
4-Nitrophenol	<21	<20	0.0%	<21	<21	0.0%
Acenaphthene	<10	<10	0.0%	<10	<10	0.0%
Acenaphthylene	<10	<10	0.0%	<10	<10	0.0%
Acetophenone	<10	<10	0.0%	<10	<10	0.0%
Anthracene	<10	<10	0.0%	<10	<10	0.0%
Atrazine	<2.1	<2	0.0%	<2.1	<2.1	0.0%
Benzaldehyde	<10	<10	0.0%	<10	<10	0.0%
Benzo(a)anthracene	<1	<1	0.0%	<1	<1	0.0%
Benzo(a)pyrene	<1	<1	0.0%	<1	<1	0.0%
Benzo(b)fluoranthene	<1	<1	0.0%	<1	<1	0.0%
Benzo(g,h,i)perylene	<10	<10	0.0%	<10	<10	0.0%
Benzo(k)fluoranthene	<1	<1	0.0%	<1	<1	0.0%
bis(2-Chloroethoxy)methane	<10	<10	0.0%	<10	<10	0.0%
bis(2-Chloroethyl)ether	<1	<1	0.0%	<1	<1	0.0%
bis(2-Chloroisopropyl)ether	<10	<10	0.0%	<10	<10	0.0%
bis(2-Ethylhexyl)phthalate	<2.1	<2	0.0%	**1.30 J**	**1.30 J**	n/a
Butylbenzylphthalate	<10	<10	0.0%	<10	<10	0.0%
Caprolactam	<10	<10	0.0%	<10	<10	0.0%
Carbazole	<10	<10	0.0%	<10	<10	0.0%
Chrysene	<2.1	<2	0.0%	<2.1	<2.1	0.0%

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Groundwater Analytical Results (ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW8270D

	Original Sample	Blind Duplicate	Relative Percent Difference	Original Sample	Blind Duplicate	Relative Percent Difference
Location	MW-02	MW-X		MW-05R	MW-X	
Date Collected	7/27/2017	7/27/2017		10/2/2017	10/2/2017	
Time Collected	8:08 AM	12:00 AM		10:50 AM	12:00 AM	
Matrix	Water	Water		Water	Water	
Dibenzo(a,h)anthracene	<1	<1	0.0%	<1	<1	0.0%
Dibenzofuran	<10	<10	0.0%	<10	<10	0.0%
Diethylphthalate	<10	<10	0.0%	<10	<10	0.0%
Dimethylphthalate	<10	<10	0.0%	<10	<10	0.0%
Di-n-butylphthalate	<10	<10	0.0%	<10	<10	0.0%
Di-n-octylphthalate	<10	<10	0.0%	<10	<10	0.0%
Fluoranthene	<10	<10	0.0%	<10	<10	0.0%
Fluorene	<10	<10	0.0%	<10	<10	0.0%
Hexachlorobenzene	<1	<1	0.0%	<1	<1	0.0%
Hexachlorobutadiene	<1	<1	0.0%	<1	<1	0.0%
Hexachlorocyclopentadiene	<10	<10	0.0%	<10	<10	0.0%
Hexachloroethane	<1	<1	0.0%	<1	<1	0.0%
Indeno(1,2,3-cd)pyrene	<1	<1	0.0%	<1	<1	0.0%
Isophorone	<10	<10	0.0%	<10	<10	0.0%
Naphthalene	<10	<10	0.0%	<10	<10	0.0%
Nitrobenzene	<1	<1	0.0%	<1	<1	0.0%
N-Nitrosodi-N-Propylamine	<1	<1	0.0%	<1	<1	0.0%
N-Nitrosodiphenylamine	<10	<10	0.0%	<10	<10	0.0%
o-cresol	<10	<10	0.0%	<10	<10	0.0%
p-cresol	<10	<10	0.0%	<10	<10	0.0%
Pentachlorophenol	<21	<20	0.0%	<21	<21	0.0%
Phenanthrene	<10	<10	0.0%	<10	<10	0.0%
Phenol (total)	<10	<10	0.0%	<10	<10	0.0%
Pyrene	<10	<10	0.0%	<10	<10	0.0%

Notes:
n/a - Not applicable due to estimated value
TICs not included in RPD analysis

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Groundwater Analytical Results (ug/L)
Relative Percent Difference Analysis of Blind Duplicate Samples
TestAmerica, Inc.
Methods: SW6020A, SW7470A

	Original Sample	Blind Duplicate		Original Sample	Blind Duplicate		Original Sample	Blind Duplicate	
Location	MW-02	MW-X	Relative Percent Difference	MW-05R	MW-X	Relative Percent Difference	SB-15_GW	SB-X	Relative Percent Difference
Date Collected	7/27/2017	7/27/2017		10/2/2017	10/2/2017		8/9/2017	8/9/2017	
Time Collected	8:08 AM	12:00 AM		10:50 AM	12:00 AM		10:40 AM	12:00 AM	
Matrix	Water	Water		Water	Water		Water	Water	
Aluminum	73.4	65.5	11.4%	130	140	7.4%	<40	<40	0.0%
Antimony	1 J	0.90 J	n/a	0.64 J	0.81 J	n/a	<2	<2	0.0%
Arsenic	<2	<2	0.0%	<2	1 J	n/a	5.4	7	25.8%
Barium	128	122	4.8%	89	92.8	4.2%	140	142	1.4%
Beryllium	<0.8	<0.8	0.0%	<0.8	<0.8	0.0%	<0.8	<0.8	0.0%
Cadmium	<2	<2	0.0%	<2	<2	0.0%	<2	<2	0.0%
Calcium	59,100	56,200	5.0%	65,000	65,900	1.4%	46,800	49,900	6.4%
Chromium (total)	9.7	9.4	3.1%	<4	<4	0.0%	<4	<4	0.0%
Cobalt	<4	<4	0.0%	<4	<4	0.0%	<4	<4	0.0%
Copper	2 J	1.70 J	n/a	<4	<4	0.0%	1.50 J	<4	n/a
Iron	135	97.90 J	n/a	188	204	8.2%	44.80 J	131	n/a
Lead	<1.2	<1.2	0.0%	<1.2	<1.2	0.0%	<1.2	<1.2	0.0%
Magnesium	7,340	7,060	3.9%	10,500	10,500	0.0%	9,380	10,200	8.4%
Manganese	13.6	4.90 J	n/a	2,480	2,470	0.4%	575	656	13.2%
Mercury	<0.2	<0.2	0.0%	<0.2	<0.2	0.0%	<0.2	<0.2	0.0%
Nickel	<4	<4	0.0%	2.50 J	2.30 J	n/a	<4	<4	0.0%
Potassium	8,020	7,600	5.4%	12,400	12,400	0.0%	22,300	24,000	7.3%
Selenium	<10	<10	0.0%	<10	<10	0.0%	1.20 J	1.50 J	n/a
Silver	<2	<2	0.0%	<2	<2	0.0%	<2	<2	0.0%
Sodium	1060000	1030000	2.9%	202,000	203,000	0.5%	30,700	32,500	5.7%
Thallium	<0.8	<0.8	0.0%	<0.8	<0.8	0.0%	<0.8	<0.8	0.0%
Vanadium	<4	<4	0.0%	<4	<4	0.0%	9.2	12.7	32.0%
Zinc	<16	<16	0.0%	<16	<16	0.0%	<16	<16	0.0%

Notes:
Analytical results for samples collected 8/9/17 are for dissolved metals.
n/a - Not applicable due to estimated value(s)

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Rinsate Blank Sample Analytical Summary (ug/L)
TestAmerica, Inc.
Methods: SW8082A

Location	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK	RINSE BLANK
Date Collected	7/6/2017	7/7/2017	7/10/2017	7/21/2017	7/25/2017	8/9/2017	9/21/2017	9/28/2017
Time Collected	8:30 AM	8:30 AM	8:00 AM	8:30 AM	8:00 AM	9:00 AM	8:00 AM	8:00 AM
Aroclor 1016	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1221	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1232	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1242	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1248	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1254	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1260	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1262	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Aroclor 1268	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4
Polybrominated biphenyls (total)	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.41	<0.4

Rinsate Blank Sample Analytical Summary (ng/L)
TestAmerica, Inc.
Methods: E537-LL

Location	RINSE BLANK
Date Collected	7/24/2017
Time Collected	1:40 PM
Perfluorobutanesulfonic acid (PFBS)	<2
Perfluoroheptanoic acid (PFHpA)	<2
Perfluorohexanesulfonic acid (PFHxS)	<2
perfluorononanoic acid (PFNA)	<2
perfluorooctanesulfonic acid (PFOS)	<2
perfluorooctanoic acid (PFOA)	<2

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Rinsate Blank Sample Analytical Summary
(ug/L)
TestAmerica, Inc.
Methods: SW8260C

Location	RINSE BLANK
Date Collected	7/24/2017
Time Collected	1:40 PM
1,1 Dichloroethane	<1
1,1 Dichloroethene	<1
1,1,1 Trichloroethane	<1
1,1,2 Trichloroethane	<1
1,1,2,2 Tetrachloroethane	<1
1,2 Dibromoethane	<1
1,2 Dichlorobenzene	<1
1,2 Dichloroethane	<1
1,2 Dichloropropane	<1
1,2,3 Trichlorobenzene	<1
1,2,4 Trichlorobenzene	<1
1,3 Dichlorobenzene	<1
1,4 Dichlorobenzene	<1
1,4-Dioxane	<50
2-Hexanone	<5
4-Methyl-2-Pentanone	<5
Acetone	<5
Benzene	0.29 J
Bromochloromethane	<1
Bromodichloromethane	<1
Bromoform	<1
Bromomethane	<1
c 1,3 Dichloropropene	<1
Carbon Disulfide	<1
Carbon Tetrachloride	<1
Chlorobenzene	<1
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
cis-1,2-Dichloroethene	<1
Cyclohexane	<1
Cyclohexane, methyl-	<1

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Rinsate Blank Sample Analytical Summary (ug/L)
TestAmerica, Inc.
Methods: SW8260C

Location	RINSE BLANK
Date Collected	7/24/2017
Time Collected	1:40 PM
Dibromochloromethane	<1
Dibromochloropropane	<1
Dichlorodifluoromethane	<1
Ethylbenzene	0.55 J
Freon 113	<1
Isopropylbenzene	<1
m + p Xylene	1.7
Methyl acetate	<5
Methyl Ethyl Ketone	<5
Methylene Chloride	<1
o-Xylene	0.51 J
Styrene	<1
t 1,3 Dichloropropene	<1
t butylmethylether	<1
Tetrachloroethene	<1
Toluene	3
Total BTEX	6
trans-1,2-Dichloroethene	<1
Trichloroethylene	<1
Trichlorofluoromethane	<1
Vinyl Chloride	<1

Notes:
J - Indicates an estimated value below laboratory reporting limits.